



2022

FINAL PROGRAM

OFFICIAL MEDIA PARTNERS



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Official AMPP
Conference
App!



Scan QR Code

Trenton offers three Wax-Tape® brand anticorrosion wrap systems.

High-quality, easy-to-apply wraps that protect irregularly shaped fittings and require minimal surface preparation.



Belowground applications

Wax-Tape® #1

Anticorrosion Wrap:

A very durable wrap that uses a thick, non-stitch bonded synthetic fabric and has no clay fillers, so it stays conformed to irregular profiles. The wrap requires no abrasion blasting, can be backfilled immediately and is compatible with cathodic protection.



Aboveground and belowground applications

Wax-Tape® #2

Self-Firming Anticorrosion Wrap:

A unique, microcrystalline-wax-saturated wrap that slowly firms up to provide excellent aboveground and belowground protection. Comes in a variety of colors and usually requires no outerwrap.



High-temperature applications

Wax-Tape® HT-3000

High-Temperature Anticorrosion Wrap:

Designed for operating temperatures up to 230°F (110°C), Wax-Tape® HT-3000 wrap can be used on high-temperature oil and gas piping, on compressor station discharge piping, beneath thermal insulation and in high ambient temperature conditions.

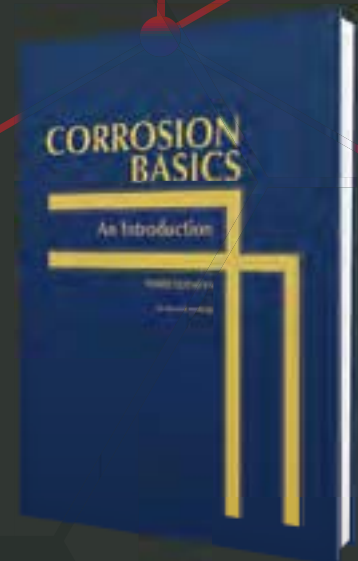
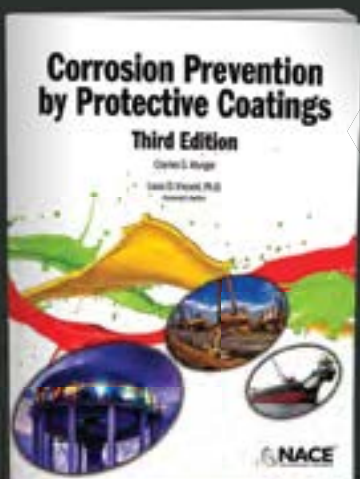
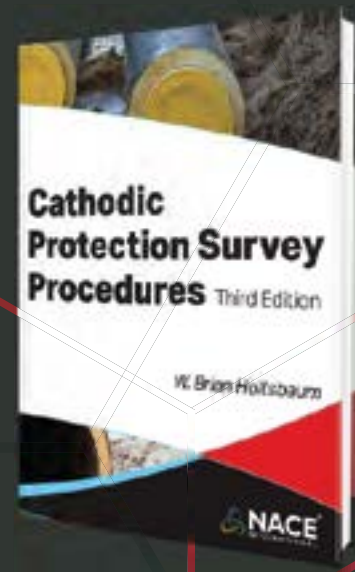
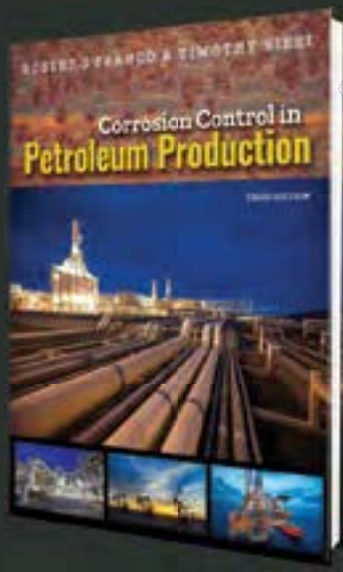
Only Trenton offers Wax-Tape® brand anticorrosion wrap systems, with primers, fillers, wraps and outerwraps.

TRENTON
ANTICORROSION MATERIALS

www.trentoncorp.com

Stock up on your corrosion and coatings resources.

The AMPP Technical Library has over 100 titles dedicated to protective coatings and corrosion control.



Visit the AMPP Bookstore Kiosks



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PROGRAM COMMITTEE**

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Welcome

Message from the Chairs



On behalf of the board of directors of AMPP and the AMPP Global Center, it is our pleasure to invite you to AMPP's inaugural Annual Conference + Expo in San Antonio, Texas, USA. From informative programs and workshops to exhibits and networking, this conference brings you the very latest information on materials, corrosion and coating trends, best practices, and products. AMPP's conference will be our industry's largest event after nearly two years, and we're truly excited to reconnect with old friends and network with industry peers. Whether you are focused on corrosion, coatings, materials, or seeing new technologies from around the world, you will find everything you need in one place.

The technical program, with 41 symposia, will feature paper presentations on a wide range of corrosion and coatings topics, including corrosion management, marine corrosion, coatings failure, cathodic protection and much more.

Our Expo features more than 350 companies displaying the latest in corrosion control and protective coatings. For a hands-on interactive experience, be sure to stop by the coatings experience or the cathodic protection (CP) test field in the exhibit hall. The new AMPPiTheater will feature topical presentations ranging from sustainability, data capture technology, titanium grade selection, health hazards in the coatings industry and more.

No matter what part of the world you live in, these past two years have been challenging. We all have missed so much both personally and professionally, yet through it all our industry has been resilient. There is a lot that has happened and a lot to catch up on.

Along with the boards and AMPP staff, we welcome you to AMPP's Annual Conference + Expo!

Sincerely,

Sam Scaturro
Chair, AMPP

Joyce Wright
Chair, AMPP Global Center

AMPP Annual Conference + Expo

MARK YOUR CALENDARS!

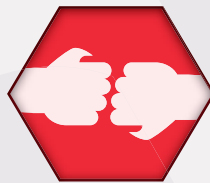
March 19-23, 2023

Denver, Colorado

Its never too early to plan to participate at AMPP Annual Conference + Expo 2023 the leading global source of knowledge, innovation, networking, and collaboration for those in the coatings and corrosion industry.



Learn the latest from industry experts at technical symposia and forums. Earn professional development hours (PDH) and try out the latest coating and cathodic protection products at live, hands-on demonstrations.



Network in person with hundreds of industry professionals and experts. Attend networking events, participate in standards committee meeting and planning sessions, and check out the exhibitor floor where more than 450 vendors showcase products and solutions.



Participate in the EMERG Student Outreach Program as a student or a mentor and be a part of the future of the coatings and corrosion industry!

See you in 2023!

Whether you attend for one day or all week, the AMPP Annual Conference + Expo gives you the knowledge and connections you need to grow your career.



1000+
hours of technical
education



15
industry and
technology tracks



40+
technical symposia



300,000
square feet of exhibit space



70+
countries represented

Learn more at ace.ampp.org!



Denver, CO, United States



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AMPP Board of Directors

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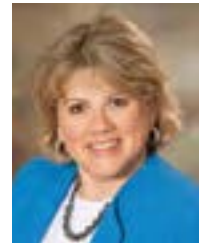
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RAFFLE GIVEAWAY!

Materials Performance, CoatingsPro Magazine, and CORROSION journal will be picking 3 lucky winners to take home some exciting prizes! Stop by the AMPP Media booth to see what you could take home.

Head over to the AMPP Media booth
and enter for your chance to win

Booth #536



AMPP Global Center Board of Directors

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AMPP Global Center Board of Directors

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Paul Vinik
GPI

Shuttle Information

Complimentary shuttle service is provided between the Henry B. González Convention Center and these hotels:

Shuttle Routes

| HOTEL | ROUTE | SHUTTLE BOARDING LOCATION AT HOTEL |
|--|-------|--|
| Fairfield Inn & Suites Alamo Plaza | 2 | Walk to Hampton, Curbside on Bowie |
| Grand Hyatt San Antonio | Walk | Walk to Convention Center |
| Hampton Inn San Antonio Downtown | 2 | Curbside on Bowie |
| Hilton Palacio del Rio | 1 | Curbside on Market |
| Homewood Suites San Antonio Riverwalk | 1 | Walk to Westin Riverwalk, curbside on Market |
| Hotel Contessa | 1 | Walk to Westin Riverwalk, curbside on Market |
| La Quinta Inn & Suites San Antonio Convention Center | 2 | Curbside on Bowie |
| Marriott Rivercenter | Walk | Walk to Convention Center |
| Marriott Riverwalk Hotel | Walk | Walk to Convention Center |
| Sonesta ES Suites San Antonio Downtown | 2 | Walk to Hampton, Curbside on Bowie |
| SpringHill Suites Downtown Alamo Plaza | 2 | Walk to Hampton, Curbside on Bowie |
| Tru by Hilton San Antonio Downtown | 2 | Walk to Hampton, Curbside on Bowie |
| Westin Riverwalk | 1 | Walk to Hampton, Curbside on Bowie |

Hours of Service

| DATE | HOURS | FREQUENCY |
|-----------------------|-----------------------|-----------------------------|
| Sunday, March 6 | 7 – 11 a.m. | Service every 30 minutes* |
| | 11 a.m. – 5 p.m. | Service every 15-20 minutes |
| Monday, March 7 | 6:15 – 9:30 a.m. | Service every 15-20 minutes |
| | 9:30 a.m. – 3 p.m. | Service every 30 minutes* |
| | 3 – 8 p.m. | Service every 15-20 minutes |
| Tuesday, March 8 | 6:15 – 9:30 a.m. | Service every 15-20 minutes |
| | 9:30 a.m. – 3:30 p.m. | Service every 30 minutes* |
| | 3 – 7 p.m. | Service every 15 minutes |
| Wednesday, March 9 | 6:15 – 9:30 a.m. | Service every 15-20 minutes |
| | 9:30 a.m. – 3 p.m. | Service every 30 minutes* |
| | 3 – 7 p.m. | Service every 15-20 minutes |
| Thursday, March 10 | 6:15 a.m. – 1 p.m. | Service every 15-20 minutes |
| | 1 – 5:30 p.m. | Service every 30 minutes* |

* Departs convention center every 30 minutes on the hour and half-hour. Schedule may vary due to traffic & weather conditions. Last bus leaves from hotels 60 minutes prior to end time with no return service.



For Shuttle Information & Special Assistance: **(310) 466.4699**

Please call at least 60 minutes prior to desired pick-up time.

Opening Reception

Henry B. Gonzalez Convention Center
Sunday, 3/6 | 5:00 p.m. – 8:00 p.m.

Continuous shuttle between select official AMPP hotels and the Henry B. Gonzalez Convention Center

EMERGING Leaders Bash

Aztec Theatre
Tuesday, 3/8 | 4:30 p.m. – 11:30 p.m.*

30 minute shuttle service between select official AMPP hotels and the Aztec Theater

*Last shuttle departs from Aztec Theater at 11:00 p.m.

AMPP Honoree Night

Grand Hyatt
Wednesday, 3/9 | 5:45 p.m. – 10:30 p.m.*

Continuous shuttle between select official AMPP hotels and Grand Hyatt

*Last shuttle departs from Grand Hyatt at 10:30 p.m.

Transportation Managed By: Production Transport

2 DECADES OF COVERAGE

YEARS
20
CoatingsPro
MAGAZINE

As *CoatingsPro Magazine* commemorates its 20th year, we celebrate by acknowledging the many successful projects of our industry's coatings contractors.

Commemorate this event with us starting at Coatings+ and throughout 2022.

CoatingsPro's decades of success are a testament to the important work and support of our readers, editorial contributors, and advertisers.



Learn more about this special milestone at
www.coatingspromag.com/Celebrate20

General Information

AMPP Business Center | Level 2, Room 209

The Business Center is fully equipped to handle all your copying, printing, and scanning needs. Office supplies available for use. Office hours are open each day from 7:30 a.m. to 5 p.m.

Convention Center Accessibility

Henry B. González Convention Center is committed to accommodating the needs of individuals with disabilities. The Center complies with all federal ADA laws. If you have any special requirements, please contact customersupport@ampp.org for additional assistance. For assistance by phone please call 1-800-797-6223 or +1 281-228-6200 for international callers.

Corporate Lounge | Hall 4 West Registration

The Corporate Lounge offers qualifying corporate member representatives specialized services and an oasis for conducting business while at conference. Guests can reserve meeting rooms, check their email, or just relax between meetings.

Lounge Hours:

Sunday, March 6..... 7:30 a.m. to 5 p.m.

Monday, March 7 7:30 a.m. to 5:30 p.m.

Tuesday, March 8..... 7:30 a.m. to 5:30 p.m.

Wednesday, March 9..... 7:30 a.m. to 5:30 p.m.

Thursday, March 10 7:30 a.m. to noon

Dress Code

The dress code for all official conference activities is business casual.

First Aid Office | H38 - Exhibit Hall 4A under escalators

The first aid room contains essential first aid supplies, is staffed by first aid representatives, and will be available to all conference attendees during regular conference hours.

If you experience or observe a medical emergency while at Henry B. González Convention Center, call +1 210-972-9711.

Guest Program

The Guest Program is a social program designed for the enjoyment of the guests of conference registrants. Guest program registration does not give attendees access to any technical symposia or standards committee meetings. Program details and locations are listed on pages in the conference schedule.

Headshot Station | Level 2, Across Room 217A

Did you know that LinkedIn profiles with headshots get 21 times more views than profiles without a photo? Stop by the Headshot Station to update your look and professional profile anytime Tuesday between 8 a.m. to 5 p.m.

This is your opportunity to update your LinkedIn profile or web page bio (personal, corporate, non-profit) and make a lasting first impression!

Sponsored by



Information Kiosk | Main Lobby

Need directions to your next meeting or have a question about the conference? AMPP staff will be available to help you navigate your way or answer general conference questions.

Lost and Found | Registration Desk in Main Lobby

Items that are found can be turned into the Registration Desk.

Luggage Check | Main Lobby

Baggage check will be available in the Main Lobby next AMPP Registration in the Henry B. González Convention Center

Hours of operation:

Wednesday, March 9..... 7:30 a.m. to 5 p.m.

Thursday, March 10 7:30 a.m. to 3 p.m.

Mobile App & Virtual Platform

The mobile app and virtual platform are synced as one. You can access the AMPP Annual Conference + Expo virtually through www.swapcard.com or using the conference mobile app. Full conference registrants receive complimentary access to the platform for on-demand content.



Mother's Room

Room 1212 (Lobby Corridor between Hall 3 & Hall 4A) and Room 2137 (Level 2 next to Room 215)

Nursing mothers may access this room to pump breast milk or nurse their child in a private and comfortable setting.

General Information

Professional Development Hours (PDHs) Station

Main Lobby

Earn PDHs in technical meetings, forums, and symposia you attend. Print out your personalized PDH certificates at the PDH Station located by Registration in the Main Lobby.

For certificates, please log on to www.ampp.org/pdh. Search for or browse to select the sessions you attended, and then email or print your certificate! PDHs will be available online for six months after the conclusion of the conference, accessible from your AMPP profile. Certificates are based solely on the information provided to AMPP at the time of printing.

Sponsored by



Press Room | Room 223

Members of the working press may use the press room as a workspace Monday through Wednesday from 8 a.m. to 5 p.m. and Thursday from 8 a.m. to noon.

Any photographs or recording for radio, television and online broadcasting is allowed unless a particular exhibitor, speaker or presenter expressly prohibits it. Any crew member(s) accompanying a reporter for these purposes will also require a press badge.

Conference Proceedings

Access, search, and download all conference proceedings both online and via USB flash drive. If you purchased a Full-Conference Advance Registration or Advance Student Registration, your complimentary USB flash drive can be picked up at the AMPP Bookstore in the Main Lobby. For those who did not purchase an Advance Registration Full-Conference pass, USBs will be available for purchase at the rate of \$149 USD at the AMPP Registration.

Online access to papers will be available starting April 2022, at www.ampp.org, click 'My Account' at the top of the webpage and select 'Downloadable Products' from the left menu.

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Publication Bins

Complimentary issues are available from the following publications:

- BIC Magazine
- Coatings Pro Magazine
- Gas Processing & LNG
- H2Tech
- Hydrocarbon Engineering
- Hydrocarbon Processing Magazine
- Inspectioneering
- JPCL
- Marine News
- Maritime Reporter
- Materials Evaluation
- Materials Performance Magazine
- MP Buyers Guide
- North American Energy Pipelines Oil & Gas Pipeline
- World Pipeline
- World Pipeline Coatings & Corrosion Supplement

Registration Hours

| | |
|--------------------------|------------------------|
| Sunday, March 6..... | 7:30 a.m. to 6:30 p.m. |
| Monday, March 7..... | 7 a.m. to 6:30 p.m. |
| Tuesday, March 8..... | 7 a.m. to 5 p.m. |
| Wednesday, March 9..... | 7:30 a.m. to 5 p.m. |
| Thursday, March 10 | 7:30 a.m. to noon |

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We protect and beautify the world™

Speaker Ready Room | Room 215

Available for presenting authors who would like to rehearse or preview their pre-submitted presentations (technical and research symposium authors only). An audio-visual company representative will be on hand to help upload chair-approved PowerPoints and address speakers' concerns.

Hours:

| | |
|--------------------------|------------------|
| Sunday, March 6..... | 2 to 5 p.m. |
| Monday, March 7..... | 7 a.m. to 5 p.m. |
| Thursday, March 8..... | 7 a.m. to 5 p.m. |
| Wednesday, March 9..... | 7 a.m. to 5 p.m. |
| Thursday, March 10 | 7 a.m. to noon |

General Information

Wi-Fi Access

Complimentary WiFi is available to all attendees in the exhibit hall and most common areas of the convention center. Please use the following to login:

WiFi Name: AMPP_2022

Password (case sensitive): iupat-fti

Sponsored by



IUPAT Coatings Lounge | Meeting Corridor near Room 211

Looking for a comfortable and quiet place to get some work done or review meeting notes? Stop by IUPAT's Coatings Lounge, which is fully equipped with electrical outlets to charge your devices. The lounge is open to all attendees and snacks will be served on Wednesday on a first come, first served basis.

Sponsored by



AMPP Bookstore | Main Lobby

The AMPP Bookstore will be fully Print-On-Demand as part of the new AMPP digital printing process.

What does this mean for books you want to buy while at the show?

Instead of a book(s) being shipped from the AMPP warehouse to the conference in San Antonio for purchase, books will be printed upon your order on site at a self-serve kiosk and sent directly to you.

You will not have a physical book to take with you from the store, which will free up space in your luggage, but the store will have physical sample books to look at and review before purchasing.

Visit store.ampp.org or contact Customer Support 800-797-6223 or 281-228-6223 for more information.

AMPP Booth | Booth # 340

The AMPP booth offers information on all things AMPP, including membership, education and certification programs, the QP Accreditation program, publications, conferences & events, industry information, standards and more.

AMPP Certification Lounge | Room 222

As a valued member of the AMPP certified community we have a special lounge setup just for you. All active certified individuals are welcome to come by and claim a free gift, put your feet up, enjoy a beverage and/or snack, and chat with the team. Certification staff will be on hand to answer questions and verify information around your certification, upcoming renewal, or other questions related to your credential.

Certification Lounge Hours:

Monday, March 7 through

Wednesday, March 9.....9 a.m. to 5 p.m.

AMPP Sales Office | Behind AMPP Booth #340

Looking to reach the decision makers in the global corrosion and protective coatings industries? The AMPP Sales Office provides you with marketing solutions. Get information on AMPP's upcoming events, media options and much more.

AMPPCares Donation Drive | Main Lobby near the Info. Kiosk

AMPP's volunteer day allows members to give back to our hosting community during conference. This year AMPP's members team up to volunteer at St. Jude's Ranch for Children (SJRC Texas), providing the local community with a sustainable activity to its development and care. Throughout the conference week, donate items needed by the institution and drop them off at registration. All proceeds benefit SJRC, and staff will drop off at the end of the week.

Items in need:

- Gift Cards - Visa, Walmart, Ross, Target, HEB
- Hygiene items: shampoo, conditioner, deodorant, hairbrushes
- House items: bowls, plates, silverware, cups (no mugs), pots, pans, big bowls, blenders
- Bed in a bag: Twin size
- Snack and drinks



Featured Keynote Speaker

The Honorable Ray Lahood

16th U.S. Secretary of Transportation

Monday, March 7 | 3:30 - 4:30 p.m.

Lila Cockrell Theater
Henry B. Gonzalez Convention Center
San Antonio, TX

Former Secretary of Transportation, Ray Lahood will provide an in-depth analysis of the current state of infrastructure and how the 2021 U.S. Infrastructure and Jobs Act will affect the corrosion and protective coatings sector. Lahood will share insights into how the U.S. government prioritizes infrastructure projects and what industry professionals need to know about existing policies and sustainability initiatives.



Scan to
learn more



Policies and Procedures

Code of Ethics

THE FUNDAMENTAL PRINCIPLES

Members uphold and advance the integrity, honor, and dignity of the members' profession by:

- Using their knowledge and skill for the enhancement of human welfare.
- Being honest and impartial, and serving with fidelity the public, their employers, and clients.
- Striving to increase the competence and prestige of the materials protection and performance profession.

THE FUNDAMENTAL CANONS

1. Uphold the safety, health, and welfare of the public in the performance of their professional duties.
2. Represent areas of competence and build reputation based on merit of services.
3. Strive for continuous professional development and foster development of others in field.
4. Serve in professional matters for AMPP, employer, and/or client as faithful agents or trustees and shall avoid conflicts of interest.
5. Members shall associate only with reputable persons or organizations.
6. Members shall issue public statements only in an objective and truthful manner.
7. Act with integrity and honesty in all professional endeavors and be forthcoming with concerns of unethical behaviors.
8. Foster behaviors of respect, value diversity of our members, staff, partners, customers, and suppliers, and strive to promote recognition and participation by individuals regardless of differences.
9. Harassment, including but not limited to cultural, religious, or sexual, by or against any employee, member, officer, director, or other volunteer, vendor, or customer; and such conduct will not be permitted or condoned.

Anti-Harassment Policy

AMPP is committed to providing an environment free of sexual harassment (which includes harassment based on gender, pregnancy, childbirth, or related medical conditions), as well as harassment based on such factors as race, color, religion, national origin, ancestry, age, physical disability, mental disability, medical condition, marital status, sexual orientation, gender identity, gender expression, workers' compensation leave, veteran status, or any other condition or characteristic protected by law. We expect all participants at AMPP Annual Conference + Expo to abide by this Anti-Harassment Policy in all venues at AMPP Annual Conference + Expo, including ancillary events and official and unofficial social gatherings.

- Exercise consideration and respect in your speech and actions.
- Refrain from demeaning, discriminatory, or harassing behavior and speech. Be mindful of your surroundings and of your fellow participants.
- Alert AMPP staff if you notice harassment. If you are being harassed, notice that someone else is being harassed, or have any other concerns, please contact Lesley Martinez at +1 832-651-7229 on-site immediately.

Alcohol and Drug Policy

AMPP and the AMPP Global Center are committed to the health and well-being of its staff, members, customers, event participants, and vendors. This Policy addresses the availability and consumption of alcoholic beverages at AMPP affiliated events. Those who choose to drink alcoholic beverages at AMPP-affiliated events are expected to do so legally and in moderation and are expected to act responsibly and behave professionally.

The sale or distribution of alcoholic beverages at any AMPP affiliated event must be conducted through a licensed provider. Non-alcoholic beverages are required at all affiliated events at which alcohol is served. Alcohol should cease being served to allow for safe consumption before the designated time for close of the function. Non-alcoholic beverages may remain available at this time. Advertisements shall not highlight the availability of alcohol at any affiliated event. Advertising shall not promote consumption of alcohol.

International Communities are not covered under AMPP insurance programs and should conform to all applicable regulations. Appropriate insurance coverage is recommended. Those international Communities not explicitly covered under AMPP insurance programs must indemnify and hold harmless

AMPP for any and all sponsored events where alcohol is distributed and consumed. For all affiliated events where alcohol is available, the sponsoring group will endeavor to establish agreements establishing reciprocal indemnification and hold harmless responsibilities and insurance requirements with the venue.

Any member, sponsor, vendor or exhibitor at an affiliated event wishing to sell or distribute alcohol must conform to this Policy and any other directives made by AMPP staff.

The use of alcoholic beverages or other controlled substances by any member, sponsor, vendor or exhibitor at an AMPP affiliated event shall comply with federal, state and local laws. Members, staff, vendors and customers at AMPP affiliated events shall conform to this Policy and all other applicable policies, including, but not limited to, the Code of Ethics and Health, Safety, and Risk Management, current versions of which are incorporated herein by reference.

Policies and Procedures

Individuals who violate this Policy may be subject to the disciplinary procedures, including, but not limited to, suspension or loss of membership, disbarment from future AMPP affiliated events and/or other sanctions as deemed appropriate.

Communities or other AMPP affiliates who violate this Policy may be subject to the disciplinary procedures, including, but not limited to, suspension or loss of affiliation, disbarment from future affiliated events and/or other sanctions as deemed appropriate by the Association or Center Board of Directors. Violations of this Policy may be addressed by the Association or Center Board of Directors or the Ethics and Professional Practice Committee, at its sole discretion.

Minor Policy

Children under the age of 15 are not permitted in the Expo, meetings, and technical presentations. Children over the age of 15 must be registered as guests and always wear badges while in the convention center. To accommodate nursing mothers, the following will apply:

1. Expo attendance: Nursing infants will be allowed in the Exhibit Hall during show hours only and must always be carried by a registered AMPP attendee either in his or her arms or in a front baby carrier (NO STROLLERS PERMITTED). Everyone who attends the exhibition must be registered and have a badge. Badges for minors 15 and older are free and available on site at the registration desk. Minors between 15 and 18 years of age must be accompanied by an adult at all times. Guardians are asked to help maintain a professional, disturbance-free exhibition environment.
2. Meetings and technical presentations: To provide all AMPP attendees an optimal learning environment, minors and guests are not permitted in technical presentations. Those attending these sessions must be registered for the conference and show the appropriate badge.
3. Exhibitors: Exhibitor booth staff must be registered as such and be 15 years of age or older. The nursing infant rule does not apply to exhibitors. No child under the age of 15 may be in an exhibit booth during setup, tear-down, or show hours. Anyone in violation of these rules will have their booth closed and will not be provided a refund.
4. Strollers and rolling carts are not allowed in the Exhibit Hall at any time.
5. Childcare is not available at the convention center; however, your hotel concierge may be able to assist you. Please note that AMPP has no affiliation with these services.

Mobile Phone Policy

As a courtesy to the speakers and your fellow attendees, please turn off all mobile phones during meetings and sessions.

Consent to Use of Photographic Images, Audio and Video Recordings

AMPP may elect to take photographs and/or make audio and visual recordings of the event, and participants grant to AMPP the absolute right and permission to use any such photographs or recordings that may be taken during the event for any purpose in its sole discretion.

Attendees, exhibitors, and visitors to AMPP Annual Conference + Expo are not permitted to make audio or video recordings of sessions, presentations, activities, or other events unless expressly so authorized by AMPP and the subjects of the recording.

Health and Safety

All AMPP Conference + Expo participants must sign a COVID-19 Liability Wavier when registering. If you are feeling unwell or experiencing any symptoms of COVID-19, we recommend do not attend the conference and seek medical attention if necessary. In the event of an emergency, AMPP staff and/or convention center staff will provide conference attendees with any necessary information and instructions.

Right to Deny or Remove

We reserve the right to deny registration or admission to or remove any party from the conferences and expo, at our sole discretion.

“

The most important aspect of this conference is sharing my experience and know-how to younger generations. I enjoy most the technical discussion and research-oriented topics AMPP has to offer.

- R. Prasanna, Essar India

”

Session Types

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

● Administrative

Members of administrative committees meet to discuss and plan for various functions of AMPP. These committees are made up of AMPP members, with a headquarters staff liaison and other staff members.

● AMPPiTheater

These are unique presentations on materials protection through corrosion control and protective coatings. This mini auditorium in the Exhibit Hall will feature industry leaders and AMPP staff who will facilitate interactive discussions on infrastructure and asset protection.

● Forums

These are generally panel discussions made up of industry leaders that focus on a subject. They are typically consist of informal presentations as well as opportunities for questions and answers.

▲ ISO meetings

AMPP administers six ANSI-accredited U.S. Technical Advisory Groups (TAGs) to International Organization for Standardization (ISO) technical committees. The TAGs review drafts of ISO standards and submit the U.S. vote. There is also a Maintenance Panel for NACE MR0175/ISO 15156, a NACE/ISO standard, and sometimes ISO technical committees meet at the conference.

● Networking

These are social events geared at the exchange of information in an informal setting.

● Other Meetings

These are meetings that do not fall under any of the meeting types listed above, or under any broad heading.

▲ Research in Progress (RIP)

Research in Progress (RIP) symposia provide a forum for the presentation of information and ideas derived from current or recently completed research and provide opportunities for discussion.

▲ Research Topical Symposia (RTS)

The RTS provides a forum for presentation and discussion of corrosion and coatings topics that are of significant business impact, but cannot be resolved because of gaps in scientific understanding. The specific objective is to span the communications gap between the research and corrosion engineering and coatings communities.

● Student Poster Session

The Student Poster Session is the technical conference forum for the youngest members of the corrosion and protective coatings field.

▲ Standards Committee Meetings

AMPP Standards Committees establish internationally recognized standards for coatings and corrosion prevention and mitigation in many industry sectors, utilizing an ANSI-accredited consensus development process.

▲ Technical Symposia

These are formal technical sessions in which authors of the technical conference papers present their work. Symposia allows you to hear the latest industry knowledge and methods before it's available in popular literature. This traditional format includes a Chair and Vice Chair and will be included in the formal call for abstracts. Authors explain how their work will help advance and provide innovative technologies to the coatings and corrosion industries and/or will serve to introduce new information to the existing body of literature. A technical paper is required and will be published in the conference proceedings.

▲ Workshops

These are sessions that impact specific, practical knowledge on a single subject. Workshops provide useful member services such as training and skills or professional and employment development and support.



GET CONNECTED!

Exclusive Networking with the New AMPP Connect

When CORROSION and Coatings+ joined forces, AMPP created an all-new way for industry buyers and sellers to meet and discuss corrosion mitigation products and services for those in the coatings and cathodic protection industry.

AMPP Connect provides 15-minute, one-on-one meetings between cathodic protection and coatings vendors and industry professionals in a personal, face-to-face setting. Get matched with potential business partners that are targeted to your specific needs and goals.

Benefits for buyers:

- Free full conference registration to AMPP 2023 (\$1,159 Value).
 - Includes access to conference networking events and conference proceedings, opportunity to earn Professional Development Hours, etc.
 - Full conference registration will give you access to sessions, workshops and more!
- \$700 travel stipend. To be paid once all 15 meetings have been completed.
- Access to a dedicated lounge area in exhibit hall.

Benefits for seller:

- Opportunity to have 15, 15-minute meetings with vetted and qualified buyers.
- Contact information of all participating buyers.
- Multiple networking opportunities to meet with buyers.

Interested in learning more?

Visit with a Sales Representative on site or at sales@ampp.org.

We'll see you at AMPP Connect 2023!

ace.ampp.org

 **AMPP**[™]
ANNUAL CONFERENCE + EXPO
MARCH 19-23, 2023 | DENVER, COLORADO

Saturday, March 5

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

AMPPCares Volunteer Day

8:30 a.m. to 1:30 p.m. | St. Jude's Ranch for Children

AMPP's Volunteer Day allows members to give thanks to our host city! This year, AMPP's members team up with St. Jude's Ranch for Children (SJRC Texas) to provide the local community with a sustainable activity to its development and care. St. Jude's Ranch for Children in San Antonio, TX, cares for children and families who have been affected by trauma, abuse and neglect, and have been removed from their homes by the Department of Family and Protective Services.

Throughout the conference week, donate items needed by the institution and drop them off at the main lobby near the Info Kiosk. All proceeds benefit SJRC, and staff will drop off at the end of the week.

Items in need:

- Gift Cards - Visa, Walmart, Ross, Target, HEB
- Hygiene items: shampoo, conditioner, deodorant, hairbrushes
- House items: bowls, plates, silverware, cups (no mugs), pots, pans, big bowls, blenders
- Bed in a bag: Twin size
- Snack and drinks



Crew Brew

6 to 10 p.m. | Pat O'Brien's

As a welcome to the first AMPP Annual Conference + Expo, join your fellow attendees at Pat O' Briens, located near the famous San Antonio Riverwalk. Crew Brew is a great way to make connections before the conference starts and have some fun. Tickets are \$25 online through registration and includes a drink ticket, heavy hor d'oeuvres, and exciting entertainment.

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AMPP'S FIRST HONOREE NIGHT

Recognition of Service in the Establishment of AMPP Award

Join us in honoring the members who contributed to uniting NACE and SSPC.
Celebrate the formation of the Association for Materials Protection and Performance.

Wednesday, March 09, 2022
6:00 pm – 10:00 pm
Grand Hyatt—San Antonio Riverwalk

Individual tickets are \$75 and may be purchased onsite at registration.

AMPP Awards. Honoring outstanding members. Recognizing excellence.



Sunday, March 6

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

▲ MR0175/ISO 15156 Maintenance Panel

8 a.m. to noon | Room 216

▲ Proper Use of Coatings Inspection Instruments Workshop

8 a.m. to noon | Room 208

Presented by Bill Corbett and Lake Barrett, KTA-Tator, Inc.

This workshop is modeled after the successful coatings inspection instrument use workshop presented at many SSPC Coatings + conferences. The workshop introduces participants to the primary instruments and visual guides used on a typical coating inspection project. Facilitators will encourage each participant to use the gages on sample substrates and record their results in a workbook.

● Electrochemical Techniques for Measuring Corrosion

8 a.m. to noon | Room 302 A

Presented by Jeremy Moloney, ChampionX; Jacob Ketter, Gamry Instruments; Lietai Yang, Corr Instruments; and Rob Sides, AMETEK

This Technical Information Exchange/workshop will be taught by experts who have established themselves as pioneers in their respective areas of specialty. It is anticipated that the participants of the workshop will acquire knowledge on:

- WHAT are the fundamental principles of measuring corrosion rate using electrochemical techniques;
- HOW to measure corrosion rate using electrochemical techniques in actual field conditions;
- HOW the results should be interpreted; and
- WHY measurement error of the technique should be estimated.

● Darrel D. Byerley Memorial Golf Tournament

8 a.m. to 3:30 p.m.

The Quarry Golf Course



Start your busy week off with a fun and relaxing round of golf, while networking with other conference attendees and industry professionals. Chiseled from stone, this historic course boasts amazing playing conditions, a natural wildlife habitat, and one of the most unique golf experiences in the U.S.

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- Seal for Life Industries
- Titan Corrosion Services, Inc.
- Farwest Corrosion Control Company
- Electrical and Instrumentation Unlimited (EIU)

Closest to the Pin Sponsors:

International Paint / Titan Tool

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International Paint / Titan Tool

Hole Sponsors

- | | |
|--------------------------------|---------------------------------|
| Alpine Painting & Sandblasting | National Pipeline Services, LLC |
| Brown Corrosion Services, Inc. | PAI |
| CAMS Trident | PM International Suppliers |
| DNV | Polyguard |
| General Corrosion Corporation | Titan Tool |
| GMA Garnet | Tnemec |
| Highridge Corrosion Services | Trenton Corp. |
| Matcor | WBI Energy Corrosion Services |
| MESA Products, Inc. | |

Sunday, March 6

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ SC 15 - Pipelines & Tanks

8 a.m. to 5 p.m. | Room 301 A

▲ SC 12 - Concrete Infrastructure-Day 1

8 a.m. to 3:30 p.m. | Room 211

▲ SC 06 - Process Industries

8 a.m. to 5 p.m. | Room 221 B

▲ SC 18 - Water & Wastewater

8 a.m. to 5 p.m. | Room 221 C

● Conference & Events Planning Committee (CEPC)

9 to 11 a.m. | Room 225 A

● Membership Program Committee

9 to 11 a.m. | Room 225 C

● Standards Committee Informational Meeting

9 to 11 a.m. | Room 225 D

● MP Editorial Advisory Board

10 a.m. to noon | Room 225 B

● AMPP Chapter Leadership Office

12 to 3:30 p.m. | Room 006A

Are you a new AMPP Chapter leader? Do you have questions about your new officer role or need help with the procedures and toolkits related to chapter leadership? Stop by at your convenience and have AMPP staff answer your most pressing questions.

● Publications Program Committee

1 to 4 p.m. | Room 225 B

● Standards Committee Officer Training

1 to 4 p.m. | Room 225 D

▲ TG 299 - MR0175/ISO 15156 Oversight Committee

1 to 4:30 p.m. | Room 216

▲ SC 05 - Surface Preparation

1 p.m. to 5 p.m. | Room 212

● NDT Inspection for Corrosion Detection and Evaluation

1 to 5 p.m. | Room 208

Presented by Jorge Reyna, JRSA Inspections

Using nondestructive testing (NDT) devices such as an ultrasonic thickness device, ultrasonic flaw detector, electromagnetic testing, and advanced equipment like phased array or radiographic testing makes it possible to inspect components and determine an internal corrosion grade. In this workshop we will demonstrate how this equipment works, how to interpret results, and how to use this kind of equipment in field inspections.

▲ State-of-the-Art Corrosion Inhibitors - Information Exchange

1 to 5 p.m. | Room 302 A

● Guest Reception

2 to 5 p.m. | Grand Hyatt San Antonio, Presidio B

This networking reception for registered Guest Program participants is a great opportunity to connect with other Guest Program participants over light hors d'oeuvres and drinks.

● Annual Member Meeting

4:30 to 5 p.m. | Room 224

▲ MR0175/ISO 15156 Maintenance Agency

4:30 to 5:30 p.m. | Room 216

● Opening Reception

5:30 to 7 p.m. | HemisFair Ballroom C1 and C2

The Opening Night Reception kicks off AMPP's Annual Conference + Expo, as attendees and exhibitors interact over drinks and hors d'oeuvres. Drink tickets will be provided at registration. This reception is cosponsored by Carboline and AMPP. The two organizations are bound together by a common vision of corrosion prevention, environmental preservation, and education.

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Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Speakers' Breakfast

7 to 8:30 a.m. | HemisFair Ballroom C3

Presenters for RIP, RTS, and Technical Symposia are invited to join their colleagues for breakfast on the day in which they are scheduled to present.

Guest Breakfast

7:30 to 9:30 a.m. | Grand Hyatt San Antonio, Bowie AB

Guest Breakfast is for individuals that purchase the Guest Program Registration only and are not for attendees to the conference

SC 24 - Environmental Health and Safety (EHS)/Regulatory

8 a.m. to noon | Room 221 B

Leadership From the Inside Out

8 a.m. to noon | Room 206 AB

Hosted by Stephanie Biagiotti Corey, Xcel Energy; and Kelsey May, MESA

Leadership from the Inside Out: It's tempting to view leadership through a results-driven mindset, focusing only on outcomes. But successful leadership relies on more than metrics. Diversity, inclusion, social responsibility, and ethical decision making are all crucial to a strong leadership culture.

Leadership is not just a numbers game – it's a people project. By challenging ourselves to be better leaders, we can change the world... from the inside out.

This forum will provide tools to learn how you can make a difference in your own leadership for yourself and your teams.

Presentations in this forum include the following:

Reimagining Business as a Force for Good

Presented by Kailey Dharam, Dairyland

This session will outline the Live Engaged initiative at Dairyland Electrical Industries, while discussing the broader concept of merging business and community involvement in a wholistic approach to corporate social responsibility.

How Labor & Industry Interact in an Ever-Evolving Society

Presented by Jim Williams, IUPAT

Discover the role that Labor Unions can play in raising the bar for workers, ensuring quality on the jobsite, & uplifting equality for the next generation of workers in our industry.

Putting People First at Work

Presented by Kelsey May, MESA

This session will explore the positive impact of creating inclusive, people-first policies.

To Cancel, or Not To Cancel: Navigating Microaggressions in the Workplace

Presented by Nick D'Angelo

This session will lead you through navigating instances of unconscious bias and microaggressions in the workplace while maintaining productive professional relationships.

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Pipeline Crossings: Steel-Cased, Thrust-Bored, and HDD

8 to 10 a.m. | Room 302 A

Chair: Michael Snow | Vice Chair: Cay Strother

This symposium features technical papers on road, railroad, river, wetland, etc., crossings by directional drilling, thrust boring, casing, and HDD-type pipeline crossings, etc. Techniques, cathodic protection, coatings, best practice, construction challenges, etc., are included.

Marine Coatings and Corrosion

8 to 11:30 a.m. | Room 221 D

Chair: Abdul Hameed Al-Hashem | Vice Chair: Moavin Islam

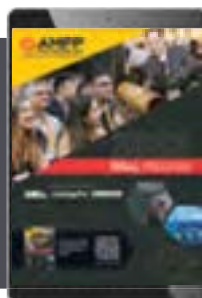
This symposium features technical papers on marine coatings along with other protective measures for marine structures such as seaports, offshore oil rigs, windmills, commercial ships, and oil tankers.

Real Time Corrosion Monitoring for Process Applications: Technology, Experiences, Case Studies

8 a.m. to noon. | Room 221 A

Chair: Xiaoji Li | Vice Chair: Evan Huang

This symposium features technical papers on real time corrosion monitoring with an emphasis on advances in technology, user experience, or case studies. All of the various techniques of real time monitoring may be presented.



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Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ Coatings and Corrosion Control for Storage Tanks

8 a.m. to 2 p.m. | Room 302 BC

Chair: Khalil Abed | Vice Chair: Mohammed Alrudayni

This symposium features technical papers on the inspection, monitoring, coating, cathodic protection, VCI, and other innovative methods of corrosion management for aboveground storage tanks.

▲ RIP - Biomedical Materials

8 a.m. to 2 p.m. | Room 214 B

Chair: Shiril Sivan Nagaraja | Vice Chair: Danieli Rodrigues

This RIP symposium will cover advancements in the biomedical field with respect to corrosion, degradation, and biocompatibility. Topics of interest include, but are not limited to: emerging materials (e.g., biodegradable alloys), fretting corrosion (e.g., orthopedic joints), device interaction with the biological environment, implant retrieval analysis, novel corrosion evaluation methods, electrochemical techniques in biosensors and active implants, and surface treatments to inhibit infection and modulate degradation. Presentations will focus on recent advances in corrosion of implants and will span a wide range of product application areas such as cardiovascular, orthopedic, neurological, and dental devices.

▲ RIP - Localized Corrosion

8 a.m. to 3:30 p.m. | Room 214 A

Chair: Jason Lee | Vice Chair: Saba Navabzadeh Esmaeely

This RIP symposium will cover fundamental studies of localized corrosion and cracking regardless of environment or material type. Topical phenomena of interest include, but are not limited to: pitting, stress corrosion cracking, corrosion fatigue, intergranular attack and crevice corrosion. Fundamental aspects of the on-going research including occluded chemistries, electrochemical techniques, metallurgical influences, and mechanistic initiation/propagation studies are of particular interest.

▲ RIP - Multi-Functional Coatings

8 a.m. to 3:30 p.m. | Room 214 C

Chair: Homero Castaneda | Vice Chair: Nikole Kucza

This RIP symposium will cover sustainable corrosion protection provided by multifunctional corrosion-resistant coatings. A multifunction/multiscale design of such coatings requires working out elaborate processing (manufacturing), internal structures, and chemical compositions. Surface coatings enhance the material performance and lifetime by providing protection from harsh environments such as high temperature, oxidizing and corrosive species, and/or erosive environments. This session includes presentations on the processing, materials

characterization, and performance of coatings produced by a wide variety of functionalities (barrier, sacrificial, inhibition, self-healing, hybrid, etc.) that encompass different manufacturing routes (including traditional and additive manufacturing).

▲ SC 16 - Oil and Gas – Downstream

8 a.m. to 3 p.m. | Room 221 C

▲ SC 01 - Cathodic/Anodic Protection

8 a.m. to 3:30 p.m. | Room 301 A

▲ SC 04 - Linings & Internal Coatings

8 a.m. to 3:30 p.m. | Room 212

▲ SC 12 - Concrete Infrastructure-Day 2

8 a.m. to 3:30 p.m. | Room 211

▲ Flow Assurance in Oil and Gas Productions - Day 1

8 a.m. to 3:30 p.m. | Room 301 BC

Chair: Qiwei Wang | Vice Chair: Zhengwei Liu

This symposium features technical papers on flow assurance, which is critical for the safe, economic, and efficient oil and gas recovery and processing. This symposium will present the new advancements in understanding and technical solutions related to corrosion, scale and other oilfield chemistry issues in hydrocarbon production and transportation, covering modeling, laboratory investigations, and field case studies.

▲ Advances in Materials for Oil and Gas Production - Day 1

8 a.m. to 3:30 p.m. | Juan O'Gorman Room 005

Chair: Filippo Cappuccini | Vice Chair: Julio G. Maldonado

This symposium features technical papers on present advances in materials technology and research for oil and gas. The focus is on new and improved metallic materials and applications. This includes consideration and evaluation of the material's performance in its envisaged exposure environment.

▲ Advanced Protective Coating Technology - Day 1

8 a.m. to 3:30 p.m. | Room 210

Chair: Benjamin Chang | Vice Chair: Matt Dabiri

This symposium features technical papers that cover the following themes: (1) rust creepage mechanism, (2) cathodic disbondment mechanism, (3) coating blister mechanism, (4) CUI coatings, (5) salt decontamination chemicals, (6) offshore coating evaluation methods, (7) offshore windmill coatings, (8) nanotechnology, and (9) passive fire protection.

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ Control of Corrosion in Oil and Gas with Inhibitors - Day 1

8 a.m. to 3:30 p.m. | Room 217 C
Chair: Zineb Belarbi | Vice Chair: Pierre Mékarbané

This symposium features technical papers on the study of the application of corrosion inhibitors and/or scale/deposit inhibitors and their mechanisms of inhibition.

▲ Fouling and Scaling in IWS: Mechanisms, Research Methods, and Control

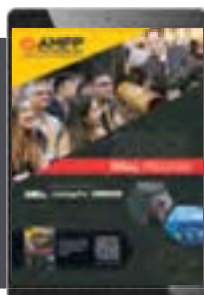
8 a.m. to 3:30 p.m. | Room 217 A
Chair: Zahid Amjad | Vice Chair: Tao Chen

This symposium features technical papers related to mechanisms of fouling and mineral scaling, traditional and novel research methodologies, modeling and monitoring approaches, real cases and failure analysis, as well as strategies to control fouling and scaling in industrial water systems (IWS). The IWS may include boiler, cooling, desalination, geothermal, oil and gas production, sugar processing, and wastewater treatment. Contributions on the impact of process variables such as temperature, pH, water quality, soluble and insoluble impurities, and suspended matter on the performance of water treatment additives such as scale inhibitors, dispersants, biocides, etc., may also be included. Papers may also include recent developments in removing scales from equipment surfaces.

▲ Improving Atmospheric Corrosion Simulation and Stimulation through Modeling and Controlled Exposures

8 a.m. to 3:30 p.m. | Room 217 B
Chair: Sean Fowler | Vice Chair: Erica Macha

This symposium features technical papers related to mechanisms of fouling and mineral scaling, traditional and novel research methodologies, modeling and monitoring approaches, real cases and failure analysis, as well as strategies to control fouling and scaling in industrial water systems (IWS). The IWS may include boiler, cooling, desalination, geothermal, oil and gas production, sugar processing, and wastewater treatment. Contributions on the impact of process variables such as temperature, pH, water quality, soluble and insoluble impurities, and suspended matter on the performance of water treatment additives such as scale inhibitors, dispersants, biocides, etc., are included.



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▲ Mechanisms of Localized Corrosion

8 a.m. to 3:30 p.m. | Room 217 D
Chair: Mariano Kappes | Vice Chair: Helmuth Sarmiento Klapper

This symposium features technical papers that discuss mechanisms, traditional and novel research methodologies, modeling and monitoring approaches, real cases, and failure analysis, as well as strategies to control localized corrosion.

▲ Pipeline Integrity - Day 1

8 a.m. to 3:30 p.m. | Room 304 ABC
Chair: Tod Barker | Vice Chair: Pabba Sitish Kumar

This symposium features technical papers on all aspects of pipeline integrity that can include pipeline integrity management, inspection, assessment, mitigation, operational aspects, regulatory issues, present and upcoming technologies, methods, experiences, and case studies, be it new technologies, new inspection methodologies, or new analyses.

● Premature Coatings Failures Forum

8:30 a.m. to noon | Mayor Cockrell Room 004
Presented by Mike O'Brien, Mark 10 Resource Group, Inc.

Premature coating failures continue to cost asset owners, paint manufacturers, fabricators, contractors, shipbuilders, and others substantial amounts of unbudgeted money each year. Most of these failures are preventable if the proper principles are employed for selecting, applying, and inspecting the coatings. This tutorial is based on hundreds of real-life coating failures investigated by the presenter during his 40 years in the coating industry. This practical and informative tutorial is presented using many real-life case histories. It addresses coating failures that occur on steel, concrete, hot-dip galvanizing, and ductile iron substrates and explains the important properties for each of these substrates to consider when selecting and applying coatings to them. Failures involving most of the commonly applied coatings, including, but not limited to, inorganic zinc, organic zinc, epoxy, polysiloxane, polyurethane, water-based acrylic, and polyurea are discussed and pictures of the actual failures with these coating types are shown. NEW—When a premature coating failure occurs, it is important to investigate it using proper principles, techniques, and procedures.

During the presentation this year, the tutorial will include a new section on some basic principles to employ when investigating a premature coating failure, including how to prepare for a coating failure investigation, how to conduct the on-site investigation, how to determine the laboratory testing to perform, and how to analyze the results and write the report.

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Student Poster Orientation

9 to 10:30 a.m. | HemisFair Ballroom C3

● AMPP Chapter Leadership Office

9 to 11:30 a.m. | Room 006A

Are you a new AMPP Chapter leader? Do you have questions about your new officer role or need help with the procedures and toolkits related to chapter leadership? Stop by at your convenience and have AMPP staff answer your most pressing questions.

▲ Coating Failures

9 a.m. to noon | Room 213

Chair: Robert Lauer | Vice Chair: Amjad Al Kharusi

This symposium features technical papers on protective coating failure analysis and guidance for diagnosing protective coatings failures for the industry.

● Accreditation Program Committee

10 a.m. to noon | Room 225 B

● CORROSION Journal Editorial Board

11:30 a.m. to 1:30 p.m. | Room 225 A

▲ Corrosion Issues in the Pulp, Paper, and Biomass Conversion Industries

1 p.m. to 3:30 p.m. | Room 302 A

Chair: Catherine Noble | Vice Chair: Jiheon Jun

This symposium features technical papers related to the pulp, papermaking, and biomass conversion processes. Topics can include new materials, case studies, or trends in corrosion issues in the industry.

● Area Workshop

1 to 2:30 p.m. | Room 224

The AMPP Membership Program Committee is hosting an Area Workshop. The core purpose of this meeting is to solicit feedback for defining the purpose and function of Areas in AMPP. In addition, you will get the opportunity to share knowledge, network with your peers.

We encourage all AMPP Chapter leaders to attend this meeting.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

▲ Coating Failure Investigation Workshop – Why Did this Happen?

1 to 3:30 p.m. | Room 208

Presented by Lake Barrett, KTA-Tator, Inc.; Valerie Sherbondy, KTA-Tator, Inc. and Jay Helsel, KTA-Tator, Inc.

One of the most interesting things about coatings is the way that they fail. Coating materials are designed to work in many environments and stay in place for many years. If the coatings do not perform as expected, then there are often lengthy discussions and hypotheses about the reasons for coating failure. While presenting a hypothesis is a starting point, that does not provide the fix. Remediation of the failure involves figuring out why the initial coating did not perform, then a designing plan to fix it or designing a specification that provides a path to successful performance. Unfortunately, the fix will cost money – usually money that was not in the budget, so someone will have to PAY. The two driving factors for a failure investigation are to determine the correct fix for the issue and to determine which party will pay for the fix.

Although there are often points of contention, the failure investigation should be based on real information and facts that lead to an understandable and defensible conclusion. The process is multi-faceted and can resemble more of a maze than a path of discovery.

This presentation will follow three failure investigations (Pipeline, Tank Lining & ?) through the maze of background information, a site visit to collect information and samples, and a forensic investigation in the laboratory. All these pieces of information are used to guide the investigator through the maze to the final conclusion. The participants will be able to choose their path of investigation by picking from the data selections. Using the information collected, the participants will determine what went wrong, who is at fault, and how to remedy the situation so that failure does not reoccur.

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● The Enbridge Case: The Value Add of an Asset Owner's Corrosion Management Audit Process Forum

1:30 to 2:30 p.m. | Room 206 AB

Presented by Elaine Bowman, AMPP; Valerie Sherbondy, KTA and Jay Helsel, KTA

This forum will share the benefits and value Enbridge realized after conducting a critical, inward-looking audit of their asset integrity program utilizing the IMPACT PLUS audit process. Through the audit process, Enbridge measured the maturity of their asset integrity activities and also benchmarked their results against other organizations in the corrosion industry. Even though there are very structured processes and procedures to manage asset integrity throughout the life cycle of an asset within Enbridge, the IMPACT PLUS audit helped pinpoint areas for improvement to further improve performance.

● EMERG Student Outreach Committee

1:30 to 3:30 p.m. | Room 225 C

● IMPACT Canada Study Results and Next Steps

2:30 – 3:00 p.m. | Room 206 AB

Presented by Monica Hernandez, Infinity Growth and Country Coordinator for IMPACT Canada Study

As a bonus to the Enbridge Case Study presentation, Monica Hernandez will present the findings from the recently completed cost of corrosion study (IMPACT Study) that was conducted specifically for the country of Canada. The study revealed a \$52 Billion USD annual cost in Canada. Attendees will hear a breakdown of these costs into sectors as well as hear about some barriers that limit effective corrosion mitigation.

● Keynote - Ensuring Technical Expertise has a Role in Infrastructure Policies & Spending

3:30 to 4:30 p.m. | Lila Cockrell Theater



Former Department of Transportation (DOT) Secretary Ray LaHood will give an in-depth analysis of the current status of America's infrastructure, recommend policies and issues lawmakers should focus on, and discuss the important role the AMPP community can play in revitalizing America's dilapidated transportation systems. This important keynote address highlights the

needs of the corrosion and protective coatings sector and offer unique insight into how top officials prioritize infrastructure investments and policies throughout the US. For example, what types of projects does the DOT prioritize? What sort of sustainability and integrity plans do policymakers require?

This event is even more important and timely as policymakers nationwide implement the Infrastructure Investment and Jobs Act (IIJA) passed in November 2021. Please join us for this rare

opportunity to learn more about what future investments mean for your profession.

● EMERG Student Meeting

3:30 to 5 p.m. | Room 224

Discuss career development opportunities, current industry topics, innovations, issues, and trends while networking and making connections with a diverse group of students and young professionals from around the world.

● Expo Hall Grand Opening

5 to 7 p.m. | Exhibit Hall

AMPP and our exhibitors are excited to unite in person, network and foster new relationships in the exhibit hall. The Expo Grand Opening kicks off the opening of the hall with a complimentary drink ticket redeemable at any bar placed throughout the hall. Take this opportunity to see what new innovations our exhibitors have been up to, network with those in your industry and check out the fantastic hands-on training our test fields have to offer.

● Student Poster Session

5 to 7 p.m. | Exhibit Hall

To encourage student involvement in the field of coatings and corrosion technology, the AMPP Research Program Committee and BP sponsors a Student Poster Session at AMPP Annual Conference + Expo.

Sponsored by



Discover what role you could play

● EAPA Seminar

7 to 10 p.m. | Virtual - Please check Mobile App

With staggering and increasing corrosion losses globally, stronger, smarter yet more sustainable technologies are being needed for corrosion mitigation and control. For instance, smart materials have received wide interests for the development of next-generation surfaces and coatings capable of sensing corrosion and healing damages with minimal human intervention. On another front, data-driven approaches based on machine learning models begin to demonstrate their power to diagnose corrosion mechanisms and predict corrosion progress under complex influencing factors more intelligently. This year's EAPA seminar continues to focus on the topics relevant to Intelligent Corrosion Control, including smart materials for corrosion protection, sensors and devices for corrosion monitoring and inspection, and corrosion modelling and prediction.

Please see the mobile app for details. A recording of this session will be available On Demand post event.

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Advanced Protective Coating Technology (Day 1)

Chair: Benjamin Chang | Vice Chair: Matt Dabiri | 8:00 a.m. - 3:30 p.m. | Room 210

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17696 | Flame Retardant Polyurethane Corrosion Protective Coating | Mohammad Mizanur Rahman (King Fahd University of Petroleum and Minerals) |
| 8:35 a.m. | C2022-18028 | Chemical Resistance Of Epoxy Coatings In High Temperature And High Pressure And Aggressive Service Conditions. | Sudhir Ananthachar (Evonik) |
| 9:00 a.m. | C2022-18194 | Exploring The Truth About Aluminium Flakes As Pigments In Corrosion Protective Coatings | Andreas Loken, Anders W.B. Skilbred, Magne Kringberg, and Torstein Ledre (Jotun AS) |
| 9:25 a.m. | C2022-18189 | Anticorrosion Performance Of Smart Release Bionanocomposite Coatings On Aluminium Alloy 6061 | Sarah Ulaeto (Rhema University, Nigeria), Gincy Mathew, Jerin Pancreicious, and Rajan TPD (CSIR-National Institute for Interdisciplinary Science & Technology [NIIST]) |
| BREAK | | | |
| 10:10 a.m. | C2022-18173 | Review Of Coating Current Test Methods For Simulating CUI Conditions And Introduction Of A New, Small Scale, Accelerated Test Method | David Morton, Simon Daly, and Vadimas Verdingovas (Hempel A/S) |
| 10:35 a.m. | C2022-17931 | A Novel Methodology For Addressing Corrosion Under Insulation (CUI) Utilizing Corrosion Inhibitor Impregnated Self-Amalgamating Silicone Based Tape | Phil Low (Zerust Oil and Gas), Thomas Rehberg (KAEFER Isoliertechnik GmbH & Co. KG) |
| 11:00 a.m. | C2022-18044 | Third Generation Polysiloxane Coatings For Elevated Temperature; Field Performance | Peter Bock (Performance Polymers Americas LLC), James Reynolds |
| 11:25 a.m. | C2022-18201 | Changing The Landscape Of Thermal Insulation Coatings | Selwyn Williams (Sherwin Williams) |
| LUNCH | | | |
| 1:00 p.m. | C2022-18122 | An Innovative Thermoplastic Coating For CUI Applications | Hindrik Harm Broesder and Somaieh Salehpour (Seal for Life Industries), Dinko Cudic (Lufisi d.o.o.) |
| 1:25 p.m. | C2022-18153 | Decontamination Chemical Compatibility With Protective Coatings | Xiaoxia Zhu (Shell Global Solutions), Benjamin Chang (PolyLab, LLC) |
| 1:50 p.m. | C2022-18125 | Long Term Performance Of Glassflake Reinforced Polyesters - A Case Study After 35 Years Under Offshore Conditions | Anders W.B. Skilbred (Jotun AS), Andreas Loken |
| BREAK | | | |
| 2:35 p.m. | C2022-17657 | Advanced Coating Technology For Refinery And Petrochemical Applications | Sanjay Lodha (Tubacex) |
| 3:00 p.m. | C2022-17853 | Field And Laboratory Studies On The Effect Of UV Degradation And UV Protector Paints On Stockpiles Of FBE Coated Pipeline | Amal Al-Borno (Charter Coating Service (2000) Ltd.), Aissa VanDerVeen (TC Energy [Formerly TransCanada]) |

Monday, March 7

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Advances in Materials for Oil and Gas Production (Day 1)

Chair: Filippo Cappuccini | Vice Chair: Julio Maldonado | 8:00 a.m. - 3:30 p.m. | Room 005 Juan O'Gorman

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18150 | Corrosion Issues In Sweet And Sour Oil & Gas Wells | Janardhan Saithala (Petroleum Development Oman LLC) |
| 8:35 a.m. | C2022-17882 | Corrosion Of Wrought And Cast Ni-Fe-Cr-Mo Alloys In High-Temperature Brines And CO ₂ -Rich Supercritical Phases With Oxygen And Hydrogen Sulfide | Manuel Marya (Schlumberger) |
| 9:00 a.m. | C2022-17525 | Development Of The NACE "MR-01-75" And NACE "TM-01-77" Standards: Part I – Field Observations And Metallurgical Factors | Eric Caldwell (Eric Caldwell), Brent Sherar and Peter Ellis2 (Honeywell Corrosion Solutions), Russell Kane (iCorrosion LLC) |
| 9:25 a.m. | C2022-17516 | Development Of The NACE "MR-01-75" And NACE "TM-01-77" Standards: Part II – Accelerated Material Qualification Testing In Sour Environments At Near Atmospheric Pressure | Brent Sherar and Peter Ellis2 (Honeywell Corrosion Solutions); Eric Caldwell,(Eric Caldwell), Russell Kane (iCorrosion LLC) |
| BREAK | | | |
| 10:10 a.m. | C2022-17776 | Reduction Of Conservatism In SSC Testing For Sour Gas Well Tubulars | Marc Wilms (Shell Global Solutions INT BV), Daniela Garcia and Harold Evin (VALLOUREC), Edmund Dickinson and Gareth Hinds (National Physical Laboratory [NPL]), Herve Marchebois (TOTAL E&P), Johan Smit (Shell Global Solutions International BV), Michel Bonis, Sytze Huizinga, Willem Maarten van Haaften (Shell) |
| 10:35 a.m. | C2022-17871 | New Insights On Groove Criticality Formed Onto Carbon Steel After Sulfide Stress Cracking Test | Christophe Mendibide (Institut de la Corrosion), Flavien Vucko (French Corrosion Institute) |
| 11:00 a.m. | C2022-18000 | The Development Of Eta Function For Notch Tensile Testing Of Sulfide Stress Cracking (SSC) Susceptibility | Yuan Ding (Texas A&M University), Raymundo Case (Texas A&M Engineering Experiment Station), Sebastian Cravero (Tenaris) |
| 11:25 a.m. | C2022-17615 | Design Of Sour Service Material: Combining Metallurgical Design, Laboratory And Full Scale Testing Towards A Novel High Strength Sour Service Material | Michel Piette, Florian Thebault, and Livia Cupertino Malheiros (Vallourec Research Center France); John Fortaillier (Vallourec Oil & Gas France), |
| LUNCH | | | |
| 1:00 p.m. | C2022-17721 | Very High Strength Low Alloy Steels For HPHT Applications | Julien Pennequin and John Fortaillier (Vallourec Research Center France), Carine Landier and Florian Thebault (Vallourec), |
| 1:25 p.m. | C2022-17565 | Local Hard Zones On TMCP Large Diameter Line Pipes: What Do We Know? | Herve Marchebois (Total E&P), Bruce Cowe (Total SE), Thierry Cassagne (TOTAL) |
| 1:50 p.m. | C2022-17917 | Impact Of Material Properties Of Thick-Wall X65 TMCP Plate Steel For Sour Service | Thomas Haase, Christoph Bosch, Matthias Frommert (Salzgitter Mannesmann Forschung GmbH); Alexander Voelling and Sven Casper (Salzgitter Mannesmann Grobblech), Markus Schürmann (HKM) |

Monday, March 7

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| BREAK | | | |
|-----------|-------------|--|--|
| 2:35 p.m. | C2022-17710 | Improved Girth Welding On Seamless Linepipe For High H ₂ S Partial Pressure Condition | Florian Thebault and Laurent Faivre (Vallourec Research Center France); Antoine Rémy and Sébastien Leconte (SERIMAX); Laurent Ladeuille (Vallourec Project Line Pipe) |
| 3:00 p.m. | C2022-17816 | In-Situ Observation Of Hydrogen-Induced Cracking Initiation Site In Linepipe Steels | Taishi Fujishiro (Nippon Steel Corporation), Eiji Tada (Tokyo Institute of Technology), Kyono Yasuda and Nobuyuki Ishikawa (JFE Steel Corporation), Mitsuo Kimura (The University of Tokyo), Takuya Hara (Tohoku University) |

Biomedical Materials

Chair: Shiril Sivan | Vice Chair: Danieli Rodrigues | 8:00 a.m. - 2:00 p.m. | Room 214 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-18530 | Exploring Risk Factors Of Implants Under Inflammatory And Infectious Chemical Environment | Mathew Mathew Thoppil (Department of Biomedical Science, UIC College of Medicine at Rockford) |
| 8:35 a.m. | C2022-18371 | Impact of Titanium Corrosion Products on Cellular and Molecular Events Involved in Oral Osseointegration | Claudia Biguetti, Danieli C. Rodrigues, and Danyal Siddiqui, (The University of Texas at Dallas); Angélica Fonseca and Gustavo Garlet (School of Dentistry of Bauru, University of Sao Paulo); Sutton Wheelis (BONE Lab, University of Texas at Dallas) |
| 9:00 a.m. | C2022-18414 | Corrosion Of Additive Friction Stir Deposited AZ31B Utilized In Biomedical Applications | Yoel Emun (University of Alabama) |
| 9:25 a.m. | C2022-18387 | Diabetes As A Risk Factor For Orthopedic Implant Surface Performance: A Retrieval And In Vitro Study | Alexandra Arteaga, Danieli C. Rodrigues, and Jiayi Qu (University of Texas at Dallas), Brian Webb and Sara Haynes (John Peter Smith Hospital), Javier LaFontaine (University of Texas Southwestern Medical Center) |
| BREAK | | | |
| 10:10 a.m. | C2022-18413 | Degradation Control Of Bio-Function Surfaces For Orthopedic Implants | Amir Eliezer (Sami Shamon College of Eng.) |
| 10:35 a.m. | C2022-18393 | Synergistic Effects Of Bacterial Contamination And Citric Acid Detoxification On Titanium Dental Implants | Bhuvana Lakkasetter Chandrashekar, Danieli C. Rodrigues and, Danyal Siddiqui (University of Texas at Dallas) |
| 11:00 a.m. | C2022-18407 | Electrochemical Behavior Of Directed Energy Deposited (DED) Co-Cr-Mo Alloys In Simulated Electrolytes For Biomedical Applications. | Deeparekha Narayanan, Homero Castaneda-Lopez, Matthew Kuttolamadham and Michael Liu (Texas A&M University) |
| 11:25 a.m. | C2022-18536 | Electrochemical Characterization Of Novel Titanium Alloys In Biomedically-Relevant Electrolytes | Jaewan Bae (Cal Poly Pomona), Jacob Benoun, Vilupanur Ravi |
| LUNCH | | | |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|-----------|-------------|--|--|
| 1:00 p.m. | C2022-18513 | Enhanced Corrosion Resistance And Biocompatibility Of Pure Magnesium Modified By Calcium Phosphate / Biomass Of Chlorella Sp. Coating For Orthopedic Applications. | Lizeth Gutierrez, Ana Fonseca, Juan Rincón Montenegro, Lily Arrieta Payares, and Virginia Paredes Méndez (Universidad del Norte) |
| 1:25 p.m. | C2022-18514 | Use Of The Microalgae Chlorella Sp. To Biofunctionalize Magnesium Surfaces In Order To Decrease The Rate Of Corrosion And Promote The Bone Remodeling Process | Lily Arrieta Payares, Juan Rincón Montenegro, Lizeth Gutierrez, Margareth Dugarte, and Virginia Paredes Méndez (Universidad del Norte) |

Coating Failures

Chair: Robert Lauer | Vice Chair: Amjad Al Kharusi | 9:00 a.m. - 12:00 p.m. | Room 213

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 9:10 a.m. | C2022-18143 | Extending Asset Lifecycle With Inspections And Maintenance | Cortney Chalifoux and Timothy Widing (Pond and Co.) |
| 9:35 a.m. | C2022-17535 | Corrosion Under Insulation Behavior Of Phenolic Epoxy Coatings Under Contacting And Contact-Free Insulations | Ahmad Raza Khan Rana (Residential) George Jarjoura and Omar Chaar (Dalhousie University), Graham Brigham (Integrity Products) |
| 10:00 a.m. | C2022-17971 | Aesthetic Issues With Spray-Applied Fluoropolymer Coating System | Kimberly Steiner (Wiss, Janney, Elstner Associates, Inc) |
| 10:25 a.m. | C2022-18110 | Case Study Based On Coating Failure Analysis Of Cargo Container | Syed Umair Niaz Bukhari (Bureau Veritas) |
| BREAK | | | |
| 11:10 a.m. | C2022-18164 | Coating Failures By Design | Leonard Phelps (WJE), Ralf Leistikow (WJE) |
| 11:35 a.m. | C2022-17704 | Corrosion Perforation Failure Analysis Of Inside Coating Sewage Pipeline | Zhiwen Yang (Safetech Research Institute (Beijing) Co., Ltd.), Fang Li (Northwest Branch Company of Sinopec), Jiangjiang Zhang (Northwest Oilfield Branch, China Petroleum & Chemical Corporation), Lei Zhang (University of Science and Technology Beijing), Wenguang Zeng (Northwest Oilfield Company, Sinopec), Xiaotong Liu (Safetech Research Institute (Beijing) Co., Ltd.), Yingfeng Chen, Yunying Xing, Zheng Zhan (Northwest Branch Company of Sinopec) |

Monday, March 7

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Coatings and Corrosion Control for Storage Tanks

Chair: Khalil Abed | Vice Chair: Mohammed Alrudayni | 8:00 a.m. - 2:00 p.m. | Room 302 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17881 | Enhancing The Reliability Of Ageing Assets In Utility Plants Through The Application Of RTR | Musab Talal and Faris Alkordy (Saudi Aramco) |
| 8:35 a.m. | C2022-17669 | Toward Objective Evaluation Of FRP Corrosion Barrier Condition | Geoff Clarkson (Geoff) |
| 9:00 a.m. | C2022-17556 | Volatile Corrosion Inhibitor For External Aboveground Oil Storage Tanks Bottom Plates Corrosion Protection As Per API-655 TR | Anwaar Al Kindi, Monica Fernandez, and Naveed Munir (Petroleum Development Oman [PDO]), Phil Low (Zerust Oil and Gas) |
| 9:25 a.m. | C2022-18035 | Case Study: HDD CP Retrofit For Existing Critical Service Ethylene Above Ground Storage Tank. | Shailesh Javia (MATCOR Inc.), Venkat Sreenivas (EQUATE Petrochemical Company) |
| BREAK | | | |
| 10:10 a.m. | C2022-17961 | Fiber-Reinforced Polymer (FRP): Resin And Corrosion Barrier Selection - The Testing Behind The Recommendation | Lisa Adkins (INEOS Composites) |
| 10:35 a.m. | C2022-18057 | Sustainable Coatings For Above Ground Storage Tanks | Martin Gagne (Zelixir Inc), James Weber |
| 11:00 a.m. | C2022-17666 | Improved Cathodic Protection Current Distribution for Above Ground Storage Tank Bottoms Due to Low Resistivity Vapor Corrosion Inhibitor Use | Sujay Math (Zerust Oil & Gas) |
| 11:25 a.m. | C2022-17537 | Highly Durable Solventborne Silicone Organic Hybrid For Protective Coating Applications | Erin Vogel, Adam Tomasik, Gary Wieber, and Yanxiang Li (Dow Inc.) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17879 | Use Of Vapor Phase Corrosion Inhibitor For Tank Bottom Protection | Muhammad Arsalan Khan Sherwani (Saudi Aramco) |
| 1:25 p.m. | C2022-18026 | Implications Of NSF Std. 61 Changes And An Asset Management Based Data Driven Protocol For Potable Water Coatings Selection | Randy Moore (Tnemec), Cameron Walker (Avid Protective Products Ltd) |

Monday, March 7

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Control of Corrosion in Oil and Gas with Inhibitors (Day 1)

Chair: Zineb Belarbi | Vice Chair: Pierre Mekarbane | 8:00 a.m. - 3:30 p.m. | Room 217 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-18160 | Chemical Mitigation Of Alkaline Carbonate Stress Corrosion Cracking | Maria Marquez, Oussama Zenasni, and Philip Thornthwaite (NALCO Champion, an Ecolab Company); John Scholz (ECOLAB Research Ctr), |
| 8:35 a.m. | C2022-17562 | Corrosion Inhibition Of Carbon Steel In Carbonate Acidizing At Elevated Temperature | Limin Xu (Aramco Asia Beijing Research Center), Ming Han, Mohammed Bataweel, and Tao Chen (Saudi Aramco) |
| 9:00 a.m. | C2022-17548 | Corrosion Inhibitor Encapsulation For Enhanced Chemical Efficiency And Performance | Fang Cao, Dennis Schmatz, and Satish Bodge (ExxonMobil Research and Engineering Co.); James Oxley (Southwest Research Institute); Yao Xiong (ExxonMobil Upstream Research Co.) |
| 9:25 a.m. | C2022-17794 | Corrosion Inhibitors In O&G Industry: A Review Of Current Application Challenges And Research Gaps | Rakan Alshebel (Saudi Aramcon Oil Company), Faisal Al-Mutahhar and Hassan Al-Ajwad (Saudi Aramco) |
| BREAK | | | |
| 10:10 a.m. | C2022-17663 | Corrosion Inhibitors Use: Case Study For Guinea Gulf Assets Application | Mioara Stroe, Alvaro De Sousa, Laurent Dehays (Total EP Angola), and Raquel Araujo (Total E&P Angola); Francisco-Mateus Garcia (Petrofac Facilities Management) |
| 10:35 a.m. | C2022-17791 | Effect Of Inhibitor Component On Inhibitor Efficiency - Inhibitor Types And Intensifier- | Hirotaaka Mizukami, Ayano Yasui, Sei Tatsuya, Susumu Hirano, Takashi Ito, and Toshiyuki Sunaba, (INPEX CORP.); Akiyoshi Kimura, Mitsuru Uno, Reiko Ikeda (Kao Corporation) |
| 11:00 a.m. | C2022-18167 | Effect Of N-Furfuryl-Aniline And N-Furyl-C-Phenyl-Nitrone On Corrosion Inhibition Of Low Carbon Steel In 3% NaCl | Ana Fonseca (Universidad del Norte), Edgar Almanza (Universidad Autónoma del Caribe), Enrique Vera (INCITEMA), Wilson Rozo (Universidad Pedagógica y Tecnológica de Colombia) |
| 11:25 a.m. | C2022-17895 | Effect Of Temperature On Inhibition Efficiency And Data Analysis With Different Adsorption Isotherms | Yi He, David Young, and Marc Singer (Ohio University); Maalek Mohamed-Saïd (TOTAL), Sheyla Camperos (TRTG - TOTAL Research & Technology Gonfreville), Shuai Ren, Xi Wang |
| LUNCH | | | |
| 1:00 p.m. | C2022-17608 | Formulation Of Novel Combination Production Chemicals For Deepwater Oil And Gas Fields | Alyn Jenkins, Alex McRae, Andre Saraceno Meliande, and Brett Cardwell (Schlumberger) |
| 1:25 p.m. | C2022-17856 | Laboratory Evaluation Of Corrosion Inhibitor And The Performance Requirements In Gas Gathering And Transportation Pipelines | Chen Wen, Chang Gang, Yu Li, and Yuan Tian (Southwest Oil and Gasfield Company, CNPC) |
| 1:50 p.m. | C2022-17747 | Localized Corrosion Studied Via Interferometry Using Modified Surfaces | Tracey Jackson, Haitao Fang, Jagrut Jani, Johnathon Brooks, and Lei Huang (Baker Hughes) |
| BREAK | | | |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|-----------|-------------|---|---|
| 2:35 p.m. | C2022-17757 | Multitask Learning Framework For Screening Of Corrosion Inhibitors For Mild Steel | Abhishek Agarwal (Tata Consultancy Services); Beena Rai, Vinay Jain, Dharmendr Kumar (Tata Research Development and Design Center, Tata Consultancy Services); Pradeep Rathore and Sri Harsha Nistala (TCS); Sanjana S (Indian Institute of Technology Hyderabad) |
| 3:00 p.m. | C2022-18157 | Structure And Related Effectiveness Of Naphthenic Acid Corrosion Inhibitors | Oussama Zenasni and Maria Marquez (NALCO Water, an ECOLAB Company), John Scholz (ECOLAB Research Ctr); Philip Thornthwaite (NALCO Champion, an Ecolab Co.) |

Corrosion Issues in the Pulp, Paper, and Biomass Conversion Industries

Chair: Catherine Noble | Vice Chair: Jiheon Jun | 1:00 p.m. - 3:30 p.m. | Room 302 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 1:10 p.m. | C2022-18030 | Corrosion Of Nickle Based Alloy In Batch-Mode Biomass Supercritical Water Gasification(SCWG) System | Haoyang Li (Western University), Kaiyang Li (University of Alberta), Minkang Liu, Xue Han (Natural Resources Canada - CanmetMATERIALS), Yimin Zeng |
| 1:35 p.m. | C2022-18010 | Corrosion Performance Of Reactor Candidate Alloys During Hydrothermal Liquefaction (HTL) Of Cellulose In A Batch Reactor | Haoyu Wang (ICFAR, Western University), Haoyang Li (Western University), Kaiyang Li (University of Alberta), Minkang Liu, Xue Han (Natural Resources Canada - CanmetMATERIALS), Yimin Zeng |
| 2:00 p.m. | C2022-18031 | Corrosion Study Of Austenitic Stainless Steels During HDO Upgrading Process By Supercritical Ethanol Under Different Hydrogen Resource Conditions | Mingyuan Zhang (Western University), Kaiyang Li (University of Alberta), Minkang Liu, Xue Han (Natural Resources Canada - CanmetMATERIALS), Yimin Zeng |
| BREAK | | | |
| 2:35 p.m. | C2022-17759 | Electrochemical Corrosion Analysis Of Stainless Steels In LALM Pyrolysis Bio-Oil With Organic Corrodents | Jiheon Jun, Dino Sulejmanovic, James Keiser, Michael Brady, and Michael Kass (Oak Ridge National Laboratory) |
| 3:00 p.m. | C2022-18054 | Effect Of Organic Acids In Pyrolysis Oils On The Corrosion Of Constructional Materials For Oil Storage And Transportation | Xue Han (CanmetMATERIALS), Kaiyang Li (University of Alberta), Yimin Zeng |



The best part of the AMPP Annual Conference + Expo is the confluence of the best minds in the industry and academia at the same forum. I have been associated with metallurgy and corrosion since 1993, and this conference helps me tremendously in staying engaged with my discipline.

- Sudhakar Mahajanam, Stress Engineering Services



Monday, March 7

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Flow Assurance in Oil and Gas Productions (Day 1)

Chair: Qiwei Wang | Vice Chair: Zhengwei Liu | 8:00 a.m. - 3:30 p.m. | Room 301 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17894 | Carbonate And Sulfide Scale Formation In Multiphase Conditions | Olujide Sanni and Anne Neville (University of Leeds), Thibaut Charpentier |
| 8:35 a.m. | C2022-17826 | Evaluation Of Scale Deposition And Inhibition Using A Pilot-Scale Test System | David Nichols, Andrew Fyfe, Mark May, and Neil Goodwin (Scaled Solutions Ltd) |
| 9:00 a.m. | C2022-17623 | How To Acquire A Reliable Scale Inhibitor MEC Number Based On Laboratory Testing Results – A Field Case Analysis | Dong Shen, Haiping Lu, Hines Larry, Jeffrey Russek, and Michael Oney (Baker Hughes) |
| 9:25 a.m. | C2022-17610 | Development Of A F22 Compatible Scale Inhibitor | Ya Liu, Benton Hutchinson, James Outlaw, Jeffrey Russek, Rose Lehman (Baker Hughes) |
| BREAK | | | |
| 10:10 a.m. | C2022-17763 | Zinc Sulfide Solubility Modeling In Aqueous Solution At High Temperature And High Pressure | Xin Wang, Amy Kan, Chong Dai, Cianna Leschied, Mason Tomson, Saebom Ko, Samridhi Paudyal, Xuanzhu Yao, Yue Zhao, and Zhaoyi Dai (Rice University) |
| 10:35 a.m. | C2022-17896 | Development of Iron Sulfide Scale Inhibitor For Ultra-Tight Sandstone | Cyril Okocha (Clariant Oil Services), Alexander Russell Thornton (ALEXANDER RUSSELL), Qiwei Wang, Tao Chen (Saudi Aramco) |
| 11:00 a.m. | C2022-17630 | Development Of Fes Scale Control Technology Using Polymeric Dispersants In Sour Environment | Saebom Ko, Amy Kan, Mason Tomson, Wei Li, Xin Wang, and Zhaoyi Dai (Rice University) |
| 11:25 a.m. | C2022-17618 | Corrosion Under Insulation Performance Of Insulation Stand-Offs And Non-Metallic Membranes | Ahmad Raza Khan Rana (Residential), George Jarjoura and Omar Chaar (Dalhousie University), Graham Brigham (Integrity Products) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17822 | Flow Assurance Testing With Re-Livened Oil – A Cost-Effective Analogue For Live Oil | Andrew Farrell, Dario Frigo, and Gordon Graham (Scaled Solutions Ltd.) |
| 1:25 p.m. | C2022-17844 | Interpreting H ₂ S Scavenger Laboratory Test Results Using A Kinetic Model | Jose Vera (DNV) |
| 1:50 p.m. | C2022-17483 | Solids Formation In MEA Triazine Contact Towers, Prevention And Advice | Willem-Louis Marais (Schlumberger) |
| BREAK | | | |
| 2:35 p.m. | C2022-18154 | Innovative Biocide Blend Solves Microbial Contamination Issues In Hydraulic Fracturing Applications | Jeffrey Kramer and Christy Wentworth (BWA Water Additives) |
| 3:00 p.m. | C2022-17744 | Novel Hybrid Model For Under Deposit Corrosion Risk Assessment Of Crude Pipeline In Sand Producing Field | Lay Seong Teh (TEH LAY SEONG), Faisal Al-Abbas (Saudi Aramco), Nayef Alanazi (Research and Development Center), Qasim Saleem |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Fouling and Scaling in IWS: Mechanisms, Research Methods, and Control

Chair: Zahid Amjad | Vice Chair: Tao Chen | 8:00 a.m. - 3:00 p.m. | Room 217 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17694 | Downhole Sour Corrosion And Scale Deposition In Oil Wells | Tao Chen and Steven Hochanadel (Saudi Aramco), Feng Liang and Frank Chang (Aramco Services Co.) |
| 8:35 a.m. | C2022-17723 | Closed Loop Corrosion Control: Case Studies Of A Reliable, Robust, & Sustainable Treatment Program | Michael Weberski, Bingzhi Chen, Claire Rayner, and Sairam Sudhakaran (Nalco Water); Daniel Meier and Renate Ruitenberg (Nalco Co.), Steef Vrijhoeven (Nalco Europe BV) |
| 9:00 a.m. | C2022-17549 | Overview Of Scale Issues And Treatment For Sour Water Strippers | Haiping Lu, Jim Kiolbassa, Swamy Margan, William Mansfield, and William Watson (Baker Hughes) |
| 9:25 a.m. | C2022-17702 | Investigating Alternative Mechanisms For Metal-Silicate Scale Formation: Do Metal Hydroxides Play A Role? | Kostas Demadis and Michaela Kamaratou (University of Crete) |
| BREAK | | | |
| 10:10 a.m. | C2022-17595 | Investigation Of Scale Inhibitor Interference On Sulfate Measurement And Method To Remove The Interference | Ya Liu and Haiping Lu (Baker Hughes) |
| 10:35 a.m. | C2022-17727 | Polymer Architecture Effect On Zinc Ions Stabilization In Aqueous Systems | Zahid Amjad (Walsh University), Panagiota Natsi (University of Patras and FORTH-ICEHT), Petros Koutsoukos |
| 11:00 a.m. | C2022-17876 | Mechanisms And Polymorphic Transformation Of Calcium Carbonate Inorganic Scale In Oil-Water Emulsion. | Olujide Sanni, Anne Neville, Frederick Pessu, Ogbemi Bukuaghangin, Richard Barker, Thibaut Charpentier, and Wassim Taleb (University of Leeds) |
| 11:25 a.m. | C2022-17703 | Ph-Responsive Copolymers As Silica Scale Inhibitors | Kostas Demadis and Georgia Skordalou (University of Crete) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17588 | Mitigation Of Scaling Potential Using Organophosphorus Phosphonates In High-Temperature And High-Hardness Carbonate Formations | Jian Hou (Aramco Asia Beijing Research Center), Ming Han, Mohammed Bataweel, and Tao Chen (Saudi Aramco) |
| 1:25 p.m. | C2022-17706 | Polymeric Silica Scale Inhibitors: Computational Predictions And Experimental Studies On Inhibitor Efficiencies | Kostas Demadis, Efstratios Korhatzis, Konstantinos Xanthopoulos (University of Crete) |
| 1:50 p.m. | C2022-17731 | Review Of The State Of The Art Of Siliceous Scale Management In Industrial Systems | Zahid Amjad (Walsh University), Panagiota Natsi (University of Patras and FORTH-ICEHT), Petros Koutsoukos |
| 2:25 p.m. | C2022-17626 | Robust Non-Phosphorus Cooling Water Treatment Program That Reduces The Biological Control Challenge - A Case Study | Bingzhi Chen (Nalco Water) |
| BREAK | | | |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|-----------|-------------|---|--|
| 2:50 p.m. | C2022-17700 | Nucleation And Crystal Growth Of Calcium Carbonate In The Presence Of Zn | Petros Koutsoukos and Panagiota Natsi (University of Patras and FORTH-ICEHT); Zahid Amjad (Walsh University) |
| 3:15 p.m. | C2022-17875 | Retention Improvement Of Sulfonic Acid Based Scale Inhibitor On Sandstone Formations At HTHP Conditions | Yasmin Hayatgheib, Anne Neville, Paul Thornton, Richard Barker, Thibaut Charpentier, and Wassim Taleb (University of Leeds); John-Richard Ordóñez-Varela and Salima Baraka-Lokmane (TOTALenergies) |

Improving Atmospheric Corrosion Simulation and Stimulation through Modeling and Controlled Exposures

Chair: Sean Fowle | Vice Chair: Erica Macha | 8:00 a.m. - 3:30 p.m. | Room 217 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17808 | Naval Aviation Environmental Severity Correlation | Christine Sanders (US Naval Research Laboratory), R Santucci |
| 8:35 a.m. | C2022-17621 | Comparison Of Atmospheric Corrosion Of Silver Across Multiple Locations | Ronald Zeszut (University of Dayton Research Institute), David Rubino (University of Dayton), Douglas Hansen |
| 9:00 a.m. | C2022-17668 | Corrosion Severity Comparison Of Three Beach Sites | David Borth (University of Dayton Research Institute), Douglas Hansen, Gregory Wolters |
| 9:25 a.m. | C2022-17642 | Characterization Of The Surface Chemistry At Corroded And Non-Corroded Sites On Aluminum Alloy 7075-T6 Samples Exposed At Coastal Locations | Douglas Hansen and David Borth (University of Dayton Research Institute), Farrah Cole (University of Dayton) |
| BREAK | | | |
| 10:10 a.m. | C2022-17819 | Effect Of Environmental Parameters On Atmospheric Corrosion Of Infrastructures Of Canada | Nafiseh Ebrahimi and Istemi Ozkan (National Research Council), Jieying Zhang (National Research Council Canada) |
| 10:35 a.m. | C2022-18198 | Examination Of Corrosion Sensor Data From Long-Term Field Exposures | Erica Macha, Erin DeCarlo, and James Dante (Southwest Research Institute) |
| 11:00 a.m. | C2022-18158 | Inhibitor Exhaustion From Aerospace Primers | James Dante (Southwest Research Institute) |
| 11:25 a.m. | C2022-17897 | Understanding Effect Of Scribe Method On Variability In Accelerated Corrosion Test Results | Sarah Specht, Arif Mubarak, James Begley, Melinda Dent, Nicole Rakers, and Suprita Jharimune (PPG) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17685 | Predictive Coating Condition Model For Coating Lifetime Under Environmental Stressors | Victoria Avance, Brandi Clark, Fritz Friedersdorf, and Liam Agnew (Luna Innovations, Inc) |
| 1:25 p.m. | C2022-17612 | Bayesian Modeling Coating Performance | James Ellor and Anthony Florimbio (Elzly Technology), C Thomas Savell (GCAS Inc), Daniel Pope (Army Research Laboratory), Lisa Barker (KTA-Tator Inc) |
| 1:50 p.m. | C2022-17992 | Advances In Digital Twin And AI To Predict And Manage External Corrosion - A Smart Tool For Decision Makers | Otavio Correa and Jorge Selene (Vidya Tec) |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|-----------|-------------|---|---|
| 2:25 p.m. | C2022-18163 | Predicting Atmospheric Galvanic Corrosion Of Aluminum Alloy By Combining Electrochemical Techniques And Accelerated Laboratory Corrosion Tests | Raghu Srinivasan, Matt Cullin, and Toomas Kollo (University of Alaska Anchorage) |
| BREAK | | | |
| 2:50 p.m. | C2022-17686 | The AA2024/CFRP Galvanic Couple Under A Dynamic Electrolyte Drop | Juan Genesca Llongueras (Universidad Nacional Autonoma Mexico, UNAM), E. Garcia-Lecina (CIDETEC), J. Vega (CIDETEC), Rodrigo Montoya (UNAM-PUNTA) |
| 3:15 p.m. | C2022-17638 | Understanding Atmospheric Corrosion Damage On An Aircraft Representative Galvanic Specimen: A Two-Pronged Approach That Combines Modeling With Experimental Measurement | Thomas Curtin (Computational Mechanics BEASY), Andres B. Peratta and Robert Adey (CMI BEASY) |

Localized Corrosion

Chair: Jason Lee | Vice Chair: Saba Navabzadeh Esmaeely | 8:00 a.m. - 3:30 p.m. | Room 214 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-18419 | Assessment Of Corrosion Behavior Of High Entropy Alloy In Simulated Soil Environments With Varying Temperature | Olivia Esmacher, Avery Barlow, Homero Castaneda-Lopez, and Lin Chen (Texas A&M University) |
| 8:35 a.m. | C2022-18438 | Atmospheric Corrosion Evaluation of Sea Salt and MgCl ₂ Salt Solution Droplets on Austenitic Stainless Steel 316L | Tasnia Fatima and Brendy Rincon Troconis (University of Texas at San Antonio); Ricardo Carvalho (Instituto de Educação Continuada) |
| 9:00 a.m. | C2022-18451 | Atmospheric Corrosion Of Laser Powder Bed Fusion 316L Stainless Steel | Michael Melia, Eric Schindelholz, Erin Karasz, Jason Taylor, Jeffrey Rodelas, Kasandra Escarcega Herrera, Michael Heiden, and Rebecca Schaller (Sandia National Laboratories) |
| 9:25 a.m. | C2022-18505 | Effect Of Crude Oil Chemistry On Wetting State And CO ₂ Corrosion Mitigation In Oil-Water Two Phase Flow | Neda Norooziasl (Institute for Corrosion and Multiphase Technology) |
| BREAK | | | |
| 10:10 a.m. | C2022-18510 | Effect Of Feedstock Modification On Intergranular Corrosion Of Additively Manufactured 316L Stainless Steel After Sensitization | Evan DelVecchio (North Carolina State University) |
| 10:35 a.m. | C2022-18401 | Effects Of Cl ⁻ And H ₂ S Concentration On Passive Film Breakdown Of Modified 13Cr Martensitic Stainless Steels | Alan Martinez (Texas A&M University), Raymundo Case (Texas A&M Engineering Experiment Station), Yuan Ding |
| 11:00 a.m. | C2022-18450 | Environmental Influences On Maximum Pit Sizes For Austenitic Stainless Steels Utilized In Spent Nuclear Fuel Storage | Ryan Katona and Robert Kelly (University of Virginia); Charles Bryan, Dusty Brooks, Nathan Porter, and Rebecca Schaller (Sandia National Laboratories) |

Monday, March 7

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| | | | |
|------------|-------------|---|--|
| 11:25 a.m. | C2022-18496 | Exploring The Role Of Different Additives On Corrosion Performance Of Additively Manufactured 316L Stainless Steel | Venkata Vukkum and Ahmed Darwish (North Carolina State University); Furkan Ozdemir, Jijo Christudasjustus, Rajeev Gupta, and Steven Storck (JHU APL) |
| LUNCH | | | |
| 1:00 p.m. | C2022-18411 | Impact Of Chromate On The Cathodic Behavior Of The Micro- And Macro-Cathodes Pertinent To AA7050-316SS Galvanic Couple Under Simulated Thin Film Conditions | Utibe Eno Charles Granville, John Scully, and Robert Kelly (University of Virginia) |
| 1:25 p.m. | C2022-18508 | Laser Shock Peening Effect On Sensitization And Exfoliation Of AA5xxx | Katrina Catledge, Allison Akman, and Gabriella Marino (The Ohio State University); Jenifer Locke (Materials Science and Engineering); Saba Navabzadeh Esmaeely (Ohio University) |
| 1:50 p.m. | C2022-18398 | Localized Growth Mechanism As A Function Of Cyclic RH And Variable pH | Vangelina Osteguín and Brendy Rincon Troconis (University of Texas at San Antonio), James Dante (Southwest Research Institute) |
| 2:25 p.m. | C2022-18488 | Long-Time Exposure Aging Of Oxides On Ni-Cr And Ni-Cr-X (Mo, W) Alloys In Acidic Chloride Solutions And Ramifications For Local Corrosion Resistance | Elena Romanovskaia, John Scully, and Katie Lutton Cwalina (University of Virginia), Laurence Marks and Marshal Amalraj (Northwestern University) |
| BREAK | | | |
| 2:50 p.m. | C2022-18448 | Modeling Sensitization Trends Of 5XXX Aluminum Alloys Of Varying Temper | Lindsey Blohm and Heather Murdoch (DEVCOM ARL) |
| 3:15 p.m. | C2022-18418 | The Roles of Composition and Microstructure in Additively Manufactured Alloy 625 Crevice Corrosion | Yousef Shorrab and Robert Lillard (University of Akron) |

“

I look forward to seeing new technology, equipment, ideas and methods that the industry has to offer. I can bring back all of these ideas to my company to make the work safer while getting better quality and improving schedules and budgets.

- Paul Kautz, General Dynamics Electric Boat

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Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Marine Coatings and Corrosion

Chair: Abdul Hameed Al-Hashem | Vice Chair: Moavin Islam | 8:00 a.m. - 11:30 a.m. | Room 221 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17873 | Application of Electrochemical Noise to Identify Corrosion Development of Steel with Galvanized Protective Coatings | Samanbar Permeah and Kingsley Lau (Florida International University) |
| 8:35 a.m. | C2022-17923 | Effect Of Glass Flake In Anti-Corrosive Coatings For Extreme Conditions | Suprita Jharimune, Arif Mubarak, C.Y. Lee, Chinming (Benjamin) Hui, Hongbing He, Mary Lyn Lim, Melinda Dent, Nicole Rakers, and XinZhu Gu (PPG) |
| 9:00 a.m. | C2022-17891 | Fouling, Corrosion, And Wear Protection Of Power Take Off Rods For Wave Energy Conversion - Laser Cladding And Scraping | Johan Lindén, Emiliano Pinori, Kjell-Åke Andersson, (RISE Research Institutes of Sweden), Antoine Bonel and Ross Harnden (CorPower Ocean), Gonçalo Fonseca and Pedro Vinagre (WavEC Offshore Renewables) |
| 9:45 a.m. | C2022-17959 | Intellisyn™ - A New Class Of Multifunctional Smart Particles For Advanced Corrosion Protection | Benjamin Pearman, Dillon Campbell, and Jun Zhang (SynMatter LLC), Steve Dickey (The Sherwin-Williams Co.), Victoria Scarborough (Materia Prima Ventures) |
| BREAK | | | |
| 10:10 a.m. | C2022-18033 | Novel Evaluation Of The Failure Of Coatings In A Marine Environment | James Ellor (Elzly Technology Corp.) |
| 10:35 a.m. | C2022-17977 | Offshore Marine Corrosion Rates - A Case Study | Alex Delwiche (Deepwater Corrosion Services), Patrick Lydon |
| 11:00 a.m. | C2022-17660 | Precision Navigation For Hull Crawling Robots - Efficient Robots For Automated Grooming | Karl Lander (Greensea Systems Inc) |

Mechanisms of Localized Corrosion

Chair: Mariano Kappes | Vice Chair: Helmuth Sarmiento Klapper | 8:00 a.m. - 3:30 p.m. | Room 217 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17939 | Determination Of Oxygen Limits For Corrosion Resistant Alloys (Cras) In Oil & Gas Produced Water Based On Electrochemical Test Methods - Part 1 | Roy Johnsen (Norwegian Univ of Sci & Tech), Jan Skar, Marion Duparc, Sven Hesjevik (Equinor ASA); Marie Edvardsen and Martin Hestvik (NTNU) |
| 8:35 a.m. | C2022-17947 | Determination Of Oxygen Limits For Corrosion Resistant Alloys (Cras) In Oil & Gas Produced Water Based On Electrochemical Test Methods - Part 2. | Marion Duparc, Jan Skar, Tov Saxegaard (Equinor ASA), Martin Hestvik and Roy Johnsen (NTNU) |
| 9:00 a.m. | C2022-17955 | Improved Localized Corrosion Models For Stainless Steels In Aqueous Chloride Environments With Low Levels Of Dissolved Oxygen | Guru Prasad Sundararajan (Shell Technology Center), Andre Anderko and Deepti Ballal (OLI Systems Inc), Sinchana Rao (Shell Bangalore), Wilhelmus Bos (Shell) |
| 9:25 a.m. | C2022-17738 | Electrochemical Assessment Of The Influence Of Temperature On The Pitting Corrosion Resistance Of Metallic Materials In Brines | Helmuth Sarmiento Klapper and Sebastian Jesse (Baker Hughes) |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| BREAK | | | |
|------------|-------------|---|--|
| 10:10 a.m. | C2022-18121 | Corrosion Investigation Of Five Stainless Steels In Oil-Gas-Water Multiphase Flow Containing H ₂ S, CO ₂ And Chloride | Zhu Peike (PetroChina Research Institute of Petroleum Exploration & Development) |
| 10:35 a.m. | C2022-17761 | Investigation on Localized Corrosion Resistance of Nickel-based alloy UNS N07718 under Sour conditions of PuGuang Field simulated Environment | Erfan Abedi Esfahani, Anne Neville, Frederick Pessu, and Richard Barker (University of Leeds); Jiong Qian (Jiuli Corrosion and Integrity Centre) |
| 11:00 a.m. | C2022-17805 | In-Situ Determination Of The Degree Of Sensitization In Austenitic Stainless Steels | Pablo Altamirano (INTI), Mariano Kappes (Comision Nacional de Energia Atomica), Martin Rodriguez |
| 11:25 a.m. | C2022-17827 | Factors In Galvanic Corrosion Between Steel And Iron Sulfides In Acidic Solutions | Payman Sharifi Abdar and Srdjan Nestic (Ohio University), Bruce Brown (Institute for Corrosion and Multiphase Technology) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17654 | Galvanic Interactions Between Surface Layers And Bare Carbon Steel In Aqueous CO ₂ Environments | Joshua Owen and Richard Barker (University of Leeds), Francois Ropital, Gaurav Joshi, Jean Kittel (IFP Energies Nouvelles) |
| 1:25 p.m. | C2022-17926 | Brake Pads: Effect Of Galvanic Current On The Corrodibility Of Friction Materials And Backplates | Federico Bertasi, Alessandro Mancini, Andrea Bonfanti, Arianna Pavesi, Bozhena Tsyupa, and Marco Bandiera (Brembo S.p.A) |
| 1:50 p.m. | C2022-17792 | Spatial Variation Analysis Of Localized Corrosion Of Steel Bar With Spectral Analysis Technique | Fujian Tang, Hong-Nan Li, and Lizhi Zhao (Dalian University of Technology), Charlotte Van Steen and Els Verstrynghe (KU leuven), Hong Pan and Zhibin Lin (North Dakota State University) |
| BREAK | | | |
| 2:35 p.m. | C2022-17846 | Formicary Corrosion And EAC Of Copper Tubes In Contact With Building Sealant | Kimberly Steiner (Wiss, Janney, Elstner Associates, Inc.) |
| 3:00 p.m. | C2022-17585 | Localized Corrosion Management For Thermally Insulated Systems Via Insulation Stand-Offs And Low Point Drains | Ahmad Raza Khan Rana and Graham Brigham (Integrity Products & Supplies, Inc.), George Jarjoura and Omar Chaar (Dalhousie University) |



To me, the most important aspect about this conference is bringing the coatings industry together. Coatings is everywhere and if we can make it known how important everything about coatings is to the world, we can help make the world better.

- Kenneth Stanton,
International Union of Painters and Allied Trades



Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Multi-Functional Coatings

Chair: Homero Castaneda-Lopez | Vice Chair: Nikole Kucza | 8:00 a.m. - 3:30 p.m. | Room 214 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18395 | Accelerated Corrosion Testing Of Cold Spray Coatings On 304L In Chloride Environments | Erin Karasz, Jason Taylor, Rebecca Schaller, and Timothy Montoya (Sandia National Laboratories); Ken Ross (Pacific Northwest National Laboratory), |
| 8:35 a.m. | C2022-18478 | Adhesion Durability Of Coatings On Aluminum Alloys Using The Blister Test, Digital Image Correlation, And Finite Element Methods | Drishya Dahal, Brendy Rincon Troconis, and David Restrepo (University of Texas at San Antonio) |
| 9:00 a.m. | C2022-18384 | Corrosion Performance Of Chromized Type 409 Stainless Steel In A Simulated Inorganic Hydrothermal Liquefaction Conversion Solution | Elliott Asare and Joseph Kish (McMaster University), Yimin Zeng (Natural Resources Canada - CanmetMATERIALS) |
| 9:25 a.m. | C2022-18456 | Corrosion-Resistant Sacrificial Metallic Coatings With An Ability To Release Inhibitor On Demand | Chathuranga Witharamage and Ahmed Darwish (North Carolina State University), Mohammed Alrizqi, Rajeev Gupta |
| BREAK | | | |
| 10:10 a.m. | C2022-18391 | Effect Of Hbn Exfoliation Method On Barrier And Corrosion Inhibition Performance Of Epoxy-Hbn Nanocomposite Coatings | Darlyn Quiroz Fonseca and Homero Castaneda-Lopez, (Texas A&M University), Ahmed Abdala and Yusra Ahmed (Texas A&M University, Qatar Campus) |
| 10:35 a.m. | C2022-18376 | Improving Zinc-Rich Epoxy Primer With Lamellar Zinc Incorporation | Zehbour Panossian (IPT - Institute for Technological Research); Alessandra Motta, Danae Francisco, and Marília Menossi (FIPT - Fundação de Apoio ao IPT); Neusvaldo de Almeida (IPT Estado de Sao Paulo), Paloma dos Santos (Fundação de Apoio ao Instituto de Pesquisas Tecnológicas) |
| 11:00 a.m. | C2022-18500 | Machine Learning Approaches To QSAR Modelling Of Pyridine-Based Corrosion Inhibitors Of Mild Steel In Hcl | Taiwo Quadri and Omolola Fayemi (North-West University); Eno Ebenso (University of South Africa); Lukman Olasunkanmi (Obafemi Awolowo University) |
| 11:25 a.m. | C2022-18523 | Microbial Induced Corrosion Protection By Single-Layer Graphene Coating On Single Crystal (111) Copper | Md Mahmudul Hasan, Alexey Lipatov, Jasthi Bharat, Jawahar Kalimuthu, and Pawan Sigdel (South Dakota School of Mines & Technology); Venkataramana Gadhamshetty |
| LUNCH | | | |
| 1:00 p.m. | C2022-18480 | One-Coat Anticorrosive Non-Skid Coating System | Ted Hammer (Tesla NanoCoatings) |
| 1:25 p.m. | C2022-18374 | Poly(Phenylene Methylene) & Its Derivatives: The New Generation Of Smart, Self-Healing And Corrosion Protective Coating | Marco D'Elia (ETH Zurich) |
| 1:50 p.m. | C2022-18432 | Promising Biobased Organic Corrosion Inhibitor Libraries Derived From Pyrones | George Kraus, Brent Shanks, Jiajie Huo, and Kyle Podolak (Iowa State University) |
| BREAK | | | |
| 2:35 p.m. | C2022-18477 | Thermal Amorphous Barrier | Richard (Ian) MacMoy (Intermetallic Group, LLC), Joshua Jackson |
| 3:00 p.m. | C2022-18482 | Understanding The Exceptional Chloride-Induced Stress Corrosion Cracking Resistance Of Stainless Steel 304L Cold Spray Coating | Haozheng Qu and Janelle Wharry (Purdue University); Eric Schindelholz and Gabriella Marino (The Ohio State University), Jayendran Srinivasan (Fontana Corrosion Center), Jenifer Locke (Materials Science and Engineering), Rebecca Schaller (Sandia National Laboratories) |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Pipeline Crossings: Steel-Cased, Thrust-Bored, and HDD

Chair: Michael Snow | Vice Chair: Cay Strother | 8:00 a.m. - 10:00 a.m. | Room 302 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17518 | Corrosion Protection Status And Countermeasures Of Shield Tunnel Pipeline | Huatian Xu (Pipechina Pipeline R&D Center) |
| 8:35 a.m. | C2022-17785 | Horizontal Directional Drilling In External Pipeline Coating Integrity | Eric Pintueles (Pipeline Corrosion Specialists) |
| 9:00 a.m. | C2022-17633 | Laboratory And Full-Scale Qualification Of An Abrasion Resistant Overcoat Wrap | David Futch and Chris Alexander (ADV Integrity, Inc.), David D'Ambrosio and Tre Bischof (Polyguard Products Inc.) |
| 9:25 a.m. | C2022-17762 | Risk Evaluation Of Potential Coating Damage From HDD | Ron Raphoon (Ron Raphoon) |



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– Kenny Jaros, Tank Maintenance Coordinator, New Jersey American Water

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Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Pipeline Integrity (Day 1)

Chair: Tod Barker | Vice Chair: Pabba Satish Kumar | 8:00 a.m. - 3:30 p.m. | Room 304 ABC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18216 | A Methodology, Database, And Maps For Seasonally-Adjusted Soil Resistivity | Thomas Hayden and Joseph Mazzella (Engineering Director, Inc.); Alfonso Garcia Rojas and Len Krissa (Enbridge Pipelines, Inc.), Paul Murray (Personal) |
| 8:35 a.m. | C2022-18130 | A Real-Time Matrix Based Corrosion Monitoring System | Hanne Martinussen and Fredrik Sandquist (Sensorlink AS) |
| 9:00 a.m. | C2022-17635 | A Remote Monitoring System Featuring GPS Synchronized Instant-Off Potential And Line-Current Measurements | Andreas Junker Olesen and Lars Nielsen (MetriCorr Aps) |
| 9:25 a.m. | C2022-17587 | Case Study: Foreign Operator DC Interference On An Existing Pipeline Systems | Jessica Jaskolka (EN Engineering LLC) |
| BREAK | | | |
| 10:10 a.m. | C2022-17825 | Composite Repairs And Cathodic Protection | David Futch (ADV Integrity), Casey Whalen and Davie Peguero (ClockSpring NRI), Stephen Barnett (CSNRI) |
| 10:35 a.m. | C2022-17692 | Corrosion Control In Water Injection Pipelines | Jonathan Marsh (Dubai Petroleum) |
| 11:00 a.m. | C2022-18155 | Corrosion Under Pipe Supports - Beyond Simply Inspection | Connor Tiegs (Ovolifts) |
| 11:25 a.m. | C2022-17508 | Datascience To Enhance Pipeline Maintenance | David Toschini, Anthony Dequick, Marketa Pichlova Lallementova, and Masson Bernard (GRTgaz), Thomas Zamojski (DATA STORM) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17813 | Decision Making Under Uncertain Erosion Conditions Using The Probabilistic Model | Guanlan Liu, Francois Ayello, Jose Vera, Rick Eckert (DNV GL) |
| 1:25 p.m. | C2022-18065 | Detection And Location Of Coating Defects And Disbondments On Buried Pipelines With Differential Reflectometry Mapping | Tristan De Servins (Heuristech), Homero Castaneda-Lopez |
| 1:50 p.m. | C2022-17665 | Erosion Corrosion Phenomena In Oil And Gas Facilities: Evaluation And Monitoring | Mioara Stroe, Igor Pipas, Laurent Dehays, Raquel Araujo, Rheingold Kuate Teku (Total EP Angola); Francisco-Mateus Garcia (Petrofac Facilities Management), |
| BREAK | | | |
| 2:35 p.m. | C2022-17532 | Extending the Life of an Ageing Forty Two Years Old Offshore Wet Crude Pipeline | Faisal Al-Abbas (Saudi Aramco) |
| 3:00 p.m. | C2022-18147 | Frequency Analysis Provides Insights During Close Interval Surveys | Elizabeth Nicholson (Cathodic Technology Ltd) |

Monday, March 7

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Real Time Corrosion Monitoring for Process Applications: Technology, Experiences, Case Studies

Chair: Xiaoji Li | Vice Chair: I-Wen Huang | 8:00 a.m. - 12:00 p.m. | Room 221 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17804 | Metallic Film-Coated Optical Fiber Sensor For Corrosion Monitoring At High Pressures | Ruishu Wright, John Baltrus, Margaret Ziomek-Moroz, and Michael Buric (National Energy Technology Laboratory); Nathan Diemler (National Energy Technology Laboratory/ Leidos); Paul Ohodnicki (University of Pittsburgh) |
| 8:35 a.m. | C2022-18211 | Development Of Technique For In-Situ Measurement Of Oxide Film Thickness In High Pressure And High Temperature Environments | Florent Bocher and Jeffrey Boehme (Southwest Research Institute) |
| 9:00 a.m. | C2022-17777 | Monitoring Localized Corrosion Distribution Of Steel Bar In Concrete With OFDR Distributed Optical Fiber | Fujian Tang, Hong-Nan Li, Jialiang Hu, and Liang Ren (Dalian University of Technology); Els Verstrynghe (KU leuven), |
| 9:25 a.m. | C2022-17820 | Development Of For Multifunctional (Pit Detection + ER) Corrosion Monitoring Probe For Oil And Gas Internal Pipelines | Byeong Ho Ki and Cheolho Kang (NEXCORR) |
| BREAK | | | |
| 10:10 a.m. | C2022-17489 | Continuous Corrosion Monitoring In HF Alkylation Units Including The Effects Of Iron Fluoride Scale Build-Up | William Fazackerley (Emerson Automation Solutions) |
| 10:35 a.m. | C2022-17859 | Evaluation Of The Impact Of Iron Oxide Deposit On The Eddy Current (ECT) Measurements Of Heat Exchanger Nickel Tubes | Muazu Mohammed (Flat 3), Aamir Saddiq |
| 11:00 a.m. | C2022-17611 | IOW Analysis With Installed UT Sensors: How Process Changes Impact Corrosion Rates | Mitch Gribi (Sensor Networks, Inc.), Ivan Morales (Exxon Chemical Co Accts Payabl), Rebecca Franco, Rebecca Henderson (ExxonMobil), Zackary Lerch (Zackary Lerch) |
| 11:25 a.m. | C2022-17646 | Aggregating And Standardizing Disjointed Integrity Management Data | Robert Floria (Lake Superior Consulting, LLC), Alfonso Garcia Rojas (Enbridge Pipelines Inc.) |

“

To me, the most important aspect of this conference is learning about the new technologies and products.”

- Fernando Bedon, EP Petroecuador

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AMPP is the largest global community of professionals dedicated to materials protection through the advancement of corrosion control and protective coatings practices, technologies, and workforce expertise.

Born from the merger of NACE International and SSPC, AMPP is built on the rich history of these two respected organizations.

Its membership is diverse, representing every industry and various disciplines: coatings professionals and contractors; technicians and inspectors; engineers, researchers, and academics. Its members, however, are united in their commitment to personal growth and the maximum performance, integrity, and safety of society's assets and infrastructure.

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The Association for Materials
Protection and Performance



Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Speakers' Breakfast

7 to 8:30 a.m. | HemisFair Ballroom C3

Presenters for RIP, RTS, and Technical Symposia are invited to join their colleagues for breakfast on the day in which they are scheduled to present.

● Guest Breakfast

7:30 to 9:30 a.m. | Grand Hyatt San Antonio, Bowie AB

Guest Breakfast is for individuals that purchase the Guest Program Registration only and are not for attendees to the conference.

▲ Advanced Protective Coating Technology - Day 2

8 to 9:30 a.m. | Room 210

Chair: Benjamin Chang | Vice Chair: Matt Dabiri

This symposium features technical papers that cover the following themes: (1) Rust Creepage Mechanism, (2) Cathodic Disbondment Mechanism, (3) Coating Blister Mechanism, (4) CUI Coatings, (5) Salt Decontamination Chemicals, (6) Offshore Coating Evaluation Methods, (7) Offshore Windmill Coatings, (8) Nanotechnology, and (9) Passive Fire Protection.

▲ Flow Assurance in Oil and Gas Productions - Day 2

8 to 10:30 a.m. | Room 301 BC

Chair: Qiwei Wang | Vice Chair: Zhengwei Liu

This symposium features technical papers on flow assurance, which is critical for the safe, economic, and efficient oil and gas recovery and processing. This symposium will present the new advancements in understanding and technical solutions related to corrosion, scale, and other oilfield chemistry issues in hydrocarbon production and transportation, covering modeling, laboratory investigations, and field case studies.

● AMPP Chapter Leadership Office

8 to 11 a.m. | Room 006A

Are you a new AMPP Chapter leader? Do you have questions about your new officer role or need help with the procedures and toolkits related to chapter leadership? Stop by at your convenience and have AMPP staff answer your most pressing questions.

▲ Geothermal Scaling and Corrosion

8 a.m. to 11:30 a.m. | Room 221 D

Chair: Sigrun Karlsdottir | Vice Chair: Keith Lichti

This symposium features technical papers on geothermal system scaling and corrosion. The aim is to promote discussion of scaling and corrosion in geothermal energy systems. Papers are sought that provide insight on the impact of production,

process and reinjection conditions on materials, and process efficiency. Descriptions of research activities, failure analysis, and successful implementation of new technologies may be included.

● Career Fair

8 a.m. to noon | HemisFair Ballroom C2

Whether you are a student, new to the industry, or a corrosion expert, take advantage of the Career Fair. Our goal is to assist you with your career and recruitment needs.

▲ Coating Application

8 a.m. to noon | Room 213

Chair: Ahmad RK Rana | Vice Chair: Mohamed Ahmida

This symposium features technical papers on various application methods that include coating concrete, electrostatic spray, pipeline coatings, plural components, powder coatings, thermal spray, and waterjetting.

● Digital Asset Transformation - Driving Value for Corrosion & Asset Integrity Forum

8 a.m. to noon | Room 207 AB

Presented by Jason Moral, Kinder Morgan; Bob Adey, Beasy; Floyd Baker, Antea North America; Ellie Lynch EN Engineering and Cecilie A Haarsest, ExxonMobil

This forum will discuss recent developments and industry trends in digital technologies for corrosion and integrity management. Many industry sectors are seeking to increase efficiency and reduce costs through the application of digitalization and technologies such as 3D visualization and the Internet of Things. The transforming potential in data capture, information management and analytics, and the possibilities for implementing artificial intelligence, can reduce risk and facilitate better decision making. They are fully applicable to the management of corrosion and asset integrity regardless of industry type. Approaches from different industries covering a broad range of topics on these new developments from both technology providers and end users will be discussed.

The Forum includes presentations from EN Engineering, Kinder Morgan, Antea North America, Beasy & ExxonMobil. The discussion will be facilitated by probing with key questions to understand how we can remove barriers and create more value. E.g. What do you actually need to make timely decision and is your digitalization targeting that? Does your digital view match reality? How do you verify collected/inputs data? What are the weaknesses of the current data capture tools that are available?

▲ SC 11 - Electric Power

8 a.m. to noon | Room 221 B

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ SC 09 – Nonmetallic

8 a.m. to noon | Room 301 A

▲ AC Interference, AC Induced Corrosion, AC Risk Assessment, Monitoring and Mitigation Details

8 a.m. to 12:30 p.m. | Room 302 BC
Chair: Shane Finneran | Vice Chair: Casey Heinrich

This symposium features technical papers on alternating current (AC) interference on buried pipelines, AC-induced corrosion, AC risk assessment, monitoring, and mitigation.

▲ Military Coatings and Corrosion

8 a.m. to 12:30 p.m. | Room 221 C
Chair: Patrick Cassidy | Vice Chair: Charles White

This symposium includes technical papers and research on identification, causes, and control of corrosion and materials degradation for military air, ground, and ship systems, as well as electronic systems, support equipment, and infrastructure.

▲ RIP- Advanced Analytical Techniques

8 a.m. to 12:30 p.m. | Room 214 C
Chair: Rajeev Gupta | Vice Chair: Joey Kish

This RIP symposium will cover recent advances made in understanding corrosion using state-of-the-art electroanalytical techniques and also other "real time" or in situ characterization techniques. The topics of interest include corrosion studies using electroanalytical methods such as scanning electrochemical microscopy, scanning vibrating electrode technique, scanning kelvin probe force microscopy, scanning droplet cell microscopy, and local electrochemical impedance spectroscopy. This session will also cover "real time" spectroscopic methods used in corrosion monitoring such as online inductively coupled plasma-atomic emission spectroscopy and in situ corrosion investigations using either optical, x-ray or electron-based methods.

▲ RIP - Environmentally Assisted Cracking

8 a.m. to 12:30 p.m. | Room 214 A
Chair: Jenifer Locke | Vice Chair: Brendy Rincon Troconis

This RIP session will focus on all aspects of environment-assisted cracking, with a specific focus on, but not limited to, cracking of stainless steels, magnesium, aluminum, and nickel alloys. Studies related to the resistance of materials to the initiation and growth of cracks during stress corrosion cracking and corrosion fatigue are encouraged. In addition, studies related to the development of novel techniques to monitor crack initiation and growth, including, pit-to-crack transition, testing protocols/environments, and life prediction models are welcomed. The focus should be on the most current results and research in progress.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

▲ Advances in Materials for Oil and Gas Production - Day 2

8 a.m. to 3:30 p.m. | Juan O'Gorman Room 005
Chair: Filippo Cappuccini | Vice Chair: Julio G. Maldonado

This symposium features technical papers on present advances in materials technology and research for oil and gas. The focus is on new and improved metallic materials and applications. This includes consideration and evaluation of the material's performance in its envisaged exposure environment. Papers on field experiences, failure analysis, and mitigation through metallurgical innovative solutions are included.

● Headshot Station

8 to 5 p.m. | Level 2, Across Room 217A

Did you know that LinkedIn profiles with headshots get 21 times more views than profiles without a photo? A professional headshot doubles your chances of getting noticed or hired! Stop by the Headshot Station to update your look and professional profile.

This is your opportunity to update your LinkedIn profile or web page bio (personal, corporate, non-profit) and make a lasting first impression!

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Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ Microbiologically Influenced Corrosion - Day 1

8 a.m. to 5 p.m. | Room 217 A

Chair: Jason Lee | Vice Chair: Torben Lund Skovhus

This symposium features technical papers on how corrosion in the natural world is concomitant with biological processes due to the ubiquity of microorganisms. Advances in metagenomics has provided unprecedented exploration of microbial fauna where previous investigations were constrained by challenges of culturing or enigmatic relationships between microbe function to the overall corrosion influencing community processes. Papers presented during this symposium will explore and explain hard-won learnings in this realm of study.

▲ Refining Industry Corrosion

8 a.m. to 5 p.m. | Room 303 ABC

Chair: Abbey Wing | Vice Chair: Joe Yin

This symposium features technical papers on corrosion and material issues within the refining industry. Topics will explore case histories, materials/coatings performance, corrosion mechanisms, failure analysis, etc.

▲ RIP - Corrosion of Reinforced Concrete Structures (in Memoriam of Prof. Jose Antonio Gonzalez)

8 a.m. to 5 p.m. | Room 214 B

Chair: David Bastidas | Vice Chair: Nick Birbilis

This RIP symposium will cover the overall aspects of corrosion of steel in concrete as regard to building, construction, architecture, and infrastructure including reinforced concrete structures, offshore and onshore infrastructure, bridges, and concrete pipelines. Different aspects of corrosion of steel in concrete will be covered including pitting corrosion, uniform corrosion, chloride corrosion threshold, carbonation influenced corrosion, new cementitious materials, new geopolymer concrete, fly ash concrete corrosion, stress corrosion cracking, fatigue corrosion, weld joints corrosion, corrosion inhibitors, electrochemical chloride removal, electrochemical realkalinization, new corrosion monitoring techniques, modeling, and simulation.

▲ SC 02 - External Coatings – Atmospheric

8 a.m. to 5 p.m. | Room 212

▲ Pipeline Integrity - Day 2

8 a.m. to 5:30 p.m. | Room 304 ABC

Chair: Tod Barker | Vice Chair: Pabba Satish Kumar

This symposium features technical papers on all aspects of pipeline integrity that can include pipeline integrity management, inspection, assessment, mitigation, operational

aspects, regulatory issues, present and upcoming technologies, methods, experiences, and case studies, be it new technologies, new inspection methodologies, or new analyses.

● WCO – Board of Directors

8:30 to 11:30 a.m. | Grand Hyatt San Antonio, Bowie C

● Zinc Coatings for Asset Protection by Land and Sea Forum

9 a.m. to noon | Room 208

Presented by Bernardo Duran, International Zinc Association; Alana Fossa, American Galvanizers Association; Mike Stroia, Commercial Metals Company; and Chad Martin, Great Western Joint Venture

Specifiers and asset owners have used zinc coatings for corrosion protection for structures, vessels, and infrastructure on land and marine applications for many decades due to their proven performance and cost-effectiveness. This presentation will discuss the different coating technologies from application and performance perspectives. This forum is designed for both beginners and seasoned AMPP members. Professionals new to the protective coatings world will learn about proven technologies, including the basics of electrochemical corrosion and how corrosion engineers utilize zinc to protect against it.

Experienced industry professionals will learn the breadth of applications and new developments in the zinc coatings world and how to specify and inspect them. The speakers, who have more than 60 years of combined experience in zinc coatings, will discuss steel and concrete substrates and reinforcement steel in concrete. The presentations will demonstrate the versatility of the application methods and provide new coating options for these structures.

● International Licensee & Partner Meeting

9 a.m. to noon | Room 225 B

▲ SC 25 - Accreditation Standards

9 a.m. to noon | Room 211

▲ Control of Corrosion in Oil and Gas with Inhibitors - Day 2

10 a.m. to noon | Room 217 C

Chair: Zineb Belarbi | Vice Chair: Pierre Mékarbané

This symposium features technical papers on the study of the application of corrosion inhibitors and/or scale/deposit inhibitors and their mechanisms of inhibition.

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ Protective Coatings Workshop

10 a.m. to 5 p.m. | Exhibit Hall

Want to stay current on the latest coatings developments and technologies available? AMPP is excited to announce the return of the Protective Coatings Workshop. This interactive workshop, designed for coatings applicators, inspectors, and contractors of all experience levels, will feature engaging discussion and presentations from coatings industry leaders, an introduction to new emerging technologies and techniques, and highlight best practices from experts. In addition, you will get the opportunity to network with fellow contractors, inspectors, and suppliers.

10:15 - 11:15am

Panel discussion on future of the protective coatings industry

Panelist include: Phil Mueller, DOW; Matt Menold, Alpine Painting & Sandblasting Contractors; Johnnie Miller, TX DOT; and a representative from Architectural Coatings and MPI.

11:15 – 11:45 a.m.

The Importance of Performance Standards and Quality Programs in the Architectural and Commercial Painting Industry

Presented by John Whalen, Master Painters Institute

11:45 – 1:00 p.m. Lunch

1 – 1:30 p.m.

Corrosion Under Insulation (CUI)

Presented by David Hunter, Hempel

1:30 – 2 p.m.

Inspection of Intumescent Fireproofing

Presented by Russell Norris, Sherwin Williams

2 – 2:30 p.m.

Inspection of Steel Substrate

Presented by Tony Serdenes, GPI

2:30 – 3 p.m. Break

3 – 3:30 p.m.

Personal Protective Equipment – Protecting Employees from Workplace Hazards

Presented by Charles Brown, GPI

3:30 – 4 p.m.

Concrete

Presented by Steven Reinstandler, Covestro

4 - 4:30 p.m.

Labor Shortages

Presented by Ken Seal and Anton Ruesing, IUPAT

4:30 – 5 p.m.

Aerospace

Presented by Terry Gabbert

Don't miss this unique opportunity expand your coatings knowledge and earn PDHs!

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● Titanium Grade Selection and Design Considerations for Chemical Process Equipment

11 a.m. to noon | AMPPiTheater 2

Presented by Chris Wilson, Uniti Titanium

This presentation will focus on the design criteria to be considered when utilizing various grades of titanium and titanium alloys for use in the chemical processing industry for pressure vessels, heat exchangers, tanks, piping systems, or other ancillary equipment.

● Student Poster Session - Day 2

12 to 2 p.m. | Exhibit Hall

To encourage student involvement in the field of coatings and corrosion technology, the AMPP Research Program Committee and BP sponsors a Student Poster Session at AMPP Annual Conference + Expo.

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● Novel Developments in <100 g/L Exempt-Solvent Free Polyaspartic Corrosion Topcoat to Address Future Regulations

1:30 to 2 p.m. | AMPPiTheater 2

With continued environmental concerns of VOCs and the growing health concerns of certain exempt solvents, development of higher solids coatings are important for safely reducing the environmental impact of Architectural and Industrial Maintenance (AIM) coatings. This presentation covers the development of a new high solids polyaspartic topcoat for corrosion protection systems <100 g/L VOC (>89% volume solids) without exempt solvents in anticipation of tighter future VOC and exempt solvent regulations. The new coating provides similar corrosion and weathering performance to current polyaspartic systems while retaining the applicator's desire for a sprayable pot life and enhanced productivity at high solids. Results for pot life, dry time, salt fog exposure, and QUV weathering will be shared to show comparable performance of the new coating to current polyaspartic corrosion coatings.

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Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Stop Data Corrosion Before It Happens

2 to 3 p.m. | AMPPiTheater 2

Presented by Becky Gibbs-Murray, American Innovations

Data corrodes, just like pipelines do. The first step to combatting bad data is to identify its source. This short course explores common causes and sources of poor data, and best practices on how to fight back against bad data. The cathodic protection (CP) industry lags behind the technology curve driving so much innovation and growth in other industries. As pipeline operators adopt relevant technology for gathering and storing CP data, workflow efficiency has increased. But those technologies are not always fully leveraged to improve data quality. Our data corrodes just like pipelines. Internal and external forces can create pinholes within our data without us ever seeing a problem. This severely reduces data quality and ultimately leads to failures in analysis. Bad data comes from a number of sources: manual data entry errors, misalignment errors, lack of completeness and over-completion, data conversions, limitations of software applications, limitations of data models, and loading large batches of data and integration with other systems. There are several ways to combat the negatives associated with bad data: leveraging data capture technology, data validation at the point of capture, data normalization, application, data quality auditing, metadata, data provenance, and choosing the correct application.

● Area Workshop

2 to 3:30 p.m. | Room 224

The AMPP Membership Program Committee is hosting an Area Workshop. The core purpose of this meeting is to solicit feedback for defining the purpose and function of Areas in AMPP. In addition, you will get the opportunity to share knowledge, network with your peers.

We encourage all AMPP Chapter leaders to attend this meeting.

● Certification Program Committee

2 -4 p.m. | Room 225 B

▲ Hydrogen Embrittlement and Stress Corrosion Cracking in Subsea Materials

2 to 4 p.m. | Room 301 BC

Chair: Sai Venkateswaran | Vice Chair: Mohammed Muaisub

The symposium features technical papers on the research and development of novel oil and gas or subsea applications involving the evaluation of materials for their susceptibility to hydrogen embrittlement by cathodic protection, and galvanic interactions or from other contributory sources of hydrogen where hydrogen sulfide (H₂S) is not believed to be the primary contributor to the mechanism damage and cracking.

▲ Materials and Cost of Corrosion

2 to 4 p.m. | Room 217 C

Chair: Barinder Ghai | Vice Chair: Sandra Le Manchet

This symposium features technical papers concerning the economic impact of corrosion and its implications on the global economy. Topics may include life cycle cost analysis, the cost of corrosion failure, and case studies that address a project's return on investment as a performance measurement.

▲ SC 13 - Corrosion Monitoring & Measurement

2 to 5 p.m. | Room 221 B

▲ SC 19 - Maritime

2 to 5 p.m. | Room 211

● Galvanizing, Metalizing, and Duplex Coatings for Bridge Preservation Forum

2 to 5 p.m. | Room 208

Presented by Kevin Irving, International Zinc Association; Sudhir Palle, University of Kentucky; Dr. Tom Langell, American Galvanizing Association; and Derrick Castle, Sherwin Williams

Corrosion of steel is a worldwide problem. This workshop will discuss the corrosion protection measures of galvanizing, metalizing, and duplex coatings that describe both DOT's and paint manufacturers' experiences in dealing with them. This will include hands-on demonstrations of adhesion tests of duplex coating on galvanized and metallized panels. There will be discussions from three different paint manufactures on using duplex coating for new steel. They will discuss measures on what needs to be taken into consideration for coating the galvanized/metallized steel. Slip and creep of faying surfaces will also be discussed. We will be able to show current case studies of galvanized bridges over 50 years old with no maintenance to date, meaning the first cost is still the same cost. We have case studies of metallized bridges over 20 years old with no maintenance. Duplex bridges will also be highlighted, with a current case study as well. If allowed, we could also do a live small outside demo of the metallizing process. This workshop will educate the beginner as well as the experienced AMPP members. They will learn of the cathodic protection of zinc and how it protects the steel substrate. These presentations will be very informal so the audience will be able to ask questions directly to the presenters.

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Materials Protection and Performance – Latin-America Experience in the Life Cycle

2 to 5 p.m. | Room 206 AB

Forum

Chair: Dr. Leonardo Uller, SURPLUS, AMPP Global Center Board of Directors Member

Presented by Annelise Zeeman, TECMETAL Soluções Tecnológicas em Materiais; Dannisa Chalfoun, YPF Tecnología, CONICET, Instituto Sabato; Fabián Sanchez, SLOM—Sociedad Latinoamericana de Operadores de Terminales Marítimos y Monoboyas; Mauricio Herrera, BLASTING EXPERTS; and Teresa Perez, TEP Consulting

This forum will share knowledge and best practices to reinforce AMPP's position as a global leader in the protection and performance of materials, bringing together some of the Latin American leading experts.

The lectures will address topics related to the materials life cycle such as design, manufacturing, failure investigation, and inspection. At the end, a panel session will be opened so that the public can interact with the speakers and other participants, providing a differentiated networking experience.

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● PHMSA Pipeline Safety Forum

2 to 5 p.m. | Mayor Cockrell Room 004

Presented by Kevin Garrity, MEARS; and Alan Mayberry, PHMSA; Amy Shank, Williams; and Vince Murchison, Murchison Law Firm

The Pipeline and Hazardous Materials Safety Administration (PHMSA) and AMPP members play a critical role in protecting the public from potential catastrophic failures of liquid/gas pipelines. Join policymakers, regulators, and industry experts for a discussion on how PHMSA and other agencies address corrosion in pipeline safety. The forum will provide both a regulator and industry perspective on best pipeline safety practices and the latest developments. The PHMSA Forum is your chance to hear an annual update from key PHMSA officials, discuss proposed rules that may be considered in 2022, and ask questions that matter most to you. Additionally, you'll have the opportunity to hear from fellow members and stakeholders on the latest trends in pipeline safety.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

▲ Recent Experiences with Nickel, Titanium, Zirconium and Other Corrosion Resistant Alloys

2 to 6 p.m. | Room 217 D

Chair: Ralph Bäßler | Vice Chair: Ajit Mishra

This symposium features technical papers related to the practical use and experience with corrosion-resistant alloys, including nickel base, titanium, zirconium, and other corrosion-resistant alloys.

● In-Ground Service Performance of 2-Layer Polyethylene Corrosion Coatings Including Laboratory Aging and Exposed Coatings Performance

2:30 to 3:30 p.m. | AMPPiTheater 1

Presented by Samuel Thomas, Liberty Coating Company

This presentation will address the performance of two-layer polyethylene coatings for in-service gas distribution pipelines. The presentation will also share results of laboratory aging of two-layer polyethylene coatings for thermal and hydrolytic aging and include documented coating properties that were exposed to UV from one year to 21 years.

● Corrosion Is Wide Awake...Dreams or Nightmares for Industrial Hygiene?

3:30 to 4:30 p.m. | AMPPiTheater 2

Presented by Sylvia Fontes, CIH, Forensic Analytical Consulting

This session will cover some of the basic health hazards associated with the coatings industry. These include silica, lead, beryllium, and methylene chloride. The basic OSHA regulations regarding health and safety will be reviewed to give the beginner in the coatings industry a basic foundation to ensure a safe and healthy work environment.

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Scholarship Awards and EMERGING Leaders Bash: Celebrating Generation Next

Scholarship Awards Ceremony 7 to 8 p.m. | Aztec Theatre
The Grooves Band | Dancing 8 to 11 p.m.

Continuing the traditions of two great organizations, AMPP supports the future of our industry with an evening of recognition and celebration, acknowledging the accomplishments of our 2022 scholarship and award recipients. Individual tickets are \$75 and may be purchased at Registration.

To attend the Scholarship Awards Ceremony, you must have an EMERGING Leaders Bash ticket. Student registrants for AMPP receive a complimentary event ticket with their conference registration. Conference shuttles will be available for guests' transportation needs. Limited hosted bar.

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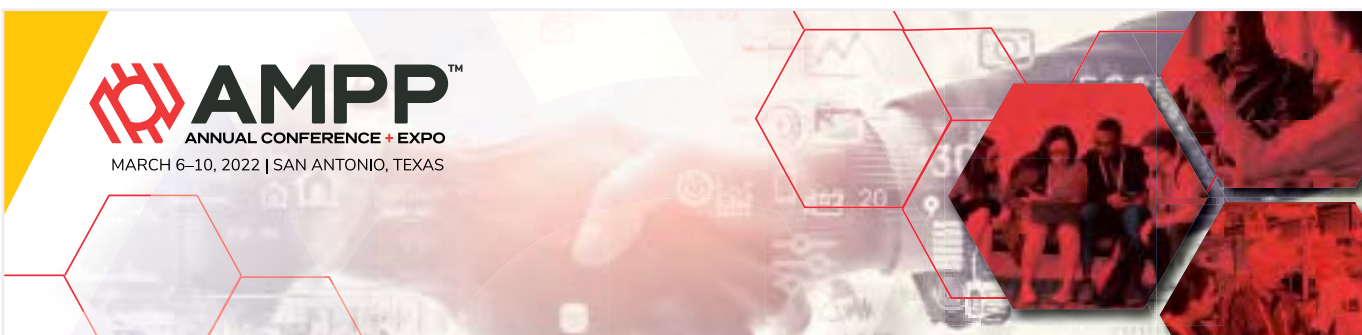


Scholarship Awards Sponsor



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LEADERSHIP FROM THE INSIDE OUT

8 a.m. to noon | Room 206 AB

It's tempting to view leadership through a results-driven mindset, focusing only on outcomes. But successful leadership relies on more than metrics. Diversity, inclusion, social responsibility, and ethical decision making are all crucial to a strong leadership culture. Leadership is not just a numbers game—it's a people project. By challenging ourselves to be better leaders, we can change the world...from the inside out. This forum will provide tools to learn how you can make a difference in your own leadership for yourself and your teams.

Hosted by: Stephanie Biagiotti Corey, Xcel Energy; and Kelsy May, MESA

Presented by:

- Kailey Dharam, Dairyland
- Jim Williams, IUPAT
- Kelsey May, MESA
- Nick D'Angelo

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Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

AC Interference, AC Induced Corrosion, AC Risk Assessment, Monitoring and Mitigation Details

Chair: Shane Finneran | Vice Chair: | 8:00 a.m. - 12:30 p.m. | Room 302 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17517 | Case Analysis Of Electromagnetic Interference Of AC Substation On Pipeline | Jin Su (Sino-Pipeline International Company Ltd.) |
| 8:35 a.m. | C2022-17786 | Case Study - Sharing An AC Mitigation System | Hycem Bahgat, Daniel Hebb, and Sorin Segall (Corrosion Service Co. Ltd.); Ernesto Gudino (TransCanada Pipelines), Karl Shen (Inter Pipeline Ltd.), Shan Jiang (Shan), |
| 9:00 a.m. | C2022-17949 | Challenges Of Mitigating AC Interference Risks In A 107 Km Multi-Pipeline Corridor | Wolfgang Fieltsch (Stantec Consulting Ltd), Paul Murray (Personal) |
| 9:25 a.m. | C2022-17735 | Comparing AC Study Techniques In Addressing AC Corrosion Risk | Perry Ross (EN Engineering) |
| BREAK | | | |
| 10:10 a.m. | C2022-18151 | Comprehensive Laboratory Analysis Of AC Coupon Test Stations | Mehrooz Zamanzadeh, Anil Chikkam, George Bayer, and Martin Latona (Matergenics, Inc.); Kristi Hoffmann (Kern River Gas Transmission) |
| 10:35 a.m. | C2022-17839 | DC Decoupler Modelling To Predict The Effects Of Capacitance On CP Potential Surveys | Alexander Ristow (Lake Superior Consulting), Michael Tachick (Dairyland Electrical Industries) |
| 11:00 a.m. | C2022-17809 | Is Your CIS Data Accurate? | Phil Eggen, Jay Warner, and Randy Hilgart (Dairyland Electrical Industries) |
| 11:25 a.m. | C2022-17634 | Obtaining The Polarized Potential Under AC Interference | Andreas Junker Olesen and Lars Nielsen (MetriCorr Aps) |
| 11:50 a.m. | C2022-17725 | On-Site Parameter Measurements And Corrosion Coupon Tests Of Buried Pipeline Subject To AC Interferences Of High Speed Railway | Le Chen (Corrosion And Protection Center, USTB); Du Yanxia (University of Science and Technology Beijing); Jia Liu and Jianjun Li (China Petroleum Pipeline Engineering Co., Ltd.); Nianpei Tian and Yi Liang (University of Science and Technology Beijing) |

Advanced Analytical Techniques

Chair: Rajeev Gupta | Vice Chair: Joseph Kish | 8:00 a.m. - 12:30 p.m. | Room 214C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-18502 | A One Dimensional Crevice Experiment For Determining The Critical Factors Contributing To Crevice Corrosion Repassivation | Robert Lillard, Diana Muñoz Salgado, Shirin Mehrazi, and Yousef Shorrab (University of Akron) |
| 8:35 a.m. | C2022-18518 | Bulk And Nano-Scale Characterization Of Additively Manufactured Ti-6Al-4V: Effect Of Composition And Grain Orientation On Corrosion | Olivia Maryon, Michael Hurley, and Paul Davis (Boise State University); Jake Benzing (National Institute of Standards and Technology) |
| 9:00 a.m. | C2022-18434 | Detection Of Corrosion Using Millimeter Waves | Yshai Gabai (YAGO EEC), Amir Eliezer (Sami Shamoon College of Eng.) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|------------|-------------|---|---|
| 9:25 a.m. | C2022-18405 | Evaluation Of Structural Changes In Pipeline And Pressure Vessels Steels By NDT Method Measuring Steel Magnetic Property – Coercivity. Correlation Of Fracture Toughness And Magnetic Parameters Such As Magnetic Permeability, Coercivity And Others | Svitlana Savluk and Roman Solomakha (CM Diagnostics) |
| BREAK | | | |
| 10:10 a.m. | C2022-18535 | Hydrogen Trapping Capacity Of Nb Precipitates As Revealed By Atom Probe Tomography | Joseph Kish, Caroline Wojnas, and Darren Feenstra (McMaster University), Brian Langelier (Canadian Centre for Electron Microscopy, McMaster University), Joseph McDermid (GM Centre for Automotive Materials and Corrosion, McMaster University), Nicholas Senior (CanmetMATERIALS, Natural Resources Canada) |
| 10:35 a.m. | C2022-18494 | Investigation Of Localized Corrosion Phenomena In Al Alloys Using Characterization Techniques | Jijo Christudasjustus, Ahmed Darwish, Chathuranga Witharamage, Rajeev Gupta, and Wenpei Gao (North Carolina State University); Javier Esquivel (The University of Akron) |
| 11:00 a.m. | C2022-18333 | Investigation Of Preferential Weld Corrosion Of A Medium-Carbon-Steel Tube Exposed To CO ₂ By Immersion Tests, Galvanic Current Measurement And SVET Technique | Zehbour Panossian (IPT - Institute for Technological Research), Bruno Andrade, Marcos Henrique, Rodrigo da Silva Marques, and Thales Rosa Gomes (FIPT - Fundação de Apoio ao IPT), Ilson Palmieri Baptista, Petronio Zumpano Junior (Petrobras), Juliana Cardoso (Fundação de Apoio ao Instituto de Pesquisas Tecnológicas) |
| 11:25 a.m. | C2022-18489 | Measurement Of Adsorption Kinetics Of Quaternary Ammonium Type Model Inhibitor Compound On Gold Substrate Using Quartz Crystal Microbalance | Kushal Singla (Ohio University) |
| 11:50 a.m. | C2022-18404 | The Spontaneous Passivation Of Multi-Principal Element Alloys: Real-Time Kinetic Measurements With Element-Resolved Electrochemistry | Kevin Ogle and Xuejie Li (Chimie-ParisTech, Université PSL) |

Advanced Protective Coating Technology (Day 2)

Chair: Benjamin Chang | Vice Chair: Matt Dabiri | 8:00 a.m. - 9:30 a.m. | Room 210

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17832 | Laboratory Testing To Investigate If Coated Pipelines Are Safe For Transportation Of Hydrogen Gas | Amal Al-Borno, Moavin Islam, and Yuan Li (Charter Coating Service [2000] Ltd.); Jeffrey Rogozinski and Jigar Mistry (Sherwin Williams Company/The), |
| 8:35 a.m. | C2022-17584 | Effect Of Steel Surface Profile Peak Density On Rust Creepage | Russell Draper (Stantec), Michael Beamish (DeFelsko Corporation) |
| 9:00 a.m. | C2022-18021 | The Long Term Effects Of Surface Preparation: Evaluating ISO 12944 In Offshore Coating Application With Waterjetting And Cleaning Additive | Alexander Petkas (HoldTight Solutions Inc.), Jerry Woodson (Woodson Engineering LLC) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Advances in Materials for Oil and Gas Production (Day 2)

Chair: Filippo Cappuccini | Vice Chair: Julio Maldonado | 8:00 a.m. - 3:30 p.m. | Room 005 Juan O'Gorman

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18078 | Wide range of buffering capacity of HLP solution for long term HIC testing under mildly sour condition | Daichi Izumi ,Junji Shimamura, Kyono Yasuda, and Nobuyuki Ishikawa (JFE Steel Corp.); Eiji Tada (Tokyo Institute of Technology); Mitsuo Kimura (The University of Tokyo); Taishi Fujishiro (Nippon Steel Corporation); Takuya Hara (Tohoku University) |
| 8:35 a.m. | C2022-17778 | Corrosion Fatigue Of X80 Weld In Mild Sour Environment | Laurent Ladeuille (Vallourec Tubes France), Chih-Hsiang Kuo, Xin Yue, Yifei Zeng,(ExxonMobil Upstream Research Company); Florian Thebault (Vallourec Research Center France), Gregory Toguyeni and Richard Jones (Subsea7), |
| 9:00 a.m. | C2022-17707 | Sensitivity Study Of Typical Pipelines And Station Pipes In Hydrogen Environment | Zhiwen Yang, Min Feng, and Yingfeng Chen (Safetech Research Institute [Beijing] Co., Ltd.); Chong Wang, Fan Fei, Ke Shen, Na Zhao, Shun Zhou, and Yanjun Wang (Petrochina Beijing Gas Pipeline Co.,Ltd.) |
| 9:25 a.m. | C2022-17538 | Alloying Effect Of Mo In Martensitic Stainless Steel On Passive Film In H ₂ S-CO ₂ Environment | Kyohei Kanki, Hideki Takabe, Hisashi Amaya, and Katsuhiro Nishihara (Nippon Steel), Masayuki Sagara |
| BREAK | | | |
| 10:10 a.m. | C2022-17559 | Corrosion And Stress Corrosion Cracking Behavior Of Super 13Cr Martensite Stainless Steel In CO ₂ -Saturated High Temperature And High Pressure (HT/HP) Downhole Environments | Ze Zhou Wen, Anne Neville, Chun Wang, and Richard Barker (University of Leeds); Jiong Qian, Qiang Zhong, Yong Hua (Zhejiang JIULI Hi-Tech Metals Co. Ltd) |
| 10:35 a.m. | C2022-17563 | Environmentally-Assisted Cracking (SSC And SCC) Of Martensitic Stainless Steel OCTG Material In Sour Environment In 5%NaCl And 20%NaCl Solution | Yuichi Kamo, Yasuhide Ishiguro, and Yusuke Mizuno (JFE Steel Corp.) |
| 11:00 a.m. | C2022-17614 | Rethinking Sulfide Stress Cracking (SSC) Resistance Super Martensitic Stainless Steel (SMSS-13Cr) Bar Stock With 95 Ksi MY | Karthik Krishnan and Chad Glaesman (Halliburton) |
| 11:25 a.m. | C2022-17840 | Evaluation Of Titanium 475 Alloy For Use In Oil And Gas Environments | William MacDonald and Michael Gram (TIMET Titanium Metals Corp.); Dennis Dunlap (PCC Energy Group); Mike Hogan (OIL States Industries, Inc.) |
| LUNCH | | | |
| 2:00 p.m. | C2022-17720 | Development Of The Multipurpose High Strength Super Austenitic Stainless Steel UNS N08034 By Cold Working For Challenging Oilfield Environments | Julia Botinha, Bodo Gehrman, Clara Herrera, and Helena Alves (VDM Metals International GmbH), Helmuth Sarmiento Klapper (Baker Hughes INTEQ), Merlin Seifert (Deutsche Edelstahlwerke Speciality Steel GmbH Co. KG) |
| 2:25 p.m. | C2022-17960 | Optimisation Of Hydrogen Stress Cracking Resistance Of High Strength Precipitation Hardened Nickel Alloys | Stephen McCoy (Special Metals Corporation), Brian Baker (PCC Energy Group), William MacDonald (TIMET) |
| 2:50 p.m. | C2022-17766 | Environmentally Assisted Cracking Susceptibility Of Nickel Based Alloy 955 In A Sour Wellbore Fluid For HPHT Application | Arshad Bajvani Gavanluei (OneSubsea, A Schlumberger Company); Alexis Simon and Thodla Ramgopal (DNV); Manuel Marya and Vipul Shinde (Schlumberger) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Coating Application

Chair: Ahmad Raza Khan Rana | Vice Chair: Mohamed Ahmida | 8:00 a.m. - 12:00 p.m. | Room 213

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17509 | Corrosion Resistance Of FBE Internal Coating Pipe In High Temperature And High CO ₂ -H ₂ S-Cl- Environment | Xuehua Fan, Chang Liu, Gu Feng, Kun Fang Yong Yu (China Petroleum Engineering and Construction Corp. Beijing Company); Jinyang Zhu, Lei Zhang, Yunan Zhang (University of Science and Technology Beijing) |
| 8:35 a.m. | C2022-17995 | A Machine Vision Case Study Of U-Net Networks For Superficial Corrosion And Dirt Image Segmentation On Industrial Coated Steel Structures | Wesley Kaizer and Eduardo Amaro (Vidya Technology), Otavio Correa |
| 9:00 a.m. | C2022-18109 | Case Study Based On Failure And Application Of Surface Coating (Powder Coating) | Syed Umair Niaz Bukhari (Bureau Veritas), Ahmad Raza Khan Rana (Dalhousie University), |
| 9:25 a.m. | C2022-17829 | Defining High Performance At Low VOC: Waterborne Acrylic Dtms Under 25 G/L | Kathleen Auld and Matthew Padaon (The Dow Chemical Co.) |
| BREAK | | | |
| 10:10 a.m. | C2022-18100 | Finish Standards For Intumescent Cellulosic Fire Protection | Max Tritremmel (Sherwin Williams) |
| 10:35 a.m. | | Handling Extreme Environments With Supoxy Platform Technology | Justin Manuel and Chad Remy (Carboline) |
| 11:00 a.m. | C2022-17841 | Influence Of Ternary Additives On Electrochemical And Mechanical Behaviors Of Electroless Ni-P Coatings | Omar Chaar, Ahmad Raza Khan Rana, and George Jarjoura (Dalhousie University) |
| 11:25 a.m. | C2022-17831 | Mitigation Of CRU Heater Tube Carburization By Modified High Heat Transfer Ceramic Cladding Materials | Natalie Frank, Iain Hall, and Paolo Brunello (Integrated Global Services) |



Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Control of Corrosion in Oil and Gas with Inhibitors (Day 2)

Chair: Zineb Belarbi | Vice Chair: Pierre Mekarbane | 10:00 a.m. - 12:00 p.m. | Room 217 C (S)

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 10:10 a.m. | C2022-18053 | The Change Of Corrosion Inhibition Behavior Of Tetradecyl Phosphate Ester At Elevated Temperatures | Shuai Ren (Ohio University), David Young (ICMT), Maalek Mohamed-Said (TOTAL), Marc Singer (Ohio University), Sheyla Camperos (TRTG - TOTAL Research & Technology Gonfreville), Xi Wang, Yi He (Ohio University) |
| 10:35 a.m. | C2022-18006 | The Development Of Environmentally Acceptable Corrosion Inhibitors For Sour Applications | Jody Hoshowski (Schlumberger), Alyn Jenkins, Rolando Perez Pineiro (M-I SWACO a Schlumberger Co.) |
| 11:00 a.m. | C2022-17801 | The Effect Of Sulfur Components Of Corrosion Inhibitors On Chemical Qualification | Hunter Thomson, Caroline Simpson, Gordon Graham, Paul Hammonds, and Rodney Madjitey (Scaled Solutions Ltd.) |
| 11:25 a.m. | C2022-17752 | The Performance Of HPHT Corrosion Inhibitor At Offshore Downhole Sour Conditions | Youngil Choi, Bang Cha Rang Song, and Youngsun Yim (Unicoh Specialty Chemicals); George Economopoulos (Intertek) |

Corrosion of Reinforced Concrete Structures (in Memoriam of Prof. Jose Antonio Gonzalez)

Chair: David Bastidas | Vice Chair: Nick Birbilis | 8:00 a.m. - 5:00 p.m. | Room 214 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18476 | Novel Strategies On Magnesium Phosphate Cements Applications To Prevent Corrosion Of Steel In Concrete: A Pathway Towards Circular Economy | David Bastidas (The University of Akron), Digby Macdonald (University of California at Berkeley), Jose Bastidas (Centro Nacional De Invest Met), Nick Birbilis (Australian National University), Ulises Martin (The University of Akron) |
| 8:35 a.m. | C2022-18472 | Corrosion Rates Of Prerusted Steel In Concrete Without Admixtures | Carmen Andrade (Internacional Center of Numerical Methods in Engineering), Amparo Moragues and Andres Bonilla (Universidad Politecnica de Madrid Spain) |
| 9:00 a.m. | C2022-18483 | Modelling The Performance Of Reinforced Concrete Exposed To Marine Environments: DURACON Project 10-Year Evaluation | Oladis de Rincon (Universidad del Zulia/University of Texas at San Antonio), Andres Torres-Acosta, Manuela Salta (Laboratorio Nacional de Engenharia Civil), Miguel Pedron (Universidad de la República), Miguel Sanchez Gomez (Edificio Altair Torres), Pedro Castro Borges (Centro de Investigacion y de Estudios), Rosa Vera (Univ Catoitca Valparaiso), Valentina Millano Gonzalez (Luz CEC) |
| 9:25 a.m. | C2022-18447 | Upper Bound Estimate Of Corrosion Rate Of Steel In Concrete From Incomplete Impedance Data. | Alberto Sagues (University of South Florida), Christopher Alexander |
| BREAK | | | |
| 10:35 a.m. | C2022-18517 | Corrosion-Resistant Stainless Steel Strands For Prestressed Bridge Piles In Marine Atmospheric Environments | Brendy Rincon Troconis (University of Texas at San Antonio); Charles Demarest (UVA); H. Celik Ozyildirim and Stephen Sharp (Virginia Transportation Research Council); Jacob Wright (Luna), John Scully (University of Virginia) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|------------|-------------|--|---|
| 11:00 a.m. | C2022-18532 | Durability Of Underground Concrete Pipes In Chloride Environment | Arnaud Castel (UTS) |
| 11:25 a.m. | C2022-18473 | Durability In Design Of Light Rail Reinforced Concrete Structures. | William Nash (WSP Canada Inc.) |
| LUNCH | | | |
| 2:00 p.m. | C2022-18470 | Effect Of A Nitrate-Based Corrosion Inhibitor On Carbonation Induced Corrosion | Marco Ormellese, Andrea Brenna, Fabio Bolzoni, Maria Diamanti, Mariapia Pedferri, and Silvia Beretta (Politecnico di Milano) |
| 2:25 p.m. | C2022-18410 | Significance of Γ -Electrons In the Inhibition Performance of Organic Corrosion Inhibitors for Carbon Steel Rebars In Simulated Concrete Pore Solution | Ahmed Mohamed, David Bastidas, and Donald Visco (The University of Akron) |
| 2:50 p.m. | C2022-18506 | Evaluation Of The Organic Compound 1-Benzyl-4-Phenyl-1H-1,2,3-Triazole As A Green Corrosion Inhibitor On Carbon Steel Rebar In Synthetic Pore Solutions | Loreto Dacio and Brendy Rincon Troconis (University of Texas at San Antonio), Homero Castaneda-Lopez (Texas A&M University), Leonardo Alvarez (Escuela de Química, Universidad de Costa Rica [Sede Central]), Oladis de Rincon (Universidad del Zulia/University of Texas at San Antonio) |
| 3:15 p.m. | C2022-18440 | BTA Modified Hybrid Sol Gel Coating For Corrosion Protection Of Steel In Reinforced Concrete | Jacob Ress, David Bastidas, and Ulises Martin (The University of Akron) |
| BREAK | | | |
| 4:00 p.m. | C2022-18409 | An Experimental Methodology For Determination Of Chloride Threshold (CT) Of Steel Rebars In Simulated Concrete Pore Solution (SCPS) Based On AC And DC Electrochemical Methods | Yi Lu (Texas A&M University), Changkyu Kim, Deeparekha Narayanan, Homero Castaneda-Lopez |
| 4:25 p.m. | C2022-18318 | The Hydrochloric Acid Attack Of Reinforced Concrete In A Gold Refinery | Christian Paglia (SUPSI University of Applied Sciences of Southern Switzerland) |
| 4:50 p.m. | C2022-18474 | New Trends In Research Of Corrosion Of Steel In Concrete – A Critical Review | Burkan Isgor (Oregon State University), Ueli Angst (ETH ZURich) |

I share my knowledge daily at work, working to provide better quality of products and services for customers by sharing my experiences and training with others.

- Guillermo Gray, Stewart and Stevenson

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Environmentally Assisted Cracking

Chair: Jennifer Locke | Vice Chair: Brendy Rincon Troconis | 8:00 a.m. - 12:30 p.m. | Room 214 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18380 | Accelerated Methods To Evaluate Environmentally Assisted Cracking Using The Rising Step Load Method | Joshua Jackson (US Corrosion Services), Craig Tod (Lou Raymond and Associates), Louis Raymond (LRA Laboratories) |
| 8:35 a.m. | C2022-18501 | Combining FEM And Fracture Mechanics For A Materials Selection Framework To Mitigate Hydrogen Embrittlement | Rebecca Skelton, James Burns, Robert Kelly, and Zachary Harris (University of Virginia) |
| 9:00 a.m. | C2022-18422 | Effect Of Size And Size Distribution Of Nb-Bearing Precipitates On Hydrogen Trapping Capacity Of Model Fe-C-Mn-Nb Steel | Sara Filice and Joseph Kish (McMaster University), Dmitrij Zagidulin (Western University), James Noel (University of Western Ontario), Joseph McDermid (GM Centre for Automotive Materials and Corrosion, McMaster University) |
| 9:25 a.m. | C2022-18493 | Evaluating The Role Of Possible HEAC In Humidity-Dependent Small-Scale Cracking In Austenitic Stainless Steels | Jayendran Srinivasan, Eric Schindelholz, and Jenifer Locke (The Ohio State University), Rebecca Schaller (Sandia National Laboratories) |
| BREAK | | | |
| 10:10 a.m. | C2022-18507 | Investigating The Effect Of Applied Polarization During Stress Corrosion Cracking Of AA6111 And Starting To Connect This Effect To Changes In Crack Tip pH | Katrina Catledge, Gabriella Montiel, and Saba Navabzadeh Esmaeely (Ohio University); Jenifer Locke (Materials Science and Engineering) |
| 10:35 a.m. | C2022-18425 | Oxidation Studies Of Ni-Cr-Al Model Alloys And The Effect Of Third Element At Low-To-Intermediate Homologous Temperature | Yasaman Ghaffari, Kevin Daub, and Suraj Persaud (Queen's University) |
| 11:00 a.m. | C2022-18426 | Permeation And Thermal Desorption Spectroscopy Of Two Carbon Steel Grades | Bernd Loder (Montanuniversitaet Leoben), Gregor Mori (University of Leoben) |
| 11:25 a.m. | C2022-18452 | Stress Corrosion Cracking Of Austenitic Stainless Steels In Concentrated Chloride Environments | Ryan Katona, Andrew Knight, Brendan Nation, Charles Bryan, Erin Karasz, Jason Taylor, and Rebecca Schaller (Sandia National Laboratories) |
| 11:50 a.m. | C2022-18512 | Understanding The Role Of Temperature On The Corrosion Fatigue Of AA7085-T7451 In Full Immersion And Atmospheric Environments | Brandon Free (The Ohio State University - Fontana Corrosion Center), Jason Niebuhr, Nathan Houser, and Sarah Galyon Dorman (SAFE Inc.), Jenifer Locke (Materials Science and Engineering), |

Tuesday, March 8

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Flow Assurance in Oil and Gas Productions (Day 2)

Chair: Qiwei Wang | Vice Chair: Zhengwei Liu | 8:00 a.m. - 12:30 p.m. | Room 301 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17911 | Corrosivity Laboratory Investigations Of Streams Associated With Gas Compression Plants And Liquid Separation Stations | Yahya Al-Janabi (Saudi Aramco) |
| 8:35 a.m. | C2022-17787 | Dual Functional Corrosion Inhibitor Design And Testing For Top-Of-Line And Bottom Of Line Corrosion | Larry Chen, Jonathon Wylde, Michael Sim, and Nihal Obeyesekere (Clariant Oil Services) |
| 9:00 a.m. | C2022-17586 | Failure On Heater Treater Tubes - Case Study | Roxanna Alvarez (Vysus Group), Carlos Palacios (CIMA-TQ, LLC), Jose Vera (DNV) |
| 9:25 a.m. | C2022-18215 | Improving Scale Management Using ESEM Bulk Scale Analysis | Steve Heath, Marius Stamnes, and Ole Dronnen (Scale Protection) |
| BREAK | | | |
| 10:10 a.m. | C2022-17676 | A Further Look At The Impacts Of Corrosion Inhibitor On Scale Prevention | Qiwei Wang and Tao Chen (Saudi Aramco) |

Geothermal Scaling and Corrosion

Chair: Sigrun Karlsdottir | Vice Chair: Keith Lichti | 8:00 a.m. - 12:30 p.m. | Room 221 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17732 | Corrosion Testing Of Graphene-Oxide-Polymer Coatings For Geothermal Drilling Applications | Erlend Straume, Arna Ormsdottir, and Baldur Gunnarsson (University of Iceland), Beatriz Rodríguez (Graphenea SA.), Gifty Oppong Boakye, Sigrun Karlsdottir |
| 8:35 a.m. | C2022-17969 | Advanced Materials For Condensing Heat Transfer | Imran Bhamji, Alan Taylor, Anna Wojdyla-Cieslak, Garima Mittal, and Shiladitya Paul (TWI Ltd) |
| 9:00 a.m. | C2022-17675 | Development Of High Velocity Oxygen Fuel (HVOF) Corrosion Resistant Coatings; A Comparison Between Novel High Entropy Alloy (HEA) And Conventional Cermet Coatings For Geothermal Applications | Gifty Oppong Boakye, Arna Ormsdottir, Baldur Gunnarsson, Erlend Straume, and Sigrun Karlsdottir (University of Iceland); Andrew Tabecki and Feifei Zhang (TWI Ltd), |
| 9:25 a.m. | C2022-17708 | Integrated Coating System For Corrosion Protection Of Carbon Steel In Artificial Geothermal Brine | Ralph Baessler, Gabriela Aristia, and Hoa Le (BAM - Federal Institute for Materials Research and Testing) |
| BREAK | | | |
| 10:10 a.m. | C2022-17622 | Simulating Corrosion And Scale Interactions In Autoclave Experiments: A Sensitivity Study | Robert Jacklin, Anne Neville, Daniel Burkle, Joshua Owen, and Richard Barker (University of Leeds), Richard Woollam |
| 10:35 a.m. | C2022-17790 | On The Performance Of UNS S32100 vs N08825 Expansion Compensator Materials In Geothermal Applications | Keith Lichti (Keith Lichti), Soroor Ghaziof (Quest Integrity Group NZL Limited) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Hydrogen Embrittlement and Stress Corrosion Cracking in Subsea Materials

Chair: Sai Prasanth Venkateswaran | Vice Chair: Mohammad Al-Muaisub | 2:00 p.m. - 4:00 p.m. | Room 301 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 2:10 p.m. | C2022-17491 | Comments On Standards Development For Selection And Specification Of Subsea Materials | Russell Kane (iCorrosion LLC) |
| 2:35 p.m. | C2022-17768 | Environmentally Assisted Cracking Of Nickel Based Alloy 955 In Saltwater With Cathodic Protection For HPHT Application | Arshad Bajvani Gavanluei (OneSubsea, A Schlumberger Company), Manuel Marya and Vipul Shinde (Schlumberger); Thodla Ramgopal and Alexis Simon (DNV GL) |
| 3:00 p.m. | C2022-17796 | The Susceptibility Of Spheroidal Graphite Cast Iron To Hydrogen Induced Stress Cracking | Roy Johnsen and Ida Westermann (Norwegian University of Science and Technology), Atle Qvale (Subsea Design AS), Cathrine Hartung and Veronika Djupvik (Elkem AS) |
| 3:25 p.m. | C2022-18070 | The History Of Hydrogen Induced Stress Cracking (HISC) Failures Of Duplex & Super Duplex Stainless Steels (DSS/ SDSS) Due To Cathodic Charging And The Potential For Improvement In HISC Resistance | Glenn Byrne (Rolled Alloys), Geoffrey Warburton, and Roger Francis (RFMaterials) |

Materials and Cost of Corrosion

Chair: Barinder Ghai | Vice Chair: Sandra Le Manchet | 2:00 p.m. - 4:00 p.m. | Room 217 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 2:10 p.m. | C2022-17505 | Material Selection For Storage Tanks – Life Cycle Cost Analyses | Sandra Le Manchet (ArcelorMittal - Industeel) |
| 2:35 p.m. | C2022-17616 | Expected Service Life And Cost Considerations For Maintenance And New Construction Protective Coating Work | Jayson Helsel and Robert Lanterman (KTA-Tator Inc.) |
| 3:10 p.m. | C2022-17544 | Long-Term Cost Saving By Using High Alloyed Stainless Steel In Seawater Coolers | Jonas Höwing (Sandvik Materials Technology) |
| 3:35 p.m. | C2022-18146 | Life-Cycle Cost Evaluation Of Corrosion Mitigation Strategies In Mining Industry | Masoumeh Naghizadeh and Miqdaad Fatakawala, Yuri Savguira (Hatch Ltd) |



I look forward to getting back in front of customers and networking with clients. Introducing products, services and capabilities to customers in such a short period of time at AMPP is invaluable.

-Spencer Turpin, Deepwater Corrosion Services



Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Microbiologically Influenced Corrosion (Day 1)

Chair: Jason Lee | Vice Chair: Torben Lund Skovhus | 8:00 a.m. - 5:00 p.m. | Room 217 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-18009 | Impact Of Preservation Method, Storage Temperature, And Processing Time On Microbiological Community Shift In Solid Samples Collected From Crude Oil Transmission Pipelines | Lisa Gieg, Jennifer Sargent, Mohita Sharma, Nicole Taylor, and Yin Shen (University of Calgary); Trevor Place (Enbridge Pipelines Inc.), |
| 8:35 a.m. | C2022-17948 | Molecular Deep Dive Into Oilfield Microbiologically Influenced Corrosion: A Detailed Case Study Of MIC Failure Analysis In An Unconventional Asset | David Leach, Chao Yan, Dillon Mattis, Ron MacLeod, Wei Wang, and Wei Wei (Chevron Corporation) |
| 9:00 a.m. | C2022-17554 | Evaluation of A Rapid Solution For SRB Monitoring In Industrial Water System | Khlood Alramdan, Joseph Puthuvelil, Mohammed Tolaihy, and Salman Almutiry (Saudi Aramco) |
| 9:25 a.m. | C2022-17924 | A Case Study On Microbiologically Influenced Corrosion In Oil Producing Well Flowlines | Akhil Jaithlya (AKHIL JAITHLYA), Abeer Rashed, Amer Jaragh, Sandip Kuthe, and Sharad Londhe (Kuwait Oil Co.) |
| BREAK | | | |
| 10:10 a.m. | C2022-18204 | A Road Map For Innovation In Microbiologically Influenced Corrosion (MIC) In The Gas Pipeline | America Padilla and Rigoberto Arroyo Cortez (CINVESTAV) |
| 10:35 a.m. | C2022-17645 | Selection, Screening and Field Trial of Calcium Hypochlorite to reduce bacteria population in freshwater storage tanks in Williston, North Dakota, USA | James Fajt (Schlumberger Production Chemicals), Alyn Jenkins (M-I SWACO), Jarrod Hastie (M-I SWACO Production Technologies), Stephanie Iwuala Iwuala (Schlumberger) |
| 11:00 a.m. | C2022-18068 | Microbiologically Influenced Corrosion In Drinking Water Pipelines – Old Deposits Or Active Process? | Elsemie Croese (Microbial Analysis), Eelco Trietsch (Vitens N.V.), Jentina Schuurman (Vitens N.V.), Sabine Doddema (Microbial Analysis) |
| 11:25 a.m. | C2022-18089 | Effect Of Antimicrobial Halophilic Plant Extracts On Microbiologically Influenced Corrosion (MIC) | Tanmay Chaturvedi, Jakob Stein, and Mette Thomsen (Aalborg University), Torben Lund Skovhus (VIA University College) |
| LUNCH | | | |
| 2:00 p.m. | C2022-18235 | Upset Conditions In Anaerobic Digesters In Wastewater Treatment Plants Cause Degradation Of Protective Linings | Randy Nixon (Corrosion Probe Inc.) |
| 2:25 p.m. | C2022-17632 | Development Of An Efficient MIC Mitigation And Control Strategy In Pipeline Pigging Operations | Charles Armstrong (Solvay), Hejian Sun, Patrick Powell (Home), Yuxiu Liu |
| 2:50 p.m. | C2022-18017 | Microbiological Profile and Risk Exposures in Topside Production Systems of FPSOs in West Africa | Kingsley Oparaodu and Ibiba Braide (ChampionX Nigeria) |
| 3:15 p.m. | C2022-17793 | Microbiologically Influenced Corrosion Failure Of Ni-Coated Carbon Steel Fittings In Enhanced Oil Recovery Water Injection Service | Moavin Islam (Corrosion Forensics LLC), Amal Al-Borno (Charter Coating Service (2000) Ltd.), Chad Walz (Strathcona Resources) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| BREAK | | | |
|-----------|-------------|--|--|
| 4:00 p.m. | C2022-17852 | Failure Analysis Of Hydrotested 12-Inch Type 304 SS Pipe Sections | Sudhakar Mahajanam, Amilcar Oberto, Christopher Miller, Cody Robinson, and Scott Harding (Stress Engineering Services) |
| 4:25 p.m. | C2022-17545 | Failure of 24" Common Crude Piping and Formation of Iron Sulfides Due to the Influence of Sulfate & Iron Reducing Bacteria and Methanogens | Yousef Khuraibut (Kuwait Oil Co.) |
| 4:50 p.m. | C2022-17687 | Utilizing Corrosion Damage Morphology As An Indicator Of Microbiologically Influenced Corrosion (MIC) In Oilfield Waters | Moavin Islam (Corrosion Forensics LLC) |

Military Coatings and Corrosion

Chair: Patrick Cassidy | Vice Chair: Charles White | 8:00 a.m. - 12:30 p.m. | Room 221 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17579 | Characterizing Corrosion On AA-7075 Through Alternative Cleaning Methods And Optical Profilometry | Steven Kopitzke, Karla De Jesus Santiago, and Rachel Black (NAVAIR - NAWCAD) |
| 8:35 a.m. | C2022-17885 | Use Of The Corrosion Prognostic Health Management (CPHM) System On The Mi-24 Helicopter | Patryk Ciężak (Military University of Technology), Andrzej Leski (Łukasiewicz Research Network – Institute of Aviation), Piotr Synaszko (Air Force Institute of Technology) |
| 9:00 a.m. | C2022-17625 | Efficacy Of MIL-DTL-5541 Compliant Non-Chromate Conversion Coating Repair Materials | David Enos and Derek Wichhart (Sandia National Laboratories) |
| 9:25 a.m. | C2022-17799 | Salt Deposition On F-5 Aircraft In Various Service Environments | Christina Stewart and Christine Sanders (US Naval Research Laboratory) |
| BREAK | | | |
| 10:10 a.m. | C2022-18027 | Performing Coating And Corrosion Assessments To Maintain Military Fuel Piping | Adam Beers (KTA Tator, Inc.) |
| 10:35 a.m. | C2022-18170 | Atmospheric Plasma Coating Removal For Naval Engineering And Maintenance Applications | Glenn Astolfi, Arthur Wood, Levi Snowden, Pete Yancey, and Robert Ross (Atmospheric Plasma Solutions, Inc.) |
| 11:00 a.m. | C2022-17996 | 15.5-Year Inspection Reveals the Effectiveness of a Single-Coat Epoxy | Guy Zanti, Victoria Messina (Warren Environmental) |
| 11:25 a.m. | C2022-18178 | Novel Heat-Conducting "Metallic" Coatings Against Biofouling And Biocorrosion | Tingyue Gu (Ohio University), Di Wang (Ohio University - Main Campus), Timothy Hall (Faraday Technology, Inc.) |
| 11:50 a.m. | C2022-18184 | Water Based Flame Retardant Coating | Sachin Chavhan (The Sherwin Williams Co.) |

Tuesday, March 8

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Pipeline Integrity (Day 2)

Chair: Tod Barker | Vice Chair: Pabba Satish Kumar | 8:00 a.m. - 5:00 p.m. | Room 304 ABC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17812 | Guideline To Determine Erosional Velocity For Liquid Hydrocarbon Transmission Pipelines | Jose Vera, Francois Ayello, and Richard Eckert (DNV GL); Guanlan Liu, Prabhas Bhat (Plains All American) |
| 8:35 a.m. | C2022-18144 | ILI Validation – Overview And Case Studies | Ana Benz, Cameron Sjerve, Kurtis Bell, and Laurence Kuan (IRISNDT) |
| 9:00 a.m. | C2022-17504 | Impact Of Maintenance Activities On Future Integrity Of Transmission Pipelines | Haralampos Tsapraillis, Jiajun Liang, and Mike Hill (Enbridge Employee Services Canada, Inc.) |
| 9:25 a.m. | C2022-17629 | Inline Cathodic Protection Current Mapping - Applications | Dennis Janda (Entegra Solutions) |
| BREAK | | | |
| 10:10 a.m. | C2022-18050 | Internal Corrosion Direct Assessment (ICDA) For Dry Gas Transmission Pipelines | Nze Osuagwu (Duke Energy) |
| 10:35 a.m. | C2022-17962 | Laying the Foundation for an Engineered and Integrated Approach to Pipeline External Corrosion Protection | Keith Parker and Alfonso Garcia Rojas (Enbridge Pipelines Inc.); Christophe Baete (Elsyca NV), Dale Lindemuth, Johnston James, and Stephen Gibson (Corrpro) |
| 11:00 a.m. | C2022-18193 | Measuring Chemical Composition Of Pipeline Steel Using Laser Induced Breakdown Spectroscopy (LIBS) Technology | Brian Wilson (SciAps, Inc.) |
| 11:25 a.m. | C2022-17594 | Moisture Management In Thermal Insulations For In-Service And Out Of Service Pipelines | Ahmad Raza Khan Rana and Graham Brigham (Integrity Products & Supplies Inc.) |
| LUNCH | | | |
| 2:00 p.m. | C2022-18107 | Novel Solution For Corrosion Coupon Access Fitting Abandonment | Monica Fernandez, Badar Habsi, and Malik Shereiqi (Petroleum Development Oman [PDO]); Samuel Jarratt (STATS Group (UK) Ltd) |
| 2:25 p.m. | C2022-17480 | Opportunistic Compilation Of ECDA, ILI, And Hydrostatic Testing For Successful Pipeline Uprating: Case Study | Paul Young (TC Energy) |
| 2:50 p.m. | C2022-17983 | Recent Advances In Depth Assessment Of Stress Corrosion Cracking Using Tangential Eddy Current Array On Carbon Steel Pipelines | Michael Sirois and Mathieu Bouchard (Eddyfi) |
| 3:15 p.m. | C2022-17661 | Statistical Analysis Of U.S. Reportable Onshore Hazardous Liquid And Natural Gas Pipeline Accidents/Incidents From January 2010 To January 2021 Caused By External Corrosion | Alvaro Rodriguez (PHMSA) |
| BREAK | | | |
| 4:00 p.m. | C2022-18525 | Statistical Analysis Of U.S. Reportable Onshore Hazardous Liquid And Natural Gas Pipeline Accidents/Incidents From January 2010 To January 2021 Caused By External Corrosion Page 2 | Alvaro Rodriguez (Home) |

Tuesday, March 8

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| | | | |
|-----------|-------------|--|---|
| 4:25 p.m. | C2022-17678 | Study On Elemental Sulfur Formation From Black Powder Deposits | Yousef Khuraibut (Kuwait Oil Company) |
| 4:50 p.m. | C2022-18175 | Surface And Defect Preparation Using Atmospheric Plasma For Non-Metallic Pipe Repair | Jeffrey Piascik, Glenn Astolfi, Jeff Pavelka, and Pete Yancey (Atmospheric Plasma Solutions, Inc); Ahmed Hassanin and Chris Alexander (ADV Integrity, Inc), |

Recent Experiences with Nickel, Titanium, Zirconium and Other Corrosion Resistant Alloys

Chair: Ralph Baessler | Vice Chair: Ajit Mishra | 2:00 p.m. - 5:30 p.m. | Room 217 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 2:10 p.m. | C2022-17589 | Recent Advances On The Influence Of Microstructural Characteristics On Corrosion Resistance In H ₂ SO ₄ Of Anodized Titanium | Marco Ormellese, Luca Casanova, Mariapia Pedefferi (Politecnico di Milano); Gianluigi Botton (Canadian Center for Electron Microscopy) |
| 2:35 p.m. | C2022-17528 | Nickel Based Alloy Casting Failure In Potash Production Mill | Newton Peterson and Alireza Kohandehghan (Stantec Consulting Inc), Brian Wilson (Acuren Group Inc.) |
| 3:00 p.m. | C2022-17619 | Corrosion Performance Of Various Types Of Welded And Seamless Tubulars Of Ni-Mo And Ni-Cr-Mo Alloys In Standard Acids And Other Selected Environments | Ling Chen and Vinay Deodeshmukh (Haynes International) |
| 3:25 p.m. | C2022-17966 | Long- And Short Term Laboratory Testing Of UNS N06985 For OCTG In Extreme Sour Environments | Charlotte Ulfvin and Per Olsson-Artberger (Sandvik Materials Technology), Wenle He (Sandvik AB) |
| BREAK | | | |
| 4:10 p.m. | C2022-17650 | New Experiences With Explosion Clad Alloys UNS N06058 And UNS N06059 | Philipp Hübner, Daniela Niespodziany, Helena Alves (VDM Metals International GmbH), Jochen König (König & CO GmbH), Olivier Sarrat (NobelClad GmbH), Rainer Behrens (Krupp VDM GmbH) |
| 4:35 p.m. | C2022-17782 | Stress Corrosion Cracking (SCC) and Electrochemical Corrosion Study of Cold Formed Alloy 625 (UNS N06625) In Extremely Low pH and High Chloride Conditions | Suresh Divi (Stress Engineering Services), Sri Krishna Chimbli |
| 5:00 p.m. | C2022-17921 | Stress Relaxation Cracking Of Thin Alloy 800/800H Electric Heater Tubular Heating Elements | Iyad Alburaiqi, Mohammed Abu Alsaud, and Sadiq Al-Ismael (Saudi Aramco) |
| 5:25 p.m. | C2022-17883 | Development Of Zinc Coatings In Halide Free Ionic Liquids For Corrosion Mitigation | Kranthi Maniam (The University of Leicester), Shiladitya Paul (TWI) |

Tuesday, March 8

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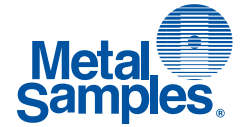
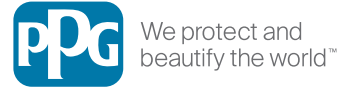
Refining Industry Corrosion

Chair: Abbey Wing | Vice Chair: Huizhou Yin | 8:00 p.m. - 4:30 p.m. | Room 303 ABC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17751 | Corrosion Under Insulation And Atmospheric Corrosion In The Refinery Industry. An Accurate Approach To Estimate Corrosion Growth Rates, A Texas Refinery Case Study | Bernardo Cuervo and Mark McQueen (G2-Integrated Solutions) |
| 8:35 a.m. | C2022-17533 | Naphthenic Acid Corrosion And Sulfidic Corrosion In Crude Oil Fractions | Yuhchae Yoon, Hui Li, and Kwei Meng Yap (Honeywell Process Solutions) |
| 9:00 a.m. | C2022-18039 | Evaluation Of Reactive Sulfur For Improved Corrosion Predictions In Oil Refineries | Ishan Patel and Gheorghe Bota (Ohio University);David Young (ICMT), Winston Robbins (ExxonMobil ResearchEngineering) |
| 9:25 a.m. | C2022-17901 | An Enhanced Prediction Model For Simultaneous Naphthenic Acid And Sulfidic Corrosion Quantification | Sridhar Srinivasan and Abbey Wing (Becht Engineering), Gerrit Buchheim (Gerrit Buchheim), Winston Robbins (ExxonMobil ResearchEngineering) |
| BREAK | | | |
| 10:35 a.m. | C2022-18038 | Resistance of U-bend and Integral Finned Duplex Stainless Steel UNS-S32205 and UNS-S32750 to Sulfide Stress Corrosion Cracking | Karen Picker (Sandvik Materials Technology), Kim Yong (Webco), Luiza Esteves |
| 11:00 a.m. | C2022-18162 | Chemical Mitigation Of Alkaline Carbonate Stress Corrosion Cracking | Philip Thornthwaite (NALCO Champion, an Ecolab Company), John Scholz (ECOLAB Research Ctr), Maria Marquez and Oussama Zenasni (NALCO Water, an ECOLAB Company) |
| 11:25 a.m. | C2022-17993 | Chemical Treatment To Mitigate Polythionic Acid SCC Without A Soda-Ash Wash: Laboratory And Plant Experience | Nathaniel Sutton (The Equity Engineering Group), Brandon Rollins and James Esteban, Kenneth Evans (DNV GL) |
| LUNCH | | | |
| 2:00 p.m. | C2022-17989 | Converting Hydroprocessing Equipment To Produce Renewable Diesel From Soybean And Corn Oil: Corrosion And Materials Considerations | Nathaniel Sutton, Kenneth Kirkham, and Phillip Prueter (The Equity Engineering Group, Inc.) |
| 2:25 p.m. | C2022-18007 | Thinning Of Inlet Piping To Reactor Effluent Air Condenser [REAC] Of Gas Oil Hydrotreating Unit - Case Study | Sudharsanan Soundararajan (ADNOC Refining) |
| 2:50 p.m. | C2022-17520 | Modelling Electrolytic Hydrofluoric Acid In The Fractionation Phase Change Corrosion Zone Of HF Alkylation Units | Andy Gysbers (Becht Engineering), Ezequiel Vicent (OLI Systems, Inc.), Michael Cayard (Flint Hills Resources), Peiming Wang (OLI Systems Inc.), Tim Korstanje (Suncor). |
| 3:15 p.m. | C2022-17780 | A Case Study-Caustic Gouging Of Boiler Tubes | Suresh Divi (Stress Engineering Services), Sri Krishna Chimbl |
| BREAK | | | |
| 4:25 p.m. | C2022-17523 | Wireless UT Sensors For Structural Health Monitoring & Remote Operations In A Post COVID19 World | Steve Strachan (Sensor Networks, Inc.) |

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Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

● Speakers' Breakfast

7 to 8:30 a.m. | HemisFair Ballroom C3

Presenters for RIP, RTS, and Technical Symposia are invited to join their colleagues for breakfast on the day in which they are scheduled to present.

● Guest Breakfast

7:30 to 9:30 a.m. | Grand Hyatt San Antonio, Bowie AB

Guest Breakfast is for individuals that purchase the Guest Program Registration only and are not for attendees to the conference

▲ SC 08 - Metallic Material Selection & Testing-Day 1

7 a.m. to 3 p.m. | Room 221 C & 221 B

▲ Microbiologically Influenced Corrosion - Day 2

8 to 9:30 a.m. | Room 217 A

Chair: Jason Lee | Vice Chair: Torben Lund Skovhus

This symposium features technical papers on how corrosion in the natural world is concomitant with biological processes due to the ubiquity of microorganisms. Advances in metagenomics has provided unprecedented exploration of microbial fauna where previous investigations were constrained by challenges of culturing or enigmatic relationships between microbe function to the overall corrosion influencing community processes. Papers presented during this symposium will explore and explain hard-won learnings in this realm of study.

▲ ISO TC 156 US TAG

8 to 10 a.m. | Room 301 A

▲ Inhibitors - Vapor Transported (VCI) and Surface Coated Rust Preventatives (RP)

8 a.m. to 11:30 a.m. | Room 217 B

Chair: Sujay Math Vice Chair: Charles Phillips

This symposium features technical papers on volatile corrosion inhibitor (VCI) materials that are widely used to provide temporary corrosion protection for the surfaces of ferrous and non-ferrous metal parts. "Temporary" refers to conditioning the environment enclosing the metal parts for a period, usually months to years, before the parts are put into their ultimate use, or before a "permanent" coating such as paint is applied. VCI materials compete with alternative temporary corrosion protection methods that include oils, greases, and waxes, sometimes called rust preventatives. This symposium will disseminate information about new chemicals, products, and applications of vapor-transported, liquid, and surface-applied corrosion inhibitors.

▲ Bridge and Infrastructure Coatings & Corrosion - Day 1

8 a.m. to noon | Room 210

Chair: Christopher Alexander | Vice Chair: I-Wen Huang

This symposium features technical papers on methodologies to improve the service life of materials and structures in infrastructure, transportation, and utilities industries. Work that covers new developments and solutions for pre-stressed and post-tension reinforced concrete structures as well as updates to existing systems may be included.

▲ Coatings 101 Workshop

8 a.m. to noon | Room 208

Presented by Charles Brown, Chris Farschon, and Michael Baase, Greenman-Pedersen, Inc.

The workshop will provide an overview of an industrial protective coatings project, including design considerations, material selection, surface preparation guides, ambient conditions, and basic quality control techniques. What participants will obtain out of this course is a basic understanding of how protective coatings are specified and applied to meet the goals of a project. We will discuss corrosion, good design, good paint, good specifications, good contractors, good inspection, and good maintenance.

We will review and present typical inspection instruments used on a paint project, surface preparation guides, how to read a product data sheet, and how to measure ambient conditions.

▲ SC 07 - Defense & Aerospace

8 a.m. to noon | Room 225 D

Wednesday, March 9

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▲ Anodic and Cathodic Protection - Day 1

8 a.m. to 3 p.m. | Room 303 ABC

Chair: Daniel Fingas | Vice Chair: Spencer Easthope

This symposium includes technical papers regarding anodic and cathodic protection papers on ferrous materials in pipeline, oil, gas, and water systems.

▲ Corrosion Management - Day 1

8 a.m. to 3 p.m. | Room 217 C

Chair: Hendrik Debruyne | Vice Chair: Brian Burgess

This symposium is seeking technical papers on recent corrosion management implementations, lessons learned for these, and the development of new corrosion management philosophies.

▲ Recent Experiences with Austenitic and Duplex Stainless Steels - Day 1

8 a.m. to 3 p.m. | Room 221 A

Chair: Lena Wegrelius | Vice Chair: Nicole Kinsman

This symposium features technical papers on recent experiences with stainless steels. The focus is on end user experiences from the process industries such as chemical processing, pulp and paper, oil and gas, desalination, pharmaceutical, and power generation. Topics include success, failures, material selection, fabrication, new developments, and sustainability.

▲ SC 03 - External Coatings - Buried & Immersed

8 a.m. to 3 p.m. | Room 212

▲ Refining Community Information Exchange

8 a.m. to 3 p.m. | Room 304 ABC

▲ RTS - New Approaches to Lifetime Prediction

8 a.m. to 3 p.m. | Room 214 D

Chair: Narasi Sridhar | Vice Chair: Chris Taylor

This RTS symposium will showcase invited papers on various deterministic and probabilistic approaches to life prediction of corrodible systems. The papers will cover modeling approaches from macro to nano-scale in a range of industrial applications, including nuclear power, radioactive waste disposal, oil and gas production, storage, and transportation, infrastructure, defense, and fossil and renewable power generation.

▲ Sweet and Sour Corrosion in Oil and Gas

8 a.m. to 3 p.m. | Room 302 BC

Chair: Sandra Hernandez | Vice Chair: Krista Heidersbach

This symposium features technical papers on corrosion-related topics that stem from the presence of carbon dioxide (CO₂) and

hydrogen sulfide (H₂S) in oil and gas production operations. The forum will look at advancements in the areas of understanding of the corrosion mechanisms, development of prediction models, monitoring, and inspection technologies.

▲ Environmental Assisted Cracking - Day 1

8 a.m. to 3:30 p.m. | Room 217 D

Chair: Steven Shademan | Vice Chair: Fei Tang

This symposium features technical papers related to understanding of all EAC mechanisms in various industries and applications, including but not limited to hydrogen embrittlement, stress corrosion cracking, corrosion fatigue, HTHA, and so on. The papers can cover metals, polymers, ceramics, composites, effects of materials processing methods and environmental parameters, root cause failure analysis in service, lab testing methods, materials modeling, industry standards development, state-of-art EAC research reviews, and so on.

● Joint QP Subcommittees

8:30 to 10 a.m. | Room 225 B

● DC Interference: Risks, Myths, and Mitigation

9 to 11 a.m. | Room 214 A

Presented by Jordan Groody and Andy Florence, Bass Engineering

It's crowded out there and it's only getting more crowded. Direct current (DC) stray current from foreign cathodic protection (CP) systems makes maintaining your own CP systems a constant challenge. DC interference can be detected and mitigated—but where do you even start in a complex piping network, and how do you know when to stop? Learn the difference between stray current and influence in this fast-paced session, and discover modern analysis, testing, and mitigation techniques to move your CP program forward. This session will be divided into three separate subject areas:

1. DC Risk Analysis—Discuss the common pipeline and environmental attributes that can contribute to increased risk of DC interference. Learn how risk algorithms can be employed to pinpoint high risk areas and maximize the effectiveness of your DC interference mitigation efforts.
2. Detection & Confirmation—Dive into static DC interference associated with foreign CP systems and diagnostic field tests that can be utilized in assessing suspected cases of interference. The presentation will focus on detection and confirmation of DC interference and best practices associated with field measurement procedures. Attendees will be challenged to examine their current CP testing procedures to determine if adequate field data is being collected to correctly diagnose DC interference. Common mistakes in field testing and diagnosis will be explored, along with sequential interruption methodologies,

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coupons, and other techniques that can be used to confirm the presence of stray current.

- Mitigation & Monitoring—A look at modern DC interference mitigation methods and monitoring practices. Discuss pros and cons of mitigation techniques used in the past and learn about options for effective monitoring to ensure long-term pipeline protection and compliance.

These subjects will be followed by a Q&A session in which operators can share knowledge about working solutions and best practices.

▲ SC 20 - Internal Corrosion Management

9 a.m. to noon | Room 216

▲ Soft Skills Workshop

9 a.m. to noon | Room 214 B

Presented by IUPAT

Soft Skills are the Key! You deal with People every day starting with YOURSELF! There are all kinds of people both inside and outside your organization. When you are dealing with people who are your customers you need to build a good and lasting relationship keeping in mind that you are in the business of serving them. This Seminar will help you understand what soft skills are, learn more about you, and conclude with your next steps to help you achieve success in your work and career. And the bonus is what this all means to your personal happiness!

Topics we will cover include:

- Soft Skills / Hard Skills – Why we need to practice both every day * It starts with understanding yourself – your personality is what people see
- Emotional Intelligence – what it means and why is it so valuable
- Communication – the Ultimate Core Competency everyone needs to improve
- Differences – understanding them and embracing them as an opportunity
- Influence and Authority – why is this so important
- Managing, Leading, following – what you need to know to succeed *
- Mentorship – a critical responsibility we all must make part of our day-to-day

Sponsored by



● Thermal and Cold Spray Coatings Forum - Processes, Applications and Challenges

9 a.m. to noon | Room 211

Presented by Shiladitya Paul, TWI; Jim Weber, James K. Weber Consulting, LLC; and Frank Prenger, Grillo-Werke Aktiengesellschaft

This session will cover discussions on thermal and cold spray coatings for mitigation of corrosion and wear with a specific focus on (but not limited to) surface preparation, coating consumable selection, spray method selection, spray parameter development, in-line quality and inspection, testing and qualification, operational experience, cost reduction, maintenance, and repair. The subjects to be covered include the latest research and field experience on thermal spray coatings, materials, processes, and strategies for corrosion control, etc. The group will also discuss conventional and novel thermal and cold spray coating systems used to prevent corrosion and wear in offshore, onshore, oil and gas, subsea, marine, construction, chemical industry, refinery, construction, automotive, power, aerospace, etc.

▲ Corrosion in Supercritical Systems

9:30 a.m. to 3 p.m. | Room 221 D

Chair: Xi Wang | Vice Chair: Bjorn Morland

This symposium features technical papers that address the measurement or assessment of corrosion in any supercritical system, including supercritical water and supercritical carbon dioxide.

▲ Direct Assessment

10 a.m. to noon | Room 302 A

Chair: Jorge Vasquez | Vice Chair: Zineb Belarbi

This symposium features technical papers covering new technologies, methods, as well as case studies and histories in the area of external corrosion, internal corrosion, and stress corrosion cracking by way of direct assessments.

▲ ISO TC 35 US TAG

10 a.m. to noon | Room 301 A

● EMERG Student Camp

10 a.m. to 3:30 p.m. | HemisFair Ballroom C2

A day-long mini-camp for local high school students will be held in conjunction with AMPP 2022. Local students from San Antonio area high schools will participate in hands-on, coatings and corrosion-related activities using cKits™ (Corrosion Toolkits). They will learn basic scientific principles of corrosion in topics such as oxidation, thermodynamics, and electrochemistry. Students will also have the opportunity to

Wednesday, March 9

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learn about research and career opportunities from industry professionals and university students while touring the AMPP 2022 show floor.

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● Chapter Officer Meeting

10 to 11 a.m. | Room 224

● Pipeline Mechanical Protection Selection for Horizontal Directional Drilling Applications

10 to 11 a.m. | AMPPiTheater 2
Presented by Mario Moreno, SFL

Directional drill boring is a technique used to reduce the impact on the environment and as an alternative to open trench solution for pipeline installation. There is a regulatory gap in the selection of abrasion-resistant coatings for directional drill applications. This discussion will analyze the options, advantages, and disadvantages of the current practices and elaborate on potential avenues to create a clear guideline in the selection of mechanical protection for pipelines in horizontal directional drilling applications.

● Intelligent Blasting - Where the Internet Meets the Blast Nozzle

10:30 to 11 a.m. | AMPPiTheater 1
Presented by Jim Gooden, BlastOne

Never before have you been able to sit in the office and see how much media is being used by each blaster, in real time. Now you can make adjustments and dial the media consumption so that you can keep the project on track, from your phone.

● QP3 Subcommittee

10:30 a.m. to noon | Room 225 B

● AMPP Eagle Ford Chapter Meeting

11 a.m. to 1 p.m. | Grand Hyatt San Antonio, Bowie AB

● New Nozzle Developments to Massively Reduce the Noise from Blasting

11 to 11:30 a.m. | AMPPiTheater 1
Presented by Jim Gooden, BlastOne

Taking the nozzle back to the drawing board for the first time in decades found the huge drawbacks in nozzle design, which creates massive shocks and turbulence in the air flow as it travels through the nozzle. New imaging and photographic equipment allowed researchers to study the air flow and abrasive movement in real time at a level never undertaken before. This has allowed an entirely new technology to reduce blasting noise, with some additional unexpected, but very positive effects.

● Characteristics and Proper Use of Recyclable Abrasives

11:30 a.m. to noon | AMPPiTheater 2
Presented by Kumar Balan, Ervin Industries

Recyclable abrasives such as steel shot and grit have been effectively used for cleaning and preparing steel surfaces. This discussion will focus on desirable characteristics of such abrasives and their proper use.

● CoatingsPro's 2022 Contractor Awards Program Celebration

noon to 12:30 p.m. | AMPPiTheater 1



CoatingsPro's Contractor Awards Program is designed to showcase and recognize the projects and crews that demonstrate excellence in the field of high-performance commercial and industrial coatings. Award winners in seven categories—Commercial Concrete, Commercial Roof, Industrial Concrete, Industrial Steel, Specialty Project, Work It Safe, and Contractor/Crew MVP—will be announced.



Access the Official AMPP Conference App!



Scan QR Code

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Student Poster Session Award Ceremony

12:30 to 1:30 p.m. | Student Poster Session | Exhibit Hall
Chair: Raghu Srinivasan | Vice Chair: Saba Navabzadeh Esmaeely

The best student posters will be recognized in the Student Poster Awards Ceremony for first-place, second-place, and third-place posters in three poster categories along with the best undergraduate poster. Winning students will receive monetary prizes, sponsored by BP, and the first-place winners of each category will be invited to publish an open access Poster Award Research Letter in CORROSION journal, the sponsoring publication.

Sponsored by



● Robotics for Confined Spaces

1 to 2 p.m. | AMPPiTheater 1
Presented by Norm Spence, Confined Space Robotics

Learn how robotic technology improves safety, quality and speed of a project while at the same time reducing project costs and asset down time.

● AMPP Credentialing and Certification

Session 1: 1 to 2 p.m. | AMPPiTheater 2
Presented by Cara Blyzwick, AMPP

Session 2: 2:30 to 3:30 p.m. | AMPPiTheater 2
Presented by Federico Romano, AMPP

Get your questions on credentialing and certification answered and find out the latest developments for AMPP credentials. The forum will discuss AMPP credentialing, the certification development process, and how you can get involved. Topics covered include the differences between education and certification/credentialing, credentialing standards, AMPP's multi-tiered credentialing strategy, and more. The session will include a Q&A portion.

● Coating Application and Corrosion Mitigation on United States Coast Guard Cutters Forum

1 to 2 p.m. | Room 211
Presented by Ross Markham, USCGC TAHOMA (WMEC-908); and Nick Paiker, USCG—SFLC—LREPL

Ever wonder how the United States Coast Guard (USCG) approaches corrosion prevention in its newly built and 50+ year old multi-mission marine assets? This session will expand on the current preservation practices and corrosion mitigation

strategies used to extend the operational lifecycle of numerous new and aging USCG vessels. The various approaches to shipboard temporary repairs and commercial level renewals based on asset class, crew outfit, and operational schedule as well as geographic induced obstacles, etc., will be explored. Congressional appropriations, national interests, and public affairs of the seagoing service also play a large factor in this sustainment process. Additionally, the planning and maintenance feedback loop from corrosion assessments/inspections will also be discussed. USCG-specific technical documentation/references and their parallel with commercial subject matter expertise and industrial societies will likewise be integrated throughout the presentation.

● What Should a Facility Owner Look for in a Quality Coating Contractor?

1 to 2:30 p.m. | Room 208
Presented by Michael Damiano and Dave Evans, AMPP

When selecting a coatings contractor, it's important for asset and facility owners to focus on the right criteria. The importance of quality work and correct specifications are hard to overstate given their impact on the life of the structure, facility, pipeline, etc. Use of proper surface preparation, application, and inspection techniques lead to work of the highest quality and extends the asset life while reducing project costs during the process by avoiding rework and other job nonconformances. Join us for this informative discussion and learn more about what to look for in the selection process.

● Bridge Coatings – A Panel Discussion and Audience Interaction on Various Topics Dealing with Bridge Painting that May Include Design, Inspection and Maintenance of Bridges

1 to 3 p.m. | Room 210
Presented by Tony Serdenes, Consultant; Johnnie Miller, Texas DOT; Garry D. Manous, Atsalis Brothers Painting; and Ed Mann, AMPP

This panel discussion and audience interaction will cover various issues that our industry deals with throughout the country when cleaning and painting bridges from inception to completion. Through the Q & A process with the audience, the panel will address design concerns, quality assurance and quality control inspection and maintenance for bridge coating projects. This will be an interactive discussion with audience members and the panelists to address the challenges facing their agencies.

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ Coating Inspection

1 to 3 p.m. | Room 213
Chair: Lake Barrett | Vice Chair: Charles Brown

This symposium features technical papers on the proper methods of inspection for surface preparation and installation of protective coatings and lining systems on an array of industrial structures and facilities.

▲ SC 22 – Biodeterioration

1 to 3 p.m. | Room 225 D

● QP Core Subcommittees

3 to 4:30 p.m. | Room 225 B

▲ Novel Developments in <100 g/L Exempt-Solvent Free Polyaspartic Corrosion Topcoat to Address Future Regulations

3:30 to 4 p.m. | AMPPiTheater 2

With continued environmental concerns of VOCs and the growing health concerns of certain exempt solvents, development of higher solids coatings are important for safely reducing the environmental impact of Architectural and Industrial Maintenance (AIM) coatings. This presentation covers the development of a new high solids polyaspartic topcoat for corrosion protection systems <100 g/L VOC (>89% volume solids) without exempt solvents in anticipation of tighter future VOC and exempt solvent regulations. The new coating provides similar corrosion and weathering performance to current polyaspartic systems while retaining the applicator's desire for a sprayable pot life and enhanced productivity at high solids. Results for pot life, dry time, salt fog exposure, and QUV weathering will be shared to show comparable performance of the new coating to current polyaspartic corrosion coatings.

Sponsored by



● cKit™ Training for Chapters

3:30 to 5 p.m. | HemisFair Ballroom C2

Chapter leaders and members are invited to a drop-in event to be introduced to the cKit™ (Corrosion Toolkit) and the experiments included in it. There will be experiments on display, along with two master instructors to help guide you through the kits, how they can be used locally in your community, and how to help conduct the experiments.

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

● High Rollin' for a Harley Giveaway

Winner Announced at 4 p.m. | Exhibit Hall

We are giving away a Harley Davidson, and this is YOUR chance to win! Visit each High Rollin' for a Harley sponsor to collect a playing card and complete the submission card to enter to win. Winner will be announced at 4 p.m.

Sponsored by



● Honoree Night

6 to 10 p.m. | Grand Hyatt San Antonio, Texas Ballroom ABC

AMPP invites you to an evening of celebration as the association's awards are presented in recognition of members who have made outstanding contributions to AMPP and the corrosion control industry. Enjoy a relaxing evening of networking, heavy hors d'oeuvres, and entertainment.

Tickets are for sale at Registration while supplies last.

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Anodic and Cathodic Protection (Day 1)

Chair: Daniel Fingas | Vice Chair: Spencer Easthope | 8:00 a.m. - 3:00 p.m. | Room 303 ABC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-18042 | Potential Measurements, How To Effectively Monitor The 'Health' Of Your Cathodic Protection System | Eric Langelund (Piping and Corrosion Specialties, Inc.) |
| 8:35 a.m. | C2022-17631 | Corrosion And Corrosion Protection Of Water Wells | Mohammed Ali and J. Darby Howard (JDH Corrosion Consultants, Inc.); Elmer Cheung (SFPUC), |
| 9:00 a.m. | C2022-17724 | Research On Cluster Well Group Casing Cathodic Protection For Field Test And Optimization Of Anode Bed | Dawei Zhuang and Du Yanxia (University of Science and Technology Beijing); Qian Zhao (Corrosion and Protection Center, Institute of Advanced Materials and Technology, University of Science and Technology Beijing); Qiongwei Li (Oil & Gas Technology Research Institute of Changqing Oilfield Company), Xiaoyong Wang (PetroChina Changqing Oilfield Branch) |
| 9:25 a.m. | C2022-17647 | Storage Well Cathodic Protection Comparative Assessment | Daniel Fingas and Jean-Patrick Boudreault (Corrosion Service Company Limited); Bradley Jefferies (Enbridge Gas Distribution AP), |
| BREAK | | | |
| 10:10 a.m. | C2022-27688 | Well Casing Cathodic Performance Review - Case Studies | Maryam Al Hashmi, Fatih Boluk, Hamed Al Habsi, Monica Fernandez, and Naveed Munir (Petroleum Development Oman [PDO]) |
| 10:35 a.m. | C2022-17599 | A Right Way To Calculate Pipe CP Potential Attenuation | Fuchen (John) Yang (Huafu Longchen Co.) |
| 11:00 a.m. | C2022-17713 | FEM Simulation Analysis Of The Pipe-Casing Under Cathodic Protection | Marco Ormellese, Andrea Brenna, Luca Paterlini, and Mehdi Attarchi (Politecnico di Milano) |
| 11:25 a.m. | C2022-17833 | Applying Machine Learning Techniques To Identify And Predict Behavior Of Rectifier And Groundbed State Change | Matthew Barrett, Antonio Da Costa, and William Maize (Mobiltex Technologies Inc.) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17677 | The Virtual Corrosion Engineer For Soil Side Corrosion Prediction And Cathodic Protection Status Monitoring | Vishnu Sivadasan and Wilhelmus Bos (Shell); Emad Daher and Nicholas Laycock (Qatar Shell Service Company), |
| 1:25 p.m. | C2022-17557 | Improving Integrity Management Decision Making Using Automated Calibration Of Model Predictions Using CP Survey Data | Robert Adey (BEASY), Cristina Peratta, and John Baynham (BEASY); Edward Apeh and Madhu Sapkota (Bournemouth University) |
| 1:50 p.m. | C2022-17649 | A Study Of The Depolarization Phenomena In Soils And Remanence Of Corrosion Protection After CP Interruption | Clemence Rogier and David Sellam (GRTgaz); Ahmed Fakhry, Elisabeth Fleury, and Tiphaine Lutzler (GRTgaz RICE); François Castillon (TEREGA), Laurent Henry (GRDF), Yves Zannier (Storengy) |
| BREAK | | | |
| 2:35 p.m. | C2022-17697 | Utilization Of Zinc Anode For Controlling Cathodic Protection (CP) Over-Protection For CS Structures | Anwaar Al Kindi, Fatih Boluk, and Osvaldo Mejia (Petroleum Development Oman [PDO]) |

Wednesday, March 9

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Bridge and Infrastructure Coatings & Corrosion (Day 1)

Chair: Christopher Alexander | Vice Chair: I-Wen Huang | 8:00 a.m. - 12:00 p.m. | Room 210

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17964 | Asbestos Coatings And Components On Concrete Bridges, Compliance, And Abatement | Gary Caldwell (1 Priority Environmental Services, LLC), Chris Lovelace |
| 8:35 a.m. | C2022-18061 | Bridge Coating Maintenance Strategies | Frederick Shoyer and J. Peter Ault (Elzly Technology Corporation) |
| 9:00 a.m. | C2022-17664 | Burlington Skyway Electrochemical Chloride Extraction – 30 Years Later | David Whitmore and J. Christopher Ball (Vector Corrosion Services, Inc.) |
| 9:25 a.m. | C2022-17877 | CFRP Reinforcement Anode For Cathodic Protection Of Steel Rebar | Xavier Hallopeau (Consultant), Camille Annede-Villeau and Lesieutre Olivier (Freyssinet International & Cie) |
| BREAK | | | |
| 10:10 a.m. | C2022-18203 | Evaluation Of Corrosion Prevention And Control Programs For Reinforced Concrete Bridges In Marine Environments | Kingsley Lau and Samanbar Perme (Florida International University); Casey Jones, Matthew Duncan (Florida Department of Transportation); Matthew Fadden (Wiss, Janney, Elstner Associates, Inc.) |
| 10:35 a.m. | C2022-17953 | Prediction Of Atmospheric Corrosion On Steel Bridge Components In A Changing Climate | Istemi Ozkan, Hamidreza Shirkhani, and Jieying Zhang (National Research Council Canada), Dario Markovic (University of Ottawa), Nafiseh Ebrahimi (NRC) |
| 11:00 a.m. | C2022-17986 | Development Of Deficient Grout And Corrosion In Post-Tensioned Tendons Due To Water And Solute Transport | Rutambara Sonawane, Kingsley Lau, and Samanbar Perme (Florida International University) |
| 11:25 a.m. | C2022-17834 | The NEPCOAT Story- Bridge Paint Selection In The North East | Jerry Zoller (NH DOT), Martin Gagne (Zelixer Inc) |



AMPP covers everything theoretically and practically for one to be a materials guy. I started as a Coatings Inspector and always referenced standards and understandable publications working in Saudi Arabia to resolve queries.

- Muhammad Hameed, ENPRO



Wednesday, March 9

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Coating Inspection

Chair: Lake Barrett | Vice Chair: Charles Brown | 1:00 p.m. - 3:00 p.m. | Room 213

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 1:10 p.m. | C2022-17606 | Correlating Qualitative Surface Profile Assessment Methods To Quantitative Methodology On Prepared Concrete | William Corbett (KTA-Tator, Inc.), Michael Beamish (DeFelsko Corporation) |
| 1:35 p.m. | C2022-17760 | Key Points Specifically For Transmission Pipeline Coating | Ron Raphoon (Ron Raphoon) |
| 2:00 p.m. | C2022-18101 | The Need For Independent 3rd Party Coatings Inspectors On All Industrial Coatings Projects | Tim Bauman (Sherwin Williams) |
| BREAK | | | |
| 2:35 p.m. | C2022-17662 | Why Voltage Matters For High Voltage Holiday Testing On Steel | Vaughn O'Dea, Cameron Walker, Joshua Bell, and Javier Tormes (Tnemec Company, Inc) |
| 3:00 p.m. | C2022-17656 | Digitalization: Why It Matters [To AMPP Members] And How To Realize The Benefits | Ross Boyd (Ross) |

Corrosion in Supercritical Systems

Chair: Xi Wang | Vice Chair: Bjorn Morland | 9:30 a.m. - 12:00 p.m. | Room 221 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 9:40 a.m. | C2022-17602 | Corrosion Resistance Evaluation Of Super Duplex Stainless Steel In Supercritical CO ₂ Saturated Liquid Phase Containing Impurities O ₂ Or SO ₂ | Daisuke Matsuo, Masayuki Sagara, and Yuji Arai (Nippon Steel Corporation, Kansai R & D Lab.) Hisashi Amaya (Nippon Steel Corporation, Wakayama Works) |
| 10:05 a.m. | C2022-18049 | Effect Of Cr On Corrosion Performance Of Steels In Supercritical CO ₂ Environments | Kaiyang Li, Xue Han, and Yimin Zeng (Natural Resources Canada - CanmetMATERIALS) |
| 10:30 a.m. | C2022-17886 | Effect Of H ₂ S On The Performance Of Welded 13% Cr Steel In Supercritical CO ₂ | Shiladitya Paul (TWI) |
| 10:55 a.m. | C2022-18055 | Effect Of Impurity On The High-Temperature Corrosion Performance Of Alloys In Supercritical CO ₂ | Kaiyang Li, Xue Han, and Yimin Zeng (Natural Resources Canada - CanmetMATERIALS) |
| BREAK | | | |
| 11:40 a.m. | C2022-18005 | Electrochemical And Morphological Investigation Of Corrosion Behavior Of Carbon Steel In A Supercritical CO ₂ Environment With Presence Of H ₂ S. | Yuan Ding and Chin-Hua Cheng (Texas A&M University), Raymundo Case (Texas A&M Engineering Experiment Station) |
| LUNCH | | | |
| 1:15 p.m. | C2022-17592 | Electrochemical Behavior Of Transmission Pipeline Steels In Supercritical Carbon Dioxide | Zineb Belarbi and , Ömer Doğan (National Energy Technology Laboratory); Lucas Teeter and Margaret Ziomek-Moroz (Department of Energy) |
| 1:40 p.m. | C2022-18205 | Enabling Carbon Steel With A Special scCO ₂ Corrosion Inhibitor – A Field Study | Tracey Jackson, Jamie Wood, Johnathon Brooks, and Peng Jin (Baker Hughes) |

Wednesday, March 9

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| | | | |
|-----------|-------------|--|---|
| 2:05 p.m. | C2022-17726 | Guidance for Materials Selection and Corrosion Control in CO ₂ Transport and Injection for Carbon Capture and Storage | Johannes Sonke (Shell), Stephen Paterson (Shell) |
| 2:30 p.m. | C2022-17943 | Investigating The Effect Of H ₂ S And Corrosion Inhibitor On The Corrosion Of Mild Steel Under High Pressure CO ₂ Conditions | Yoon-Seok Choi and Srdjan Nestic (Ohio University); Ahmad Zaki Abas and Azmi Mohammed Nor (Petronas Research & Scientific), Fernando Farelas (Luna Innovations), Luciano Paolinelli (Institute for Corrosion and Multiphase Technology), Muhammad Firdaus Suhor (PETRONAS Research) |

Corrosion Management (Day 1)

Chair: Hendrik Debruyn | Vice Chair: Brian Burgess | 8:00 a.m. - 3:00 p.m. | Room 217 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-18126 | Managing Integrity And Corrosion Through Real-Time Prediction Modeling Approach – “Software Sensor” Concept | Slawomir Kus, Kwei Meng Yap, and Pierre Constantineau (Honeywell Process Solutions) |
| 8:35 a.m. | C2022-17849 | Quantitative Assessment Of Failure Probability Of Underground Natural Gas Storage Wells Using An Integrated Bow-Tie Bayesian Network Approach | Francois Ayello (DNV GL), Arun Agarwal (OCO), Narasi Sridhar |
| 9:00 a.m. | C2022-18087 | Atmospheric Corrosion Detection And Management With AI | Eric Ferguson, Marco Castillo, Steven Potiris, Suchet Bargeti, and Toby Dunne (Abyss Solutions) |
| 9:25 a.m. | C2022-17991 | Advances In Digital Twin And AI To Predict And Manage External Corrosion - A Smart Tool For Decision Makers | Otavio Correa (Vidya Technology), Jorge Selene (Vidya Tec) |
| BREAK | | | |
| 10:10 a.m. | C2022-17712 | A Paradigm Shift Of Corrosion Management Using IOW Program | Ahmed Al-Yahyaai and Abullah Al Maqbali (OQ), Naif Al Abri and Yahya Al-Bulushi (Oman Oil Company) |
| 10:35 a.m. | C2022-17990 | Environmental Modification And Atmospheric Corrosion: Clear Water Rinsing, Covering, And Seawater Spray | Raymond Santucci (United States Naval Academy), Christine Sanders (US Naval Research Laboratory) |
| 11:00 a.m. | C2022-17750 | Corrosion Condition Assessment Program For Marine Asset Management | Jeff West, Casey Jones, and Stephen Foster (Wiss Janney Elstner Associates) |
| 11:25 a.m. | C2022-18106 | Chemical & Enhanced Preservation Methodologies Endeavors To Maintain The Integrity Of Joint Operation (JO) Surface Facilities | Bakheet Alyami (MS Joint Operation) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17741 | Corrosion Of Gathering Pipelines In Oil And Gas Field And Its Mitigation Measures In China | An Qing Fu, Jufeng Huang, Juntao Yuan, Lei Fan, Naixin Lv, Wensheng Li, Xuanpeng Li, Yin Chengxian, and Zihan Chen (CNPC Tubular Goods Research Institute) |
| 1:25 p.m. | C2022-17906 | Biocide Storage Tank Internal Corrosion And A Mitigation Strategy – A Case Study | Ayman Alabdullatif (Saudi Aramco), Rakan Alshebel (Saudi Aramcon Oil Company), Wakeel Ahmad (Saudi Aramco) |

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| | | | |
|-----------|-------------|--|---|
| 1:50 p.m. | C2022-17951 | Corrosion Management Learnings For Atmospheric Storage Tanks | Gulnur Badalova (BP Exploration-Caspian Sea), Mikael Johansson (BP Exploration) |
| BREAK | | | |
| 2:35 p.m. | C2022-17858 | Corrosion Risk Assessment Of Aging Plant In The Down Stream Petroleum Sector | Muazu Mohammed (Flat 3) |

Direct Assessment

Chair: Jorge Vasquez | Vice Chair: Zineb Belarbi | 10:00 a.m. - 12:00 p.m. | Room 302 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 10:10 a.m. | C2022-18052 | Classification Of Active And Passive Conditions Based On Different Relaxation Response For External Corrosion Coated Pipelines | Homero Castaneda-Lopez and Lin Chen (Texas A&M University), Hui Wang (University of Dayton) |
| 10:35 a.m. | C2022-17851 | Combination Of High Ph SCC And Near Neutral Ph SCC Models Using Bayesian Networks | Francois Ayello (DNV GL), Guanlan Liu, Narasi Sridhar |
| 11:10 a.m. | C2022-18234 | Conducting Precast Concrete Cylinder Pipe Condition Assessment By Matching Corrosion Damage Mechanisms To Diagnostic Methods | Randy Nixon (Corrosion Probe Inc) |
| 11:35 a.m. | C2022-17978 | Guidelines For The Collection Of Reliable And Practicable ECDA Indirect Inspection Data | Miqdaad Fatakdawala (Hatch) |

Environmental Assisted Cracking

Chair: Steven Shademan | Vice Chair: Fei Tang | 8:00 a.m. - 3:00 p.m. | Room 217 D (S)

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-18024 | Evaluation Of Hydrogen Embrittlement Of Nickel-Based Alloys In Cesium Formate With H ₂ S/CO ₂ | Xiaoji Li and Thodla Ramgopal (DNV GL) |
| 8:35 a.m. | C2022-17709 | Hydrogen Embrittlement Failure Of Nickel Alloy UNS N07716-140 Tubing Retrieval Safety Valve Component Installed In A Sour Production Gas Well | Iyad Alburaiki and Qasem Alhassan (Saudi Aramco); Karthik Krishnan and Wade Meaders (Halliburton) |
| 9:00 a.m. | C2022-17705 | Effect Of Soil Environment On Hydrogen Embrittlement Behavior Of X60 Steel | Zhiwen Yang, Min Feng, Xiaotong Liu, Yingfeng Chen, Yunying Xing (Safetech Research Institute [Beijing] Co., Ltd.) |
| 9:25 a.m. | C2022-17774 | Failure Analysis On A Carbon Steel Pulsation Dampener In Glycol Service Using Statistical Fractography Highlights A Stress Corrosion Cracking Contribution | Bruce Cowe, Herve Marchebois (Total Energies), Gustavo Gimenes, Laurent Ponson, and Nicolas Auvray (Tortoise) |
| BREAK | | | |
| 10:10 a.m. | C2022-17718 | A Theoretical Investigation On The Role Of Microstructural Particularities On The Hydrogen Embrittlement Of Nickel Alloys | Julia Botinha, Bodo Gehrmann, and Helena Alves (VDM Metals International GmbH) |

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| | | | |
|------------|-------------|---|--|
| 10:35 a.m. | C2022-17639 | Influence Of Cold Deformation On Hydrogen Embrittlement By Determining The Critical Hydrogen Concentration In High Strength Steel For Wire Applications | Mathias Truschner, Jacqueline Deutsch, and Johann Pengg, (Montanuniversität Leoben); Gregor Mori (University of Leoben); Hubert Koeberl, Peter Gruber (voestalpine Wire Rod Austria GmbH) |
| 11:00 a.m. | C2022-17604 | Hydrogen Charging Of Armc Iron And L80 Steel In Various Electrolytes | Matthias Eichinger, Dino Zwitter, and Mathias Truschner (Montanuniversitaet Leoben), Anton Trautmann (voestalpineForschungsservicegesellschaft Donawitz GmbH), Gregor Mori (University of Leoben), |
| 11:25 a.m. | C2022-18022 | Implication Of Fractographic Analysis Of The In-Service Leak In An Above Ground Pipeline — Potential Role Of Hydrogen | Noelle Easter Co, Ming Gao, and Ravi Krishnamurthy (Blade Energy), Satya Kompally (Canadian Natural Resources Limited), Thomas Coates |
| LUNCH | | | |
| 1:00 p.m. | C2022-17898 | SCC Of Tensile Wires At High CO ₂ Partial Pressure In Simulated Annulus Environments Of Flexible Pipes | Pedro Netto da Silva (COPPE / Federal University of Rio de Janeiro), Arne Dugstad and Gaute Svenningsen (Institute for Energy Technology), Jose Gomes (Universidade Federal do Rio de Janeiro) |
| 1:25 p.m. | C2022-17922 | Cracked High Pressure Steam Superheater Alloy 800 Piping Of A Thermal Oxidizer From A Gas Plant SRU | Yousif Al Rabie and Iyad Alburaiki (Saudi Aramco) |
| 1:50 p.m. | C2022-17909 | Dependence Of Time To Fracture Due To Hydrogen Embrittlement On Stress, Hydrogen Content, And Temperature In Rebar For Prestressed Concrete | Takuya Kamisho, Masayuki Tsuda, and Ryuta Ishii (Nippon Telegraph and Telephone Corporation) |
| 2:25 p.m. | C2022-17957 | From Pits To Cracks: A Review Of 45-Years Of Published Research On Surface Trenches In Low Alloy Steels Exposed To H ₂ S-Containing Environments | Dannisa Chalfoun (Instituto Sabato - YPF Tecnología - CONICET), Mariano Iannuzzi (Curtin University of Technology), Mariano Kappes (Comision Nacional de Energia Atomica), Teresa Perez (Teresa Perez) |
| 2:50 p.m. | C2022-17850 | Failure Analysis Of 4-Inch Welded Fittings In Treated LPG Service | Sudhakar Mahajanam (Stress Engineering Services) |



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Inhibitors - Vapor Transported (VCI) and Surface Coated Rust Preventatives (RP)

Chair: Sujay Math | Vice Chair: Charles Phillips | 8:00 a.m. - 11:30 a.m. | Room 217 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17497 | Evaluation Of Relative Humidity Dependence For Volatile Corrosion Inhibitor Desorption | Jonathan Brekan and Kristi Lanzo (Daubert Cromwell) |
| 8:35 a.m. | C2022-17985 | Investigating Specimen Preparation and Cleaning Variables Influencing the NACE TM0208-2018 Jar Test Performance | Mitchell Fillbach, Barbara A. Nygaard, Daniel Neuburger, Mahin Shahlari, and Mikel Roe (NTIC) |
| 9:00 a.m. | C2022-17860 | Quantitative Test Method For Vapor Inhibiting Ability Of Volatile Corrosion Inhibitors | Khalil Abed and Mihad Ibrahim (Cortec Middle East), Lietai Yang (Corr Instruments LLC), |
| 9:25 a.m. | C2022-18003 | Study Of Inhibition Efficiency Of Volatile Corrosion Inhibitors In the Presence Of Heptane | Maryam Eslami and Marc Singer (Ohio University) |
| BREAK | | | |
| 10:10 a.m. | C2022-17593 | Corrosion Inhibition Of Automotive Parts In Water-Ethylene Glycol Solutions | Behzad Bavarian (Cal State University Northridge), Koushik Kosanam (CSUN-MSEM), Lisa Reiner (California State Univ) |
| 10:35 a.m. | C2022-17970 | Determining Distribution Rate Of Vapor Corrosion Inhibitors Using Corrosion Potential Data | Pavan Shukla and Roderick Fuentes (Savannah River National Laboratory); Bruce Wiersma, Crystal Girardot, and Jason Page (WRPS), Shawn Campbell |
| 11:00 a.m. | C2022-17855 | Case Studies On Vapor Corrosion Inhibitor Monitoring Using Electrical Resistance Probes For Oil And Gas Assets. | Daniel Mugongo (Zerust Oil & Gas), Juan Dominguez Olivo |

Microbiologically Influenced Corrosion (Day 2)

Chair: Jason Lee | Vice Chair: Torben Lund Skovhus | 8:00 a.m. - 9:30 a.m. | Room 217 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-18191 | Split Chamber Zero Resistance Ammetry Technique (SC-ZRA) For Detecting And Quantifying Microbially Influenced Corrosion In Oil And Gas Systems | Anwar Sadek, Chelsea Monty, and Sai Prasanna Chinthala (MIC Monitor LLC); John Senko and Joshua Davis (The University of Akron) |
| 8:35 a.m. | C2022-17560 | Mitigation Of Carbon Steel MIC Using THPS Enhanced By A Biofilm Dispersing Peptide In A Flow Loop With An Oilfield Biofilm Consortium | Di Wang, Suchada Punpruk, and Tingyue Gu (Ohio University); Magdy Mohamed Gad (Saudi Aramco), Mazen Alsaleh, Sith Kumseranee (PTT Exploration & Production Public Company Limited), |
| 9:00 a.m. | C2022-17640 | Why Are Glutaraldehyde/Quaternary Ammonium Biocides So Common In The Oil And Gas Industry? | Ethan Solomon, Anup Rama, Jon Raymond, Kenneth Wunch, Makensie Moore, Nigel Watson, and Nora Eibergen (IFF Microbial Control) |

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

New Approaches to Lifetime Prediction

Chair: Narasi Sridhar | Vice Chair: Christopher Taylor | 8:00 a.m. - 3:00 p.m. | Room 214 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-18379 | Interdependent Corrosion Initiation And Propagation In Reinforced Concrete Service Life Forecasting | Alberto Sagues (University of South Florida), Christopher Alexander |
| 8:45 a.m. | C2022-18390 | Predicting The Stress Corrosion Cracking Behavior Of Stainless Steel In Atmospheric Environments | James Burns (University of Virginia) |
| 9:20 a.m. | C2022-18471 | Why Low Humidity Is Detrimental To Stainless Steel In Marine Atmospheres | Eric Schindelholz (Ohio State University, Materials Science and Engineering); Alana Parey (The Ohio State University, Sandia National Laboratories); Andrew Knight and Rebecca Schaller (Sandia National Laboratories); Jayendran Srinivasan and Jenifer Locke (The Ohio State University) |
| BREAK | | | |
| 10:05 a.m. | C2022-18336 | Challenges In Lifetime Prediction Of Organic Coatings | Victoria Gelling (Sherwin-William) |
| 10:40 a.m. | C2022-18382 | An Overview Of Modeling For Stage Ib Stress Corrosion Crack Initiation And Growth Of Pipeline Steels | Weixing Chen (University of Alberta) |
| 11:15 a.m. | C2022-18388 | Environmentally Assisted Cracking Of High Strength Nickel Based Alloys Under Cathodic Polarization | Thodla Ramgopal (DNV GL) |
| LUNCH | | | |
| 1:00 p.m. | C2022-18377 | Using Innovative ATF Materials To Extend The Life Of Light Water Reactors | Raul Rebak (General Electric Research) |
| 1:35 p.m. | C2022-18445 | Microstructure And Corrosion Predictions for High Entropy Alloys Using Physics-Informed Machine Learning Approach | Santanu Chaudhuri (University Of Illinois At Chicago), Pikee Priya |
| BREAK | | | |
| 2:20 p.m. | C2022-18375 | Modeling Localized Corrosion In Aqueous And Mixed-Solvent Environments Using Thermodynamic And Electrochemical Models | Andre Anderko and Deepti Ballal (OLI Systems Inc) |
| 2:55 p.m. | C2022-18378 | Bayesian Network Based Models For Probabilistic Life Prediction Of Complex Systems | Narasi Sridhar (MC Consult LLC), Aaron Stenta (Equity Engineering Group, Inc./The), Christopher Taylor and Francois Ayello (DNV GL) |

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Recent Experiences With Austenitic and Duplex Stainless Steels (Day 1)

Chair: Lena Wegrelius | Vice Chair: Nicole Kinsman | 8:00 a.m. - 3:00 p.m. | Room 221 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17613 | Influence Of Thermomechanical Processing On Mechanical Properties And Corrosion Resistance Of Super Duplex Stainless Steel UNS S32750. | Clara Herrera and Merlin Seifert (Deutsche Edelstahlwerke Speciality Steel GmbH Co. KG) |
| 8:35 a.m. | C2022-17627 | A Recent Case Of Intermetallic Precipitations In Super Duplex | Henrik Bang, Jakob Mølholm, and Kirsten Sørensen (Force Technology) |
| 9:00 a.m. | C2022-17689 | Failure Cases Of Super Duplex Stainless Steel Pump Components | Janardhan Saithala, Nasser Al-Behlani, Talal Al Nabhani (Petroleum Development Oman [PDO]) |
| 9:25 a.m. | C2022-17998 | Failure Analysis On A Super Duplex Stainless Steel Tube Material Before And After Slow Strain Rate Testing In Sour Conditions - Part 1: SCC Susceptibility | Wenle He (Sandvik AB), Jerry Lindkvist and Raveendra Siriki (Sandvik Materials Technology) |
| BREAK | | | |
| 10:10 a.m. | C2022-18320 | Failure Analyses On A Super Duplex Stainless Steel Tube Material Before And After Slow Strain Rate Testing In Sour Conditions – Part 2: A Case Study On Local Corrosion | Wenle He (Sandvik AB), Jerry Lindkvist and Raveendra Siriki (Sandvik Materials Technology) |
| 10:35 a.m. | C2022-17690 | After 30 Years Of Duplex Stainless Steel Experience In Oil & Gas - Do We Still Face Challenges? | Janardhan Saithala, Nasser AlBehlani, and Talal Al Nabhani (Petroleum Development Oman [PDO]) |
| 11:00 a.m. | C2022-17913 | Pitting Corrosion Resistance Of UNS S32202 Welds: Bulk Microstructure Vs Surface Behaviour | Veronica Scheiber, Florent Krajcarz, Jérôme Bridel, and Pauline Huguenin (APERAM Research), Vincent Vignal (ICB UMR 6303 CNRS) |
| 11:25 a.m. | C2022-17925 | Corrosion Properties Of UNS S83071, Super Duplex Stainless Steel With High Acid Corrosion Resistance | Oscar Öhlin and Daniel Gullberg (AB Sandvik Materials Technology) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17935 | From 6Mo To Ni-Base – Characterizing The Corrosion Performance Of Two Important Material Groups | Björn Helmersson (Outokumpu Stainless AB) |
| 1:25 p.m. | C2022-17828 | Crevice Corrosion Of High-Grade Stainless Steels In Seawaters, Comparison Between Temperate And Tropical Locations | Nicolas Larche, Charles Leballeur, and Erwan Diler (Institut de la Corrosion), Dominique Thierry (French Corrosion Institute), |
| 1:50 p.m. | C2022-18080 | Cold Work Qualification Of UNS N08935 For Use In Chloride And Sour Environment | Luiza Esteves, Karen Picker, Marcelo Senatore (Sandvik Materials Technology) |
| 2:35 p.m. | C2022-17648 | Characterization And Further Development Of Austenitic Stainless Steel UNS S20910 Towards New Industrial Applications | Clara Herrera and Merlin Seifert (Deutsche Edelstahlwerke Speciality Steel GmbH Co. KG); Helmuth Sarmiento Klapper (Baker Hughes INTEQ), Julia Dittmann (Baker Hughes) |

Wednesday, March 9

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Sweet and Sour Corrosion in Oil and Gas

Chair: Sandra Hernandez | Vice Chair: Krista Heidersbach | 8:00 a.m. - 3:00 p.m. | Room 302 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17944 | Corrosion Mechanisms Of Mild Steel In The Presence Of Formic And Acetic Acids | Sahithi Ayyagari and Bruce Brown (Institute for Corrosion and Multiphase Technology), Maryam Eslami and Srdjan Nestic (Ohio University) |
| 8:35 a.m. | C2022-17818 | Role Of Acetic Acid On The Kinetics And Mechanism Of Carbon Steel Dissolution Under CO ₂ Top Of Line Corrosion | Mariana Folena (UFRJ & Leeds), Anne Neville, Frederick Pessu, and Richard Barker (University of Leeds), Jose Gomes (Universidade Federal do Rio de Janeiro) |
| 9:00 a.m. | C2022-17717 | In-Situ Synthesis Of Corrosion Product-Polymer Composites On Carbon Steel For Enhanced Erosion-Corrosion Protection In CO ₂ Corrosion Environments | Dishad Shaikhah, Anne Neville, Richard Barker, and Wassim Taleb (University of Leeds); Bruce Cowe (Total SE); Maalek Mohamed-Saïd (TOTAL) |
| 9:25 a.m. | C2022-18025 | Corrosion In Confined Environments - The Importance Of High Supersaturation Of Dissolved Corrosion Products | Arne Dugstad (Institute for Energy Technology), Simona Palencsar (IFE) |
| BREAK | | | |
| 10:10 a.m. | C2022-17899 | The Influence Of Oxygen On Protective Iron Carbonate Scales Formed On Carbon Steel In CO ₂ Environments At Near-Neutral Ph | Pedro Netto da Silva (COPPE / Federal University of Rio de Janeiro), Arne Dugstad and Gaute Svenningsen (Institute for Energy Technology), Jose Gomes (Universidade Federal do Rio de Janeiro) |
| 10:35 a.m. | C2022-17754 | Augmentation Of Iron Carbonate Corrosion Products Using Amino Acids In CO ₂ Corrosion Environments | Dishad Shaikhah, Anne Neville, Richard Barker, Wassim Taleb (University of Leeds); Bruce Cowe (Total SE), Maalek Mohamed-Saïd (TOTAL) |
| 11:00 a.m. | C2022-17900 | Mechanistic Modeling Of The Impedance Response Of Cathodic Reduction Of Hydrogen Ion In Strong Acidic Environments | Negar Moradighadi (ICMT), Srdjan Nestic (Ohio University), Yoon-Seok Choi (Institute for Corrosion and Multiphase Technology, Ohio University) |
| 11:25 a.m. | C2022-17711 | Corrosion Risk Prediction Based On Offshore Pipeline Service Database And Machine Learning | Zhihao Qu and Lei Zhang (University of Science and Technology Beijing) |
| LUNCH | | | |
| 1:00 p.m. | C2022-17982 | Effect Of Salt Concentration On Uniform H ₂ S Corrosion Rate Of Pipeline Steel At 100 Ppm H ₂ S(G) And 200c | Fazlollah Madani Sani (Ohio University), Bruce Brown and Srdjan Nestic (Institute for Corrosion and Multiphase Technology, Ohio University) |
| 1:25 p.m. | C2022-17745 | Guidance For Thermal Stability Of Common Oilfield Chemicals | Tracey Jackson, Johnathon Brooks, Sunder Ramachandran, and Zhengwei Liu (Baker Hughes) |
| 1:50 p.m. | C2022-17681 | Revisiting The Anodic Dissolution Of Pure Iron In Strong Acid: Replication Of Bockris' Estimation Of Butler-Volmer | Mohiedin Bagheri Hariri, Bruce Brown, Srdjan Nestic (Institute for Corrosion and Multiphase Technology - Ohio University) |
| BREAK | | | |
| 2:35 p.m. | C2022-17772 | Corrosion Of Well Tubulars And Casings In Sour Gas Lift Well Annuli - Causes And Mitigations. | Bruce Cowe, Herve Marchebois, and Maalek Mohamed-Saïd (TOTAL Energies) |



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Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

● Speakers' Breakfast

7 to 8:30 a.m. | HemisFair Ballroom C3

Presenters for RIP, RTS, and Technical Symposia are invited to join their colleagues for breakfast on the day in which they are scheduled to present.

▲ Corrosion Management - Day 2

8 a.m. to 9 a.m. | Room 217 C

Chair: Hendrik Debruyne | Vice Chair: Brian Burgess

This symposium is seeking technical papers on recent corrosion management implementations, lessons learnt for these, and the development of new corrosion management philosophies.

▲ Anodic and Cathodic Protection - Day 2

8 a.m. to 10 a.m. | Room 303 ABC

Chair: Daniel Fingas | Vice Chair: Spencer Easthope

This symposium includes technical papers regarding anodic and cathodic protection papers on ferrous materials in pipeline, oil, gas, and water systems.

▲ Bridge and Infrastructure Coatings & Corrosion - Day 2

8 a.m. to 10 a.m. | Room 210

Chair: Christopher Alexander | Vice Chair: I-Wen Huang

This symposium features technical papers on methodologies to improve the service life of materials and structures in infrastructure, transportation, and utilities industries. Work that covers new developments and solutions for pre-stressed and post-tension reinforced concrete structures as well as updates to existing systems may be included.

▲ Recent Experiences with Austenitic and Duplex Stainless Steels - Day 2

8 to 10 a.m. | Room 221 A

Chair: Lena Wegrelus | Vice Chair: Nicole Kinsman

This symposium features technical papers on recent experiences with stainless steels. The focus is on end user experiences from the process industries such as chemical processing, pulp and paper, oil and gas, desalination, pharmaceutical, and power generation. Topics include success, failures, material selection, fabrication, new developments, and sustainability.

▲ SC 23 - Coating System Application, Maintenance, and Inspection

8 a.m. to 10 a.m. | Room 212

PROGRAM COLOR LEGEND

- Administrative/Other
- AMPPiTheater
- Forum
- Networking
- ▲ Symposia, RIP, RTS
- ▲ Standards Committee/ISO/Technical Meetings
- ▲ Workshops

▲ Surface Preparation

8 a.m. to 10:30 a.m. | Room 213

Chair: Loren Hatle | Vice Chair: Taylor Nguyen

This symposium features technical papers on the appropriate tools and preparation methods prior to coatings application. Topics may include solvent cleaning, hand-tool cleaning, power-tool cleaning, abrasive blast cleaning, waterjetting, recognizing and repairing surface imperfections, recognizing and removing surface contaminants, and assessing surface cleanliness. Work that covers water-soluble salts and their impacts at the substrate/coating interface that can cause premature failure may also be included.

▲ Characterization and Performance of High Temperature Materials/Coatings for Industrial Applications in Refining, Petrochemical and Power Generation Industries

8 to 11 a.m. | Room 221 D

Chair: William L. Valerioti | Vice Chair: Bingtao Li

This symposium features technical papers on the characterization and performance of high temperature materials and coatings for industrial applications in refining, petrochemical, and power generation industries. Work on material development, properties, testing and characterization, corrosion, and performance may be included.

▲ Water and Wastewater System Challenges and Solutions

8 to 11:30 a.m. | Room 302 A

Chair: Carlos Palacios | Vice Chair: Diana Miller

This symposium features technical papers on corrosion issues seen in water treatment systems for industrial, commercial, and institutional facilities.

▲ SC 08 - Metallic Material Selection & Testing-Day 2

8 a.m. to noon | Room 221 C

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

▲ SC 17 - Rail & Land Transportation

8 a.m. to noon | Room 211

● Research Program Committee

8 a.m. to noon | Room 225 D

▲ SC 14 - Oil and Gas – Upstream

8 a.m. to noon | Room 301 A

▲ Materials and Integrity in Oil Sands

8 a.m. to noon | Room 301 BC

Chair: Duane Serate | Vice Chair: Matt Krantz

This symposium features technical papers on the oil sands industry from owner-operators, vendors, consultants, and researchers. Area of interest include (but are not limited to) corrosion, failures, wear, process, material selection, asset integrity, and steam-assisted gravity drainage, down-hole, mining, and other surface equipment/facilities.

▲ SC 21 - Mining & Mineral Processing

8 a.m. to noon | Room 216

▲ Corrosion in Nuclear Systems

8 a.m. to 12:30 p.m. | Room 214 B

Chair: Sheewa Feng | Vice Chair: Sandeep Chawla

This symposium features technical papers on materials-related issues encountered in the generation of nuclear power energy in light, heavy, and advanced nuclear power reactors and plants. This includes degradation mechanisms for materials and components in service. Materials manufacturing and materials development techniques for current and advanced materials for nuclear power generation, including areas like additive or other advanced manufacturing techniques, may be included. Papers may also focus on materials issues related to long-term plant operations and nuclear waste.

▲ Progress in Laboratory Testing of Corrosion Inhibitors for Oil Field Applications

8 a.m. to 12:30 p.m. | Room 217 B

Chair: Bruce Brown | Vice Chair: Juan Dominguez Olivo

This symposium features technical papers on the following issues: Novel techniques and methodologies for evaluation of corrosion inhibitors in the lab, lessons learned—practical aspects and challenges encountered when using established evaluation methods and techniques, factors affecting quality of laboratory data, challenges associated with quantitative evaluation of localized corrosion, development of formulations for high-temperature corrosion, and challenges and gaps in labfield transference.

▲ Thermal & Cold Spray Coatings

8 a.m. to 2 p.m. | Room 214 A

Chair: Shiladitya Paul | Vice Chair: Martin Gagne

This symposium features technical papers on all aspects of thermal and cold spray coatings used to mitigate corrosion of metallic and reinforced concrete structures with a specific focus on (but not limited to) surface preparation, coating consumable selection, spray method selection, spray parameter development, in-line quality and inspection, testing and qualification, operational experience, cost reduction, maintenance, and repair. The subjects to be covered include results of basic and applied research on thermal spray processes and coating materials, including field experience on thermal spray coatings, materials, and processes and strategies for corrosion control. Papers on thermal spray coatings of zinc, aluminum, and their alloys for corrosion mitigation with relevant field applications, and conventional and novel thermal and cold spray coating systems used to prevent corrosion on metal and reinforced concrete structures in all offshore and onshore environments may be included.

▲ SC 10 - Asset Integrity Management

8 a.m. to 5 p.m. | Room 221 B

● QP5 Subcommittee

8:30 to 10 a.m. | Room 225 B

▲ Corrosion of Additively Manufactured Materials

9 a.m. to noon | Room 214 C

Chair: Emerson Nunez | Vice Chair: Robert Mason

This symposium features technical papers that address the corrosion-related issues of additively manufactured (AM) materials, mainly metals. In contrast to conventional processes, additive manufacturing processes and post-processing treatments result in unique microstructures and material surfaces that alter the corrosion performance. Subjects include but are not limited to: process-structure-performance relationships, post-processing treatments and surface finish, corrosion mechanism of AM materials, AM material degradation in corrosive environments, AM materials selection and applications, AM qualification and certification, integrity or risk analysis and assessment, etc.

● QP General Subcommittee

10:30 a.m. to noon | Room 225 B

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Anodic and Cathodic Protection (Day 2)

Chair: Daniel Fingas | Vice Chair: Spencer Easthope | 8:00 a.m. - 10:00 a.m. | Room 303 ABC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17722 | Cathodic Protection Of Mooring Chain In Offshore Environment | Faisal Shahzad, Kristian Varne, and Nils Olav Digre (Imenco Corrosion Technology AS) |
| 8:35 a.m. | C2022-17872 | Monitoring And Controlling Cathodic Protection Without Using Reference Electrode — Cathodic Production Effectiveness Margin From Multielectrode Sensor | Lietai Yang and Xiaodong Sun (Corr Instruments LLC) |
| 9:00 a.m. | C2022-18124 | Design Of Cathodic Protection System For Duplex Stainless-Steel Pipeline: Protection Criteria And Hydrogen Embrittlement Management | Ashraf Alaasmi (BP office), Katherine Buckingham (DNV GL), Timothy Bieri and Ziru Zhang (BP America Inc) |
| 9:25 a.m. | C2022-17823 | Cathodic Protection -Based Solutions For Corrosion Prevention Of "Green Aluminum" Alloys | Marco Bandiera, Alessandro Mancini, Andrea Bonfanti, Arianna Pavesi, Bozhena Tsyupa, Federico Bertasi (Brembo S.p.A.); Massimiliano Bestetti (Politecnico di Milano) |

Bridge and Infrastructure Coatings & Corrosion (Day 2)

Chair: Christopher Alexander | Vice Chair: I-Wen Huang | 8:00 a.m. - 10:30 a.m. | Room 210

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17781 | Investigation & Mitigation Of Corroding Unbonded Post-Tension Tendons | Lenard Mancs and David Whitmore (Vector Corrosion Technologies) |
| 8:35 a.m. | C2022-17734 | Long-Term Case Studies Of Cathodic Protection Along The Texas Gulf Coast | Stephen Foster and Kyle Myers (Wiss, Janney, Elstner Associates) |
| 9:00 a.m. | C2022-17836 | Metallizing Steel Bridges In New England - It'S Growing! | Jerry Zoller (NH DOT), Martin Gagne (Zelixir Inc) |
| 9:25 a.m. | C2022-17479 | Shop Painting Vs Field Painting Of Steel Bridges The Pros And Cons | Charles Brown (Greenman-Pedersen Inc) |

Characterization and Performance of High Temperature Materials/Coatings for Industrial Applications in Refining, Petrochemical and Power Generation Industries

Chair: Bill Valerioti | Vice Chair: Bingtao Li | 8:00 a.m. - 11:00 a.m. | Room 221 D

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17945 | High Temperature Corrosion Resistance Of Alloy N07740 In Solar And Low Emission Ultrasupercritical Power Generation | Stephen McCoy (Special Metals Corporation), Brian Baker and John Debarbadillo (PCC Energy Group), Mark Anderson (University of Wisconsin-Madison) |
| 8:35 a.m. | C2022-17529 | The Evaluation Of Corrosion Behavior Of Austenitic Stainless Steels And Ni-Based Alloys In Molten Salts Under Isothermal And Thermal Cycling For Condition Concentrated Solar Power Plants | Qingyang Liu, Anne Neville, Chun Wang, Frederick Pessu, and Richard Barker (University of Leeds); Jiong Qian (Zhejiang JIULI Hi-Tech Metals Co. Ltd) |

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|------------|-------------|--|---|
| 9:00 a.m. | C2022-18018 | Compatibility Of Steels At 450°-650°C In Supercritical CO ₂ With O ₂ And H ₂ O Additions | Bruce Pint, James Keiser, and Rishi Pillai (Oak Ridge National Laboratory) |
| 9:25 a.m. | C2022-17552 | Effect Of Varying H ₂ S Content On High Temperature Corrosion Of Austenitic Alloys In A Pyrolysis Process Of Post-Consumer Plastics | Manuela Nimmervoll (Montanuniversität Leoben), Gregor Mori (University of Leoben), Roland Haubner (Technical University of Vienna), Stefan Hönig (OMV Refinery Schwechat) |
| BREAK | | | |
| 10:10 a.m. | C2022-17570 | Metal Dusting Resistance Of Nicmocu Alloy And Its Weld Overlay Under High Pressure Condition | Bingtao Li and Vinay Deodeshmukh (Haynes International, Inc.); Mathias Galetz (Dechema Forschungsinstitut), |
| 10:35 a.m. | C2022-17536 | Proposal Of 18Cr-8Ni Based Austenitic Stainless Steel With Superior Stress Relaxation Cracking Resistance | Takahiro Osuki, Masaki Ueyama, Shinnosuke Kurihara, Toshihide Ono, and Yuhei Suzuki (Nippon Steel Corporation) |

Corrosion in Nuclear Systems

Chair: Sheewa Feng | Vice Chair: Sandeep Chawla | 8:00 a.m. - 11:30 a.m. | Room 214 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-18127 | Examination Of A Ferritic Martensitic Steel Following Irradiation And High Temperature Water Corrosion | Ronald Clark and Rob Burrows (National Nuclear Laboratory), Christopher Jones, David Kumar, Dong (Lilly) Liu, Jean-Charles Eloi, and Tomas Martin (University of Bristol); Kun Mo (Argonne National Laboratory) |
| 8:35 a.m. | C2022-18228 | Cobalt/Chromium Carbide Composite Coatings Applied By Brush Plating For Use As An Alternative To Hard Chrome | Joshua Thomas, Allison Furlong, and Danijela Milosevic-Popovich (SIFCO Applied Surface Concepts) |
| 9:00 a.m. | C2022-18229 | Highlighting The Use Of Brush Plating For Plating On Titanium, Nickel Plating, Copper Plating And Metal Matrix Composite Materials | Allison Furlong, Joshua Thomas, and Danijela Milosevic-Popovich (SIFCO Applied Surface Concepts) |
| 9:25 a.m. | C2022-18062 | Review Of Techniques To Evaluate SCC Susceptibility Of Carbon Steels Used In Construction Of Nuclear Waste Tanks | Brandon Rollins, Joe Gerst, John Beavers, Narasi Sridhar, and Sandeep Chawla (DNV GL), Crystal Girardot and Jason Page (WRPS), Shawn Campbell |
| BREAK | | | |
| 10:10 a.m. | C2022-18002 | Evaluation Of Pitting Penetration Associated With Steel Exterior Of Hanford Tanks | Kenneth Evans, Brandon Rollins, John Beavers, Katie Sherer, Narasi Sridhar, and Sandeep Chawla (DNV GL); Crystal Girardot and Jason Page (WRPS) |
| 10:35 a.m. | C2022-17550 | Tank Waste And Ground Water Effects On The Corrosion Susceptibility Of The Secondary Liner Of Hanford Double-Shell Tanks | Sheewa Feng (Hanford Laboratory Management and Integration) |
| 11:00 a.m. | C2022-17514 | Primer For The Inspection, Testing, And Analysis Of Electrically Continuous Reinforced Concrete Structures | Samuel Rivera (Piping and Corrosion Specialties, Inc.) |

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Corrosion Management (Day 2)

Chair: Hendrik Debruyne | Vice Chair: Brian Burgess | 8:00 a.m. - 9:00 a.m. | Room 217 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17568 | Next Step To Advanced Data Analysis With Pulsed Eddy Currents | Gabriel Cyr, Andreanne Potvin, Donald Picard, and Olivier Bellavance (Eddyfi) |
| 8:35 a.m. | C2022-18088 | New Long Service Life Topcoats For Pad-Mounted Transformer Enclosures. | Kurt Wood (Arkema, Inc.) |

Corrosion of Additively Manufactured Materials

Chair: Emerson Nunez-Moran | Vice Chair: Robert Mason | 9:00 a.m. - 12:00 p.m. | Room 214 C

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 9:10 a.m. | C2022-17580 | Corrosion Characterization And Performance Evaluation Of Co-Cr Alloys By Laser Powder Bed Fusion And Suitability Of Their Use For Pressure Containing Down-Hole Wear Components | Reece Goldsberry, Brendan Voglewede, and Krutibas Panda (Halliburton Energy Services) |
| 9:35 a.m. | C2022-17496 | High Strength Austenite For Additive Manufacturing | Andreas Mohr, Horst Hill, Janosch Conrads, Karlheinz Hoeren (Deutsche Edelstahlwerke Speciality Steel GmbH) |
| 10:00 a.m. | C2022-17583 | Mechanical, Microstructural And Corrosion Characterization Of Low Binder Containing WC-Co Grades Using A Binderjet Process | Reece Goldsberry and Krutibas Panda (Halliburton Energy Services); Ed Rusnica, Jerry Dominguez, Paul Prichard, and Zhuging Wang (Kennametal Inc) |
| BREAK | | | |
| 10:45 a.m. | C2022-18133 | Investigation Of Corrosion In WAAM Manufactured Materials | Aishwarya Aishwarya (CETIM-MATCOR) |
| 11:10 a.m. | C2022-17938 | Material Capabilities Of Additively Manufactured Alloy UNS N07718 In An H ₂ S-Containing Environment | Wei Chen, Aaron Avagliano, Anjani Achanta, Satya Ganti, Thomas Dobrowolski, and Tim Haeberle (Baker Hughes) |
| 11:35 a.m. | C2022-18029 | Performance Of Additively Manufactured Alloy 718 In Sour Service | Liu Cao and Christopher Taylor (DNV) |



The most important aspect of this conference is learning new corrosion control methods.

- Jesús Mejía Tello, Cálidda Lima



Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Materials and Integrity in Oil Sands

Chair: Duane Serate | Vice Chair: Matthew Krantz | 8:00 a.m. - 12:00 p.m. | Room 301 BC

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|--|
| 8:10 a.m. | C2022-17506 | 3D Printing Of Cemented Carbide: A Review And Perspectives In Oil Sands | Young Li (Suncor Energy) |
| 8:35 a.m. | C2022-17743 | Corrosion In Dense Slurry And Models Performance | Kofi Freeman Adane (Alberta Innovates) |
| 9:00 a.m. | C2022-18059 | Corrosion Of UNS S31603 Under Partial Upgrading Of Bitumen Using Thermal Cracking | Xue Han (CanmetMATERIALS), Kaiyang Li (University of Alberta), Yimin Zeng |
| 9:25 a.m. | C2022-17682 | External Stress Corrosion Cracking Of In-Situ Carbon Steel Pipelines | Duane Serate (Suncor), Haixia Guo, Matthew Krantz (InnoTech Alberta), Simon Yuen, Victor Itulua (Husky Energy), Yashar Behnamian |
| BREAK | | | |
| 10:10 a.m. | C2022-17838 | Importance Of Quality Control Of Wear Resistant Overlays In Oil Sands Production Operations. | Satya Kompally and Jeff Liu (Canadian Natural Resources Limited) |
| 10:35 a.m. | C2022-17670 | Severe Pipe Damage In SAGD Steam Distribution Lines | Haixia Guo (Suncor Energy Inc.) |
| 11:00 a.m. | C2022-17748 | Wear Performance Evaluation Of Chrome Carbide Overlays (Ccos) | Md. Aminul Islam, Jiaren Jiang, and Yongsong Xie (National Research Council Canada) |
| 11:25 a.m. | C2022-17981 | Effective SCC Inspection Of In-Situ Oil Sands Pipelines Using Advanced Eddy Current Array Technology | Michael Sirois and Mathieu Bouchard (Eddyfi) |

Progress in Laboratory Testing of Corrosion Inhibitors for Oil Field Applications

Chair: Bruce Brown | Vice Chair: Juan Dominguez Olivo | 9:30 a.m. - 12:00 p.m. | Room 217 B

| Start Time | Document # | Title | Author(s) |
|------------|-------------|--|---|
| 8:10 a.m. | C2022-17942 | Effect Of Organic Solvent On Corrosion Inhibition of Mild Steel in CO ₂ environment | Xi Wang, Marc Singer, Shuai Ren, and Yi He (Ohio University); David Young (ICMT), Maalek Mohamed-Saïd (TOTAL), Sheyla Camperos (TRTG - TOTAL Research & Technology Gonfreville) |
| 8:35 a.m. | C2022-17903 | Assessment Of Precorrosion Methods For Inhibitor Testing Under Sour Conditions | Ioşef Attila Palencsar (IFE), Rolf Nyborg (Institute for Energy Technology) |
| 9:00 a.m. | C2022-17739 | In Situ Atomic Force Microscopy Study Of Microstructure Dependent Inhibitor Adsorption Mechanism On Carbon Steel | Huiru Wang and Srdjan Nestic (Ohio University), Alain Pailleret (Laboratoire Interfaces et Systèmes Electrochimiques), Bruce Brown (Institute for Corrosion and Multiphase Technology), |
| 9:25 a.m. | C2022-17824 | Can Micelles Be Used To Expedite And Enhance Laboratory Qualification Testing? | Scott Rankin (Anpera Technologies), Andy Osnowski (Anpera Technologies) |
| BREAK | | | |

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|------------|-------------|--|---|
| 10:10 a.m. | C2022-18043 | Corrosion Inhibitor Surfactant Optimization: Part 1 - Inhibitor Efficiency Approach | Richard Woollam, Joshua Owen, Richard Barker, and Yasmin Hayatgheib (University of Leeds) |
| 10:35 a.m. | C2022-18045 | Corrosion Inhibitor Surfactant Optimization: Part 2 – Adsorption Kinetics Approach | Richard Woollam, Joshua Owen, Richard Barker, and Yasmin Hayatgheib (University of Leeds) |
| 11:00 a.m. | C2022-17597 | Effect Of Hydrophobic Interaction On Corrosion Inhibitor Efficiency | Susumu Hirano, Ayano Yasui, Hiroataka Mizukami, Sei Tatsuya, and Toshiyuki Sunaba (Inpex Corporation) |
| 11:25 a.m. | C2022-17918 | Residual Analysis Assay For Thiol-Based VCI Quantification In Top-Of-Line Corrosion Environments | Mariana Folena (PEMM/UFRJ), Anne Neville, Iain Manfield, Joshua Owen, Richard Barker (University of Leeds); Hanan Farhat (Qatar Environment and Energy Research Institute), Ose Antonio Gomes (Federal University of Rio de Janeiro), |
| 11:50 a.m. | C2022-18056 | Development Of Methodologies For Continuous And Batch Inhibitor Film Persistency Investigation In The Laboratory | Mengqiu Pan, Marc Singer, and Maryam Eslami (Ohio University), Bruce Brown, and Kasra Shayar Bahadori (Institute of Corrosion and Multiphase Technology) |

Recent Experiences With Austenitic and Duplex Stainless Steels (Day 2)

Chair: Lena Wegrelius | Vice Chair: Nicole Kinsman | 9:30 a.m. - 12:00 p.m. | Room 221 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17628 | Refinement Of Citric Acid Passivation Methods And Comparison To Traditional Nitric Acid Based Chemistries | David Enos and Derek Wichhart (Sandia National Laboratories) |
| 8:35 a.m. | C2022-17783 | Corrosion Behavior Of Stainless Steel Food Processing Equipment In Low Ph Environments | Suresh Divi and Harbinder Pordal (Stress Engineering Services) |
| 9:00 a.m. | C2022-17564 | Evaluation Of Corrosion Pitting In A 317L Stainless Steel Surface Condenser Tube Bundle | Mel Esmacher and Kumar Kembaiyan (SUEZ WTS), Edward Blessman (Nobilis Pipe) |
| 9:25 a.m. | C2022-18105 | Failure Of In-Service Stainless-Steel Chemical Storage Tanks Fasteners And Gaskets – A Case Study | Tariq Kamshad (Kuwait Gulf Oil Co.) |

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AMPP has allowed me to develop my skills and potential towards corrosion here in Cairo, giving an overall point of view to the industry.

- Mohamed Samir Arab, Suez Oil Co.

”

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

Surface Preparation

Chair: Loren Hatle | Vice Chair: Taylor Nguyen | 8:00 a.m. - 10:30 a.m. | Room 213A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-18152 | Atmospheric Plasma: One-Step Precision Process To Remove Coating And Promote Chemical Adhesion | Pietro Ranieri, Jason Stimson, Levi Snowden, and Pete Yancey (Atmospheric Plasma Solutions, Inc.) |
| 8:35 a.m. | C2022-17888 | Conditioning Of Steel Surfaces With Various Abrasive Blast Media And Effect On Coating Performance | Andrew Recker (Sherwin-Williams) |
| 9:00 a.m. | C2022-18086 | Developments In Abrasive Blast Nozzle Technology: Reducing Noise Exposure While Preserving Nozzle Performance And Usability | Matthew Sullivan (Oceanit) |
| 9:25 a.m. | C2022-17932 | How The Right Pot Choice And System Set Up Can Improve Blasting Efficiency Continued | David Barnes (Elcometer) |
| BREAK | | | |
| 10:10 a.m. | C2022-18182 | Laser Cleaning For Surface Preparation For Pre-Weld And Pre-Bonding Applications | Tyler O-Neill (Adapt Laser) |
| 10:35 a.m. | C2022-17806 | The Effects Of Different Blast Abrasives On The Performance Of Liquid-Applied Epoxy Pipeline Coatings | Haralampos Tsapraillis (Enbridge Employee Services Canada, Incorporated), Shan Rao (A Plus Coating Solutions , Inc.) |

Thermal and Cold Spray Coatings

Chair: Shiladitya Paul | Vice Chair: Martin Gagne | 8:00 a.m. - 2:00 p.m. | Room 214 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|--|
| 8:10 a.m. | C2022-17837 | The NH-ME Metallized Memorial Bridge | Jerry Zoller (NH DOT), Martin Gagne (Zelixir, Inc.) |
| 8:35 a.m. | C2022-17571 | Arc Sprayed Zinc Metalizing For Cathodic Protection Of Reinforced Concrete Structures | David Whitmore (Vector Corrosion Technologies), Travis Marman |
| 9:00 a.m. | C2022-17526 | Innovative And Sustainable Corrosion Protection Solutions For Foundation Structures Of Offshore Wind Turbines | Frank Prenger and Kathrin Hesnaoui (Grillo-Werke AG) |
| 9:25 a.m. | C2022-17803 | Life Cycle Costs For Thermal Spray Zinc Duplex Coatings On Long Lifetime Steel Constructions | Martin Gagne (Zelixir Inc), Knut Ove Dahle (Norwegian Public Roads Administration), Ole Knudsen (SINTEF Materials and Chemistry) |
| BREAK | | | |
| 10:10 a.m. | C2022-18207 | Combining Thermal Spray Zinc And Hot-Dip Galvanizing To Achieve An All Metallic Zinc Coating System | Bernardo Duran (International Zinc Association) |
| 10:35 a.m. | C2022-17798 | Calcareous Deposition On Thermally Sprayed Aluminium Surfaces | Mobin Salasi (Mobin Salasi), Edgar Hornus, Francisco Vouilloz, Mariano Iannuzzi, and Yu Long (Curtin University); Kjetil Andersen and Ola Krosness (Aker Solutions), Mike King (Wood plc), Roy Johnsen (Norwegian Univ of Sci & Tech), |

Thursday, March 10

All meetings will be held at the Henry B. González Convention Center unless otherwise indicated. See end of each day's section for individual paper listing.

| | | | |
|------------|-------------|---|---|
| 11:00 a.m. | C2022-17641 | Simulation Of The Damage Tolerance Of Thermal Spray Aluminium Sacrificial Coating In Artificial Seawater | Adriana Castro Vargas (University of Leicester), Shiladitya Paul (TWI) |
| 11:25 a.m. | C2022-17637 | Suspension-High Velocity Oxy-Fuel Spray Tio2 Coatings And Their Corrosion Behaviour | Garima Mittal (University of Leicester), Alex Sabard, Imran Bhamji, Shiladitya Paul (TWI) |
| BREAK | | | |
| 1:00 p.m. | C2022-17691 | Development Of Multilayer Coating Systems For Self-Healing Protection And Corrosion Mitigation In The Atmospheric Zone Of Offshore Wind Turbines. | Adamantini Loukodimou, David Weston, and Dimitrios Statharas (University of Leicester), Shiladitya Paul (TWI) |
| 1:25 p.m. | C2022-17547 | Coatings To Regulate Scaling In Geothermal Applications | Shiladitya Paul, Alex Sabard, and Briony Holmes (TWI Ltd) |

Water and Wastewater System Challenges and Solutions

Chair: Carlos Palacios | Vice Chair: Diana Miller | 8:00 a.m. - 11:30 a.m. | Room 302 A

| Start Time | Document # | Title | Author(s) |
|------------|-------------|---|---|
| 8:10 a.m. | C2022-17837 | The NH-ME Metallized Memorial Bridge | Jerry Zoller (NH DOT), Martin Gagne (Zelixer, Inc.) |
| 8:35 a.m. | C2022-17571 | Arc Sprayed Zinc Metalizing For Cathodic Protection Of Reinforced Concrete Structures | David Whitmore (Vector Corrosion Technologies), Travis Marman |
| 9:00 a.m. | C2022-17526 | Innovative And Sustainable Corrosion Protection Solutions For Foundation Structures Of Offshore Wind Turbines | Frank Prenger and Kathrin Hesnaoui (Grillo-Werke AG) |
| 9:25 a.m. | C2022-17803 | Life Cycle Costs For Thermal Spray Zinc Duplex Coatings On Long Lifetime Steel Constructions | Martin Gagne (Zelixer Inc), Knut Ove Dahle (Norwegian Public Roads Administration), Ole Knudsen (SINTEF Materials and Chemistry) |
| BREAK | | | |
| 10:10 a.m. | C2022-17655 | Cathodic Protection Monitoring In Water And Wastewater Systems | Jamey Hilleary (Elecsys Corporation) |
| 10:35 a.m. | C2022-17756 | Investigation On The Localized Corrosion Performance Of Lean Duplex Stainless Steels In Urban Wastewater Treatment Plants | Audrey Allion (Aperam), Benoit Emo (Home), Dominique Thierry (French Corrosion Institute), Elisabeth Johansson (Outokumpu Stainless AB), Nicolas Larche |
| 11:00 a.m. | C2022-18136 | Upcoming Changes To NSF Drinking Water System Components Program (NSF 600) - No Need To Be Afraid | Steven Roetter (Sherwin Williams) |

Student Poster Session

Posters are grouped in three categories in which they will be judged. Judging categories are:

- Mars Fontana Prize for the best posters in “Corrosion Engineering”
- Harvey Herro Prize for the best posters in “Applied Corrosion Technology”
- Marcel Pourbaix Prize for the best posters in “Corrosion Science”

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Student Poster Orientation

Monday, March 7 | 9 to 10:30 a.m. | HemisFair Ballroom C3

Poster Setup

Monday, March 7 | 11:30 a.m. to 3:30 p.m. | Exhibit Hall

First Poster Session

Monday, March 7 | 5 to 7 p.m. | Exhibit Hall

Second Poster Session

Tuesday, March 8 | noon to 1:30 p.m. | Exhibit Hall

Poster Winner Announcement

Wednesday, March 9 | 12:30 p.m. | Exhibit Hall

Posters should not be removed from the Exhibit Hall until Wednesday, March 9 after 1 p.m.

Mars Fontana Category

| | | |
|--|----------------------|---|
| An Experimental Methodology for Determination of Chloride Threshold (CT) of Steel Rebars in Simulated Concrete Pore Solution (SCPS) Based on AC and DC Electrochemical Methods | Yi Lu | Texas A&M University |
| Assessment of Conductive Sites on Carbon Fibre Reinforced Polymer Composite Using Electrochemical Methods | Priyanka Adapala | The Ohio State University |
| Atmospheric Corrosion Performance of I-95 Quinnipiac River Old Bridge Steel | Donghyun Kim | University of Connecticut |
| Camphorsulfonic Acid as an Etching Inhibitor in Zn-Rich Organic Coatings On Carbon Steel in Highly Corrosive Atmospheric Environments | Leah Scully | Curtin University |
| CO ₂ Corrosion in the Presence of a Hydrocarbon Phase | Neda Norooziasl | Institute for Corrosion and Multiphase Technology |
| Correlation of Accelerated Laboratory Electrochemical Experiments and Atmospheric Exposure for Aluminum Galvanic Couples | Toomas Kollo | University of Alaska Anchorage |
| Effect of Size and Size Distribution of Nb-Bearing Precipitates on Hydrogen Trapping Capacity of Model Fe-C-Mn-Nb Steel | Sara Filice | McMaster University |
| Effect of Solution Ph and Temperature on Corrosion Rate Retardation in the Presence of Trace Concentrations of H ₂ S in a CO ₂ Environment | Adam Cutright | Ohio University |
| Effect of the Recycled Content in HPVADC Aural2 (Alsi10mg) on Corrosion Behaviour | Yuki Ando | McMaster University |
| Effects of 1-Benzyl-4-Phenyl-1H-1,2,3-Triazole as an Organic Corrosion Inhibitor in Different Alternatives of Steel Reinforcing Bars | Jorge Escribano | The University of Texas at San Antonio |
| Effects Of Cl ⁻ and H ₂ S Concentration on Passive Film Breakdown of Modified 13Cr Martensitic Stainless Steels | Alan Martinez | Texas A&M University |
| Factors in Galvanic Corrosion Between Steel and Iron Sulfides in Acidic Solutions | Payman Sharifi Abdar | Payman Sharifi Abdar |
| Inhibiting Galvanic Corrosion of Aluminum Alloys When Coupled with CFRP Composites through Diazonium Surface Modification of the Exposed Carbon Fibers | Isuri Dammulla | Michigan State University |

Student Poster Session

| | | |
|--|--------------------|---|
| Long Term, Simulated Marine Diurnal Exposure of Austenitic Stainless Steel at Elevated Temperatures | Timothy Montoya | Sandia National Labs |
| Modeling and Experimental Study on the Presence of Channels in a Gel Electrolyte During Galvanic Corrosion of the Mg/AA7075 Couple | Luis Benitez Perez | UNAM |
| Relationship Between Microstructure and Corrosion Behaviors of Electron Beam Melted Ti-6Al-4V | Kevin Zhang | University of Connecticut |
| Role of Formic Acid in the Corrosion Mechanisms of Mild Steel | Sahithi Ayyagari | Institute for Corrosion and Multiphase Technology |
| Separation of Naphthenic Acids in Vacuum Gas Oils (Vgos) Using Solid Phase Extraction (SPE) Cartridges | Ishan Patel | Ohio University |
| Stress-Affected Corrosion Kinetics on Airframe Materials | Meggan Wolanin | University of Texas at San Antonio |
| Syringe Cell Electrochemical Testing for Evaluation of Pitting Corrosion in Stainless Steel Welds with No Backing Gas | Jeremy McNicol | The Ohio State University |
| Temperature Effects on Corrosion Inhibition Efficiency of Tetradecyltetrahydropyrimidinium | Yi He | Ohio University |
| The Effect of Macro Galvanic Cell on Cathodic Protection System Design for Steel in Seawater | Caglar Erdogan | Caglar |
| The Effect of Sulfate-to-Chloride and Nitrate-to-Chloride Ion Ratio on the Kinetic Parameters for Pit Stability | Armando Shehi | University of Virginia |

Harvey Herro Category

| | | |
|--|------------------------|---|
| Accelerated Corrosion Assessment of NiMnGa Magnetic Shape Memory Alloy | Quinn Hulse | Boise State University |
| Active Passive Characteristics of 316L Stainless Steel Prepared by Different Additive Manufacturing Techniques | Lin Chen | Texas A&M University |
| Artificial Intelligence Evaluation of Influential Parameters to Microbiologically Influenced Corrosion | Andre De Araujo Abilio | University of Alberta |
| Assessment of Corrosion Behavior of High Entropy Alloy in Simulated Soil Environments with Varying Temperature | Olivia Esmacher | Texas A&M University |
| Carbon Source Starvation Caused More Severe Corrosion Against Titanium by <i>Desulfovibrio Vulgaris</i> | Lingjun Xu | Ohio University |
| Corrosion of Additive Friction Stir Deposited AZ31B Utilized in Biomedical Applications | Yoel Emun | University of Alabama |
| Corrosion of High Entropy Alloys | Avery Barlow | Texas A&M National |
| Corrosion Protection Properties of Epoxy Coatings Reinforced by Carboxymethyl Cellulose (CMC) Functionalized Carbon Nanotubes (Cnts) on Mild Steel | Dawei Zhang | North Dakota State University |
| Diabetes as a Risk Factor for Orthopedic Implant Surface Performance: A Retrieval and In Vitro Study | Alexandra Arteaga | The University of Texas at Dallas |
| Discovering the Corrosion Mechanism of Chromium in High-Temperature LiF-NaF-KF Molten Salts for Gen-IV Molten Salt Reactor Applications | Ho Lun Chan | Materials Science & Engineering Wilsdorf Hall |
| Electrochemical Behavior of Directed Energy Deposited (DED) Co-Cr-Mo Alloys in Simulated Electrolytes for Biomedical Applications. | Deeparekha Narayanan | Texas A&M University |
| High, Medium to Low Fidelity Studies of Aqueous Passivation in FeCoNi – (Cr _x - Aly) Alloys Across Classical Cr Threshold Concentration | Debashish Sur | UVA |

Student Poster Session

| | | |
|---|-----------------------|--|
| Hydrogen Trapping and Diffusion Behavior in Additively Manufactured Martensitic Stainless Steels | Lauren Singer | University of Virginia |
| Impact of Flow on the Development of Iron Carbonate and Iron Sulfide Layers | Maria Serenario | Federal University of São João Del Rei/Ohio University |
| Investigation of the Effect of Applied Polarization During Stress Corrosion Cracking of AA6111 And Its Correlation to Changes in Crack Tip pH | Katrina Catledge | Ohio State University |
| Localized Growth Mechanism as a Function Of Cyclic RH and Variable Ph | Vangelina Osteguín | University of Texas at San Antonio |
| Measuring Aerosol Chlorides for Atmospheric Corrosion Studies in Cold Alaskan Climate | Tyler Cushman | University of Alaska Anchorage |
| Microbiologically Influenced Corrosion of Maritime Platforms | Hannah Eccleston | University of Manchester |
| Modelling and Validating the Oxygen Reduction Reaction | Shrirang Deshmukh | Ohio University |
| Prediction and Quantification of Acidity Generated During Galvanic Corrosion in the Presence of Aluminum Alloys Using Gel Electrolytes | Allan Ruiz | Universidad Nacional Autónoma de México (UNAM) |
| Sensitization Behavior of Cold Spray Deposited Al-Mg Alloys | Munsu Kim | University of Alabama |
| Study of Localized Corrosion Phenomena in Supersaturated Nanocrystalline Al Alloys Using Analytical Instrument | Jijo Christudasjustus | North Carolina State University |

Marcel Pourbaix Category

| | | |
|---|-------------------------|--|
| Adhesion Durability of Coatings on Aluminum Alloys Using the Blister Test, Digital Image Correlation, and Finite Element Methods | Drishya Dahal | University of Texas at San Antonio |
| Anodic Dissolution of Pure Iron in Strong Acid: Replication of Bockris' Approach to Elucidate the Reaction Mechanism | Mohiedin Bagheri Hariri | Ohio University |
| Atmospheric Corrosion Evaluation of Sea Salt and MgCl ₂ Salt Solution Droplets on Austenitic Stainless Steel 316L | Tasnia Fatima | University of Texas at San Antonio |
| Comparison Of Commercial Alloys with Multi Element Component Alloys for Different Electrolytes and Temperature Used in Biomedical Applications | Nina Castaneda | University of Texas at Austin |
| Corrosion Performance of Chromized Type 409 Stainless Steel in a Simulated Inorganic Hydrothermal Liquefaction Conversion Solution | Elliott Asare | McMaster Univeristy |
| Corrosion Protection of Mg-Zn-Al Alloy In Neutral Sodium Chloride Solution by Silane-Polymer Hybrid Film Coating and Electrodeposited Ni-TiO ₂ Composite Coating | Maryam Abtidon | Kuwait University |
| Cyclic Air Oxidation Kinetics of (Y/Yb) ₂ Si ₂ O ₇ Based Environmental Barrier Coatings | Padraig Stack | The University of Akron |
| Distinguish Two Major Types of Microbiologically Influenced Corrosion | Di Wang | Ohio University |
| Effect of Hbn Exfoliation Method on Barrier and Corrosion Inhibition Performance of Epoxy-Hbn Nanocomposite Coatings | Darlyn Quiroz Fonseca | Texas A&M University |
| Effect of Temperature on the Corrosion Inhibition Characteristics of Tetradecyl Phosphate Ester | Shuai Ren | Ohio University |
| Electrochemical Behavior Investigate of a New High-Entropy Alloy: Al ₂ Cr ₅ Cu ₅ Fe ₅ Ni ₃₅ in Marine Environment | Lufeng Xue | Texas A&M University |
| Electrochemical Evaluation Of Metal Rich Primers Applied to Al-Zn-Mg-Cu Alloys | Alen Korjenic | University of Virginia |
| Evaluating 1-Benzyl-4-Phenyl-1H-1,2,3-Triazole as a Green Corrosion Inhibitor for Carbon Steel Reinforcing Bars in Concrete Elements | Loreto Dacio | The University of Texas at San Antonio |

Student Poster Session

| | | |
|--|-------------------------|--|
| Improved Microbiologically Influenced Corrosion Resistance of Cu By Nanosecond Pulsed Laser Surface Treatment | Boxin Wei | Institute of Metal Research, Chinese Academy of Sciences |
| Influence of Heteroatoms Contained within Aromatic Compounds on Corrosion Inhibition of Carbon Steel | Karl Breimaier | University of Akron |
| Influence of Inhibitor Concentrations and Carbon Steel Microstructures on Inhibitor Adsorption Mechanism Investigated by Atomic Force Microscopy | Huiru Wang | Ohio University |
| Investigating the Effects of Temperature, Humidity, and Surface Salt on the Atmospheric Corrosion Fatigue of AA7085-T7451 | Brandon Free | The Ohio State University - Fontana Corrosion Center |
| Mechanistic Modeling of the Impedance Response of Cathodic Reduction of Hydrogen Ion in Strong Acidic Environments | Negar Moradighadi | ICMT |
| Modelling of Thin Film Electrolytes on Galvanic Corrosion from Carbon Fiber Reinforced Polymer in Contact with 7075-T6 Aluminum | Victor Kontopanos | University of Virginia |
| Study of CO ₂ Corrosion Inhibitor Persistency Using a Developed Methodology and Langmuir Isotherm Model in Continuous Treatment | Kasra Shayar Bahadori | Institute of Corrosion and Multiphase Technology |
| Study of SRB Corrosion Using Split Cell Zero-Resistance Ammetry | Sai Prasanna Chinthala | Cleveland State University |
| The Influence of Water Chemistry Titration Procedures on Measured Alkalinity and Predictions of In-Situ pH | Jason Dreher | Ohio University |
| Understanding the Electrochemical Properties of Aluminum Alloy A360 Prepared by Selective Laser Melting Fabrication with and without a Trivalent Chromium Process Conversion Coating | Jack Walton | Michigan State University |
| Use of Corrosion Inhibitors to Combat Pit Propagation During Localized Corrosion: A Literature Review | Bernardo Augusto Santos | Ohio University |
| Use of Quartz Crystal Microbalance in Corrosion Inhibition Research | Kushal Singla | Ohio University |

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I apply AMPP training and certification to my daily job and overall career every day as part of my role as QAQC Specialist Inspector at an onshore/offshore major coal terminal facility in Northern Queensland, Australia.

- Charles McCloskey, Dalrymple Bay Coal Terminal

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Take a few moments to relax and recharge in between sessions at the IUPAT Coatings Lounge. Fully equipped with charging furniture to charge your devices while you get some work done or review notes. The Lounge is open to all attendees and complimentary snacks will be served on a Wednesday.

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The Exhibition: Day-At-A-Glance

Expo Schedule

Monday

5 to 7 p.m. (Expo Grand Opening)

Tuesday

10 a.m. to 5 p.m. (unopposed hours from noon to 2 p.m.)

Wednesday

10 a.m. to 5 p.m. (unopposed hours from 3 to 5 p.m.)

| MONDAY | | TIME |
|--------|--------------------------------|------------|
| | Cathodic Protection (CP) Field | 5 – 7 p.m. |
| | Coatings Experience | 5 – 7 p.m. |
| | Expo Grand Opening* | 5 – 7 p.m. |
| | Silent Auction Bidding | 5 – 7 p.m. |
| | Student Poster Session | 5 – 7 p.m. |

| TUESDAY | | TIME |
|------------------------|------------------------------|---------------------|
| | CP Field | 10 a.m. - 5 p.m. |
| | Coatings Experience | 10 a.m. - 5 p.m. |
| | Protective Coatings Workshop | 10 a.m. – 5 p.m. |
| | Silent Auction Bidding | 10 a.m. – 5 p.m. |
| | AMPPiTheaters | 10:30 a.m. – 5 p.m. |
| | Complimentary Lunch* | 11:45 a.m. – 1 p.m. |
| Student Poster Session | Noon – 1 p.m. | |

| WEDNESDAY | | TIME |
|-----------|---|---------------------|
| | EMERG Student Camp | 10 a.m. – 4 p.m. |
| | Silent Auction Bidding | 10 a.m. – 4 p.m. |
| | CP Field | 10 a.m. - 5 p.m. |
| | Coatings Experience | 10 a.m. - 5 p.m. |
| | AMPPiTheaters | 10:30 a.m. – 5 p.m. |
| | CoatingsPro Magazine Annual Contractor Awards Program | Noon – 12:30 p.m. |
| | Student Poster Session Winners Announced | Noon – 1 p.m. |
| | Harley Giveaway | 4 p.m. |

*Due to laws/liabilities, no one under the age of 18 will be given access to the Exhibit Hall during the Expo Grand Opening on Monday, March 7. Complimentary lunch is available for full conference attendees.

MONDAY

Expo Grand Opening

5 to 7 p.m.

AMPP and our exhibitors are excited to unite in person, network and foster new relationships in the exhibit hall. The Expo Grand Opening kicks off the opening of the hall with a complimentary drink ticket redeemable at any bar placed throughout the hall. Take this opportunity to see what new innovations our exhibitors have been up to, network with those in your industry and check out the fantastic hands-on training our test fields have to offer.

TUESDAY

Protective Coatings Workshop

10 a.m. to 5 p.m.

Want to stay current on the latest coatings developments and technologies available? AMPP is excited to announce the return of the Protective Coatings Workshop. This interactive workshop, designed for coatings applicators, inspectors, and contractors of all experience levels, will feature engaging discussion and presentations from coatings industry leaders, an introduction to new emerging technologies and techniques, and highlight best practices from experts. In addition, you will get the opportunity to network with fellow contractors, inspectors, and suppliers. For more information, see page @@

WEDNESDAY

CoatingsPro Magazine Annual Contractor Awards Program

Noon to 12:30 p.m.

CoatingsPro's Contractor Awards Program is designed to showcase and recognize the projects and crews that demonstrate excellence in the field of high-performance commercial and industrial coatings. Award winners in seven categories—Commercial Concrete, Commercial Roof, Industrial Concrete, Industrial Steel, Specialty Project, Work It Safe, and Contractor Crew MVP—will be announced.

Student Poster Session Award Ceremony

12:30 to 1:30 p.m.

The best student posters will be recognized in the Student Poster Awards Ceremony for first-place, second-place, and third-place posters in three poster categories along with the best undergraduate poster. Winning students will receive monetary prizes, sponsored by BP, and the first-place winners of each category will be invited to publish an open access Poster Award Research Letter in CORROSION journal, the sponsoring publication.



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The Exhibition: Day-At-A-Glance

MULTI-DAY EVENTS

AMPPiTheaters

Access a variety of unique presentations on materials protection through corrosion control and protective coatings in the exhibit hall's AMPPiTheater. We offer two mini auditoriums that feature industry leaders and AMPP staff who will facilitate interactive discussions on infrastructure and asset protection that are relatable to your own field of expertise. AMPPiTheaters will be open to conference attendees and exhibit visitors on Tuesday, March 8 and Wednesday, March 9.

Please see the program schedule for specific presentation times.

Sponsored by



Cathodic Protection Field

Check out the field-testing exhibit on the show floor—an actual representation of a cathodic protection (CP) field with the opportunity for hands-on activities. Perform several CP-related tests at the field-testing exhibit and learn from industry experts who will be available to answer questions or discuss CP problems you may have. This is your opportunity to gain hands-on experience by performing tasks such as:

- CP interference
- Alternating current voltage mitigation
- Electrical isolation testing and short locating

Coatings Experience

While you're in the exhibit hall, be sure to stop by the Coatings Experience. This is an interactive area that will introduce those interested in coatings to the ins and outs of application, surface preparation, inspection plans, and coatings selection in a fun and interactive way!

Dairyland Lounge

Get this year's hottest souvenir—a commemorative t-shirt that is printed live in the Dairyland Lounge (#2563). While you're there, learn how Dairyland is working to make the world a safer place through their Live Engaged initiative. Don't miss out!

Sponsored by



Heavy Equipment Area

AMPP Annual Conference + Expo will have a designated area for heavy equipment that will allow companies to display large appliances. See equipment such as skid mount vacuums, blasting systems, combination of dust collectors or high-performance vacuum power units, and more up close and in an indoor setting.

High Rollin' for a Harley Giveaway

We are giving away a Harley Davidson, and this is YOUR chance to win! Visit each High Rollin' for a Harley sponsor at AMPP Annual Conference + Expo to collect a playing card from each sponsoring booth. Once all playing cards have been collected, hightail it over to the Harley on the Exhibit Hall floor, and complete the submission card to enter to win. Winner will be announced Wednesday at 4 p.m. in the exhibit hall.

Sponsored by



Product Showcase

Stop by AMPP's Product Showcase to see the latest innovations and new products from our exhibiting companies. The Product Showcase is your first look at the industry's cutting-edge technology and includes product descriptions along with the exhibiting company's booth number. The Product Showcase is located at the entrance to the Exhibit Hall.

The Exhibition: Day-At-A-Glance

Silent Auction

Take a break from the action in the exhibit hall and browse the wide variety of items and collectibles available at the silent auction. Items will be on display and open for bidding during conference hours through 4 p.m. on Wednesday, March 9.

Proceeds will benefit the EMERG Student Outreach Program in our efforts to open doors to new opportunities for students and veterans through a variety of new engagement programs. This new program is designed to raise awareness of career paths in the materials protection field.

Student Poster Display

To encourage student involvement in the field of coatings and corrosion technology, the AMPP Research Program Committee and BP sponsors a Student Poster Session at AMPP Annual Conference + Expo. Posters will be on display in the exhibit hall on Monday evening through Thursday, and the display will be staffed by students on Monday from 5 to 7 p.m. and Tuesday from noon to 1 p.m.

Winners will be announced on Wednesday at 12:30 p.m.

Sponsored by



“

The best part of the AMPP Annual Conference + Expo is the confluence of the best minds in the industry and academia at the same forum. I have been associated with metallurgy and corrosion since 1993, and this conference helps me tremendously in staying engaged with my discipline.

- Sudhakar Mahajanam,
Stress Engineering Services

”





SUNBIRD SP

- Solar-powered
- 5G IoT
- Advanced AC Monitoring
- On-demand data
- Automatic installation; no laptop required

As featured in *Materials Performance* magazine, our customers call the **SUNBIRD SP** the industry “game-changer”.

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MERLIN XT6

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- Weatherproof & robust lightning protection
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Iridium is the **ONLY** satellite network to cover the entire planet with 66 in Low-Earth Orbit (LEO) satellites.

Exhibitors

C Corporate Members

S Sponsor

Corporate members/sponsors as of 2/7/2022

C 1Priority Environmental Services, Inc.

Booth 2859

1 Priority Environmental Services, Inc., and its coating and bridge painting DBA called 1 Priority Coating & Bridge Painting; both EIS Holdings companies headquartered in Fort Worth, TX are premier environmental services contractors providing asbestos abatement, lead paint abatement, mold remediation, hazardous materials abatement, demolition services and specialty coating services from our 21 total locations across Texas, Louisiana, Arkansas, Oklahoma, Georgia, Florida, Colorado, Iowa and Nebraska with a staff over 750 employees, insurance limits of \$10M, bonding capacity of \$60M. Address: Fort Worth, TX. Web site: go1priority.com.

C 10X Engineered Materials

Booth 1452

10X Engineered Materials is a technology-driven manufacturer producing a new category of sustainable, high-performance abrasives called superoxalloy. We have developed products that meet the critical industry need for fast, cost-effective abrasives. Our abrasives are fast acting on tough coatings and leave an excellent profile with a white metal finish and virtually no embedment. Sustainably sourced and manufactured in the USA. Address: Wabash, IN. Web site: www.10xem.com.

Abrasives, Inc.

Booth 928

Abrasives Incorporated, home of Black Magic® Coal Slag, is the leader in coal slag, blast media and equipment sales. We serve surface prep and coating professionals from start to finish. Based in North Dakota, we deliver to customers throughout the world. One call and we take care of it all. Address: Glen Ullin, ND. Web site: www.abrasivesinc.com.

Abriox, Inc.

Booth 2657

Abriox is an award-winning high-tech specialist in remote monitoring and control for cathodic protection. Our new SUNBIRD range utilizes 5G IoT for communication to 2030 and beyond, and includes the solar-powered SUNBIRD SP test post monitor customers have called the industry 'game-changer'. Our Merlin® range has earned the reputation as the benchmark in reliable, accurate and easy-to-use RMUs with outstanding customer support. All Abriox RMUs can be controlled with simple commands from your cell phone. USA HQ Address: Amelia, OH. Web site: www.abriox.com.

Access Plug Flange, Inc. (APF)

Booth 2012

Access Plug Flange, Inc. (APF) manufactures inspection ports that are installed on the insulation jacket of insulated pipelines, vessels, tanks, and equipment, allowing inspectors safe and easy access to perform nondestructive testing for mechanical integrity purposes and to check for CUI. APF inspection ports are designed to meet process temperatures ranging from -185 to 1200°F (-120.6 to 648.9°C). They are available in a wide variety of shapes and sizes. APF inspection ports are weather-tight, reliable, durable, safe and easy to install. Address: Houston, TX. Web site: www.inspectionplug.com.

C Accurate Corrosion Control, Inc.

Booth 1035

Accurate Corrosion Control, Inc. (ACCI) is an employee owned corporation specializing in corrosion control and cathodic protection. Established in 1984 in Phoenix, Arizona, the Company maintains the same high standards it was founded on 35+ years ago, providing quality corrosion control engineering, monitoring, installation and materials, on time and within budget. Address: Glendale, AZ. Web site: www.accuratecorrosion.com.

Acuren

Booth 1019

Acuren provides state-of-the-art integrity solutions to midstream and pipeline companies. Services include material verification, cathodic protection, nondestructive and destructive testing, inspection, engineering, span remediation and rope access enabled industrial services. We are a trusted partner to clients in over 18 industries. Acuren is ready to support our client's diverse needs with our vast network of 90+ locations, including over 100 in-house engineers, and more than 4,000+ employees throughout North America and the UK. Address: Webster, TX. Web site: www.acuren.com.

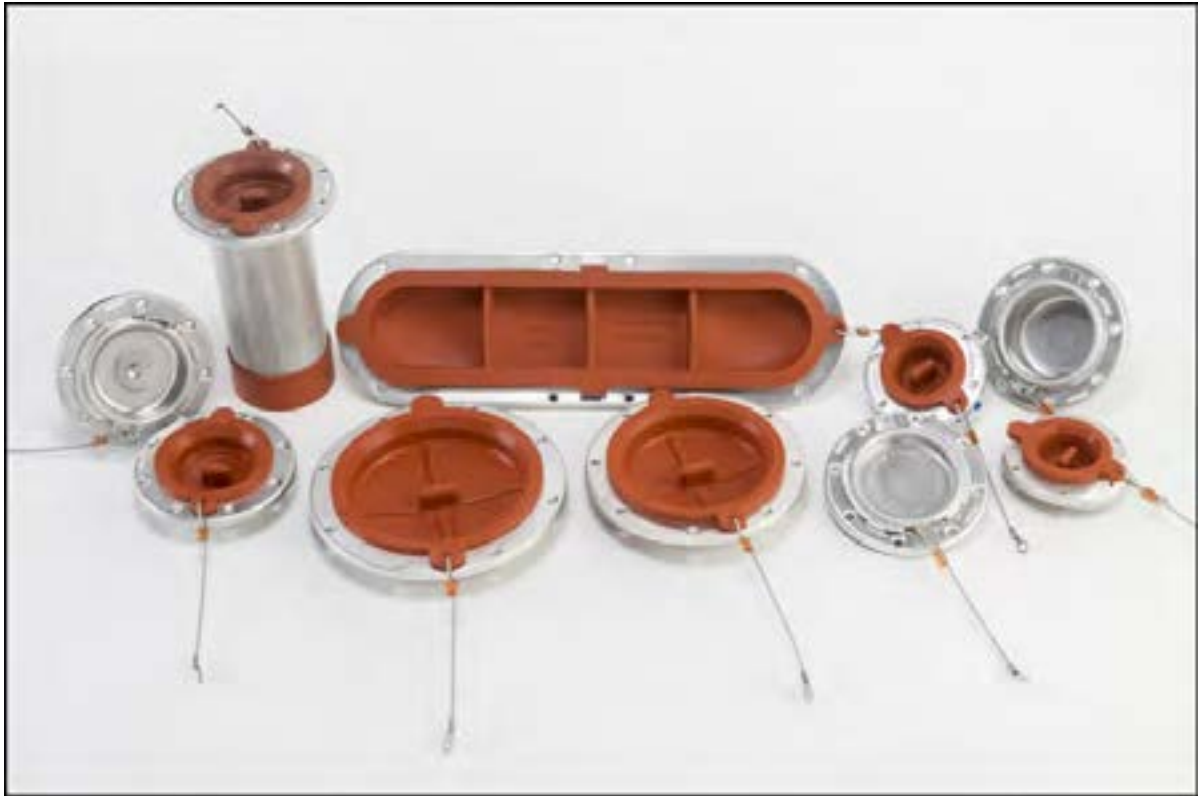
Advance Electrical

Booth 2838

Worldwide Distributor of Cathodic Protection Materials Since 1986. Leading Provider of Close Interval Survey Wire Spooled In-House. Address: Conroe, TX. Web site: www.elec-sales.com.

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Exhibitors

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Advance Products & Systems, Inc.

Booth 2009

Advance Products & Systems, LLC is a leading manufacturer and distributor of oil and gas, water and waste water, industrial and mechanical, and chemical pipeline products. APS is dedicated to manufacturing quality pipeline solutions that provide customers with confidence in knowing they have a dependable product backed by over 40 years of industry-leading excellence. Address: Lafayette, LA.

Web site: www.apsonline.com.

Advanced OEM Solutions

Booth 549

Advanced OEM Solutions (AOS) is the premier provider of customizable Phased Array, Full Matrix Capture (FMC), and Multi-Channel Conventional UT hardware. Enabling clients and partners to create custom solutions and products for NDT, we provide an "outside of the box" solution to your inspection needs. Address: West Chester, OH.

Web site: www.aos-ndt.com.

C Advanced Polymer Coatings

Booth 1517

Advanced Polymer Coatings is a world leader in developing specialty coatings - ChemLINE® and MarineLINE® - for high-performance applications across a multitude of industries including marine transportation, road and rail transportation, tank containers, chemical processing, petroleum and refining, tank storage and terminals, food and beverage, and power generation markets. Address: Avon, OH.

Web site: www.adv-polymer.com.

Advanced Polymeric, Inc.

Booth 2452

Advanced Polymeric, Inc. manufactures and distributes SMART and FUNCTIONAL coatings to the industrial / commercial market. A smart coating is an actively functional material that usually has more than one effect. It responds to external stimuli and provides predictable and repeatable results. Our goal is to solve the toughest coatings problems using state-of-the-art materials and application technologies, in situations where conventional barrier paint products won't suffice. We also strive to offer environmentally sound solutions to more conventional coating problems. Address: Salem, NH.

Web site: www.api-smartcoat.com.

Aerial Production Services, Inc.

Booth 2137

With 7 years of experience flying over 25,000 locations across 49 states, Aerial Production Services, Inc. (APS) is the leading Drone Service Provider for Oil & Gas, Telecom and Construction industries. APS provides corrosion inspection, gas leak detection, right-of-way monitoring and asset digitization services to Upstream, Midstream and Downstream companies.

Address: Crofton, MD. Web site: www.flyaps.io.

AGRU America, Inc.

Booth 2022

AGRU America offers semi-finished products including sheets, round bar stock & welding rods to suit a wide range of applications. This includes PE, PP, PVDF, ECTFE, FEP & PFA. We also offer a wide range of Concrete Protective products including liners and sheet materials as well as pipes & fittings. AGRU America is part of the worldwide AGRU Group, an Austrian family-owned business since 1948 with production facilities in Austria, the U.S., Germany & China, and distribution in over 80 countries. Address: Georgetown, SC.

Web site: www.agruamerica.com.

Air Systems International

Booth 1108

Air Systems International is the industry leader in Grade-D breathing air filtration & confined space ventilation. Air Systems manufactures Grade-D breathing air filtration, high pressure breathing air units, air cylinder carts, confined space ventilation equipment, portable area lighting, and environmental control products. As a United States manufacturer, located in Chesapeake, Virginia, we can customize almost all of our products and create new products to meet the needs of our customers. Address: Chesapeake, VA.

Web site: www.airsystems.com.

C AirTech Spray Systems

Booth 720

AirTech Spray Systems serves as a pioneer in the spray equipment and finishing industry by designing groundbreaking spray and powder coating systems to solve the needs of the client. AirTech serves a variety of markets offering single and plural component spray systems, as well as a full line of additional finishing and powder coating products.

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Exhibitors

C Corporate Members

S Sponsor

C S AkzoNobel

Booth 737

AkzoNobel's International® brand is a world leader in marine, yacht and protective coatings. A long-standing brand synonymous with innovation and collaboration, it is the preferred choice of industry leaders looking for excellence and expertise. We deliver anticorrosive and fire protection, fouling control technologies and aesthetic solutions for on and offshore. Supported by high quality customer service and in-field support around the globe, our technologically advanced International product range strives to satisfy our customers' needs now and in the future. Address: Houston, TX.
Website: www.north-america.international-pc.com.

C Allied Corrosion Industries, Inc.

Booth 1913

Allied Corrosion Industries is proud to celebrate 40+ years of helping our customers successfully navigate pipeline integrity management, AC mitigation, pipeline remediation, external corrosion direct assessment, cathodic protection system design and installation, and more. Our expert team is dedicated to delivering the best experiences and products to meet your current and future needs. Address: Marietta, GA.
Web site: www.alliedcorrosion.com.

C Allredi

Booth 2255

Manufacturer and distributor of blasting, environmental, safety, and coating equipment and supplies. Address: Pasadena, TX.
Web site: www.allredi-us.com.

Allstream Services & Rental

Booth 2633

For years, the oil and chemical industries have relied on outdated conventional surface preparation and coating methods that stalls assets and produces burdensome waste product. We knew we could do better, so we founded Allstream Services & Rental. We swapped grit for water, to deliver a more cost effective, efficient and environmentally friendly solution. Our UHP pumps and Robotic Surface prep systems cut the time and cost required by traditional methods getting assets back online faster without the excessive cleanup. Allstream Services and Rental... Discover the Power of Water. Address: Houma, LA.
Web site: www.goallstream.com.

American Carbon Co.

Booth 2112

The Cathodic Protection Division provides a turnkey solution for bare anodes including BADGERCAST high silicon cast iron anodes, BADGERCORD zinc ribbon anodes, BADGERCOMP graphite anodes, BADGERCORD zinc specialty anodes, BADGERCONNECT cast & extruded magnesium anodes, BADGERCOAT mixed metal oxide (MMO) anodes and related accessories. Address: Waukesha, WI.
Web site: www.amcarbon.com.

C S American Innovations

Booth 2021

American Innovations protects people and the environment by helping customers safely and efficiently manage the world's energy infrastructure. Our purpose-built data collection and decision-making solutions mitigate risk, drive operational efficiencies, and maintain regulatory compliance. For over 25 years, American Innovations has been a trusted partner to the professionals tasked with designing, installing, and maintaining cathodic protection systems on oil and gas pipelines to help create a sustainable and reliable energy framework. Learn more at aiworldwide.com. Address: Austin, TX.
Web site: www.aiworldwide.com.

American Soc. For Nondestructive Testing, Inc./ The (ASNT)

Booth 1051

Serving more than 22,000 members and certificate holders worldwide, ASNT is the largest technical society for NDT professionals. ASNT's mission is to advance the field of nondestructive testing. ASNT certification and standards programs, publications, conferences, education, membership, and professional development programs are the foundation for expanding awareness of advancements in NDT. Address: Columbus, OH. Web site: www.asnt.org.

AMPP Media

Booth 536

Houston, TX and Pittsburgh, PA

AMPP Media provides valuable insights from global experts on the latest research, best practices, and case studies on protective coatings and corrosion control. Editorial helps keep industry professionals abreast of the corrosion prevention technologies. Web site: www.ampp.org/ampp/resources

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Exhibitors

C Corporate Members

S Sponsor

C Atmospheric Plasma Solutions

Booth 2253

Atmospheric Plasma Solutions, Inc. (APS) has developed a surface preparation system that can remove coatings, clean surface and promote adhesion on coatings and substrates used in marine, aviation, defense, and other commercial applications. APS has perfected the delivery of plasma at atmospheric pressures using only compressed air and electricity. The company's flagship product line PlasmaBlast® reduces job costs, provides a safer work environment and is more environmentally friendly than traditional methods. The technology is patented, licensed and proprietary. Address: Cary, NC. Web site: www.apsplasma.com.

Audubon Field Solutions

Booth 2958

Audubon provides Engineering, Technical Expertise & Advanced Data Management capabilities, for pipeline and facility Regulatory Compliance, Asset Integrity & Corrosion Protection needs. Whether new asset or optimizing existing operations, AUDUBON delivers Comprehensive Integrity & Corrosion Solutions across all stages of the asset lifecycle by utilizing advanced technologies to create robust solutions, while maintaining the highest quality standards for safe, accurate, reliable, results. Address: Sand Springs, OK. Web site: www.audubon.com.

Anotec Industries

Booth 1147

Anotec Industries is recognized internationally as the leading manufacturer of high silicon cast iron anodes for impressed current systems. Anotec manufactures tubular, solid stick, and small (specialty) anode products using our perfected chill cast technology. All Anotec anodes are NSF-61 certified (safe for use in contact with potable water). Address: Langley, BC, Canada. Web site: anotec.com.

Applied Graphene Materials UK Ltd.

Booth 1416

Proud to be a leading innovator in graphene dispersion and application technology. AGM's unique manufacturing processes and industry-leading technical knowledge mean that our nanoplatelet dispersions are stable, easy to formulate and safe to incorporate into industrial paints and coatings for consistent, reliable performance enhancements such as chemical resistance, barrier and anti-corrosion properties. Address: Redcar Cleveland, UK. Web site: www.appliedgraphenematerials.com.

C Aptus

Booth 2458

Aptus offers a turnkey approach to bridge-mounted gas pipeline maintenance and rehabilitation. Our unique portfolio of specialized access equipment, field-proven corrosion protection technologies and highly trained technicians can meet the most demanding specifications in the most difficult project environments. Services include: Wax Tape Wrapping, Pipe Roller & Shield Replacement, Pipeline Decommissioning & Disposal, Hanger & Support Replacement, Regulator Station Assessment & Remediation, atmospheric Leak Survey. Address: Charlotte, NC. Web site: www.goaptus.com.

Arista Materials & Consulting

Booth 1320

Arista Materials & Consulting LLC is a leading provider of material compliance and qualification testing services for the Oil & Gas Industry. Having the best line of equipment in the market and 15+ years experts in laboratory simulation of field environments containing hydrogen sulfide and carbon dioxide, allows us to focus on providing cost beneficial services, with the best quality. Arista has grown into a first-option testing facility for many large operator companies and material producers. Address: Houston, TX. Web site: www.aristaus.com.

ARK Engineering

Booth 1046

ARK Engineering and ARK Field Services provide the following services to its worldwide clients: AC and DC interference analysis, AC & DC mitigation system installation, commissioning, and maintenance, corrosion control, cathodic protection design, installation, testing and maintenance, grounding design, and construction inspection services. We guarantee our work. Address: Braintree, MA. Web site: www.arkengineering.com.

Arkema, Inc.

Booth 457

At Arkema, we make innovative materials for a sustainable world. For fighting corrosion, our solutions include Kynar® PVDF resins and Rilsan® PA11 and Kepstan® PEKK powder coatings. Kynar® PVDF has high-temperature and chemical resistance, low permeability, and high strength. Rilsan® PA11 powder coatings have great corrosion protection, impact and abrasion resistance, flexibility, and food & water approvals. Kepstan® PEKK offers ultra-high performance for the most demanding applications. Address: King of Prussia, PA. Web site: www.arkema.com.

Exhibitors

C Armacell Energy

Booth 2236

The dedicated Energy division of Armacell provides thermal and acoustic insulation systems to deliver performance advantage, project operational and energy savings, asset integrity and safety in the harshest of environments. Address: Oldham, UK. Web site: www.armacell.com/energy.

Armach Robotics

Booth 736

Armach Robotics is revolutionizing ship husbandry using intelligent autonomous robots. Via a unique subscription-based service approach, Armach robots supervised by remote operations specialists autonomously clean and survey hulls. Proactively cleaned hulls substantially reduce operating costs, carbon emissions, and eco impacts while regular survey data provides unprecedented operational intelligence. Armach's scalable business model, driven by advanced technologies, is creating a new paradigm in ship husbandry that is proactive, cost-effective, and eco-friendly. Address: Richmond, VT. Web site: www.armach-robotics.com.

C ARS Recycling Systems

Booth 1863 & 1762

World leading solutions for all steel surface preparation, painting and coating applications; commercial or industrial services. ARS manufactures Abrasive Blasting Recycling Systems, Dust Collectors, Vacuum Recovery Units and Rapid Deployment equipment to meet the requirements of our customers. As an engineered solution provider combined with unmatched customer and technical support from startup onward, ARS is the first choice of both new and established steel abrasive blasting customers. Address: Lowellville, OH. Web site: www.arsrecycling.com.

ARTAZN

Booth 1254

ARTAZN® is North America's largest producer of zinc strip and applied zinc products. We offer a line of Cathodic Protection Products including our new LifeRibbon™: Ribbon anode engineered to be the superior AC mitigation grounding ribbon and galvanic cathodic protection anode. Address: Greeneville, TN. Web site: www.artazn.com.

C Asbury Carbons

Booth 1616

Asbury Carbons is the world's largest independent processor of synthetic and natural graphite, coke, anthracite coal, carbon black, activated carbon, and a variety of other raw materials. We have plants in USA, Canada, Mexico, and Europe. Our backfill products are designed for conventional beds, top loading, deep wells and pumping slurry. Introducing our GARMOR EDGE-FUNCTIONALIZED GRAPHENE – an advanced material designed to fight corrosion in a wide range of applications. Visit us online at www.asbury.com. Address: Asbury, NJ. Web site: www.asbury.com.

C Aspen Aerogels

Booth 1150

Aerogel blanket insulation for industrial use. Address: Northborough, MA. Web site: www.aerogel.com.

C Atlantic Design, Inc.

Booth 1353

Atlantic Design, Inc. is a family owned and operated engineering and manufacturing company in Baltimore, Maryland. We offer a wide variety of custom-designed Grit Recycling Systems, Dust Collectors, Vacuums, Classifiers, Blast Pots, Air Dryers, Negative Air Machines, and any new or replacement parts you need. Our rental fleet is comprehensive, and we can assist in the process of buying or selling used equipment. We have over 30 years of experience in the Blasting and Coating Industry, and we pride ourselves in providing innovative and efficient solutions for our customer's needs. Address: Abiingdon, MD. Web site: www.calladi.com.

C Atmospheric Corrosion Specialists

Booth 2137

ACS has been servicing the natural gas industry for over 15 years. With experience in all aspects of the gas industry from meter sets, M&R stations, cathodic protection, bridge pipeline inspections and remediation, leak detection and removal of abandoned gas piping from bridges, etc. ACS offers the latest in drone technology including leak detection, LIDAR, pipeline inspections and mapping capabilities. Our technicians are NACE CIP certified and Operator Qualified as required by our clients. Address: The Villages, FL. Web site: www.acspecialists.us.

Exhibitors

C Corporate Members

S Sponsor

C S Axess-Corrosion

Booth 2262

Axess design, manufacture and deliver internal monitoring solutions. Through our patented Janus™ range we innovate safety and build client confidence in intrusive monitoring techniques by reducing risk. We integrate process measurements and our customizable alarm systems deliver data and enable clients to monitor by exception. Integrated systems measure process corrosion, erosion, wall thickness, and more. We are a team of experts redefining industry standards through innovation. Address: The Woodlands, TX. Web site: www.axess-corrosion.com.

C Axxiom Manufacturing

Booth 1917

When Schmidt® Manufacturing began operations over 50 years ago; the founders shared a vision to introduce more productive equipment to the abrasive blasting industry that would also contribute to a smarter, safer workplace environment. With a team of dedicated, knowledgeable welders, engineers and staff, they produced a quality abrasive blasting product that has come to be trusted worldwide. With hundreds of years of combined experience and resources, the people of Axxiom are able to design and manufacture vessels that continue to be unsurpassed in our industry. Address: Fresno, TX. Web site: www.schmidtabrasiveblasting.com.

AZMET Corp.

Booth 2333

Cathodic Protection Materials and Products, all magnesium related. Address: Scottsdale, AZ. Web site: www.ametalscorp.com.

B&N Inspection

Booth 1454

B&N Inspection and Supply ("B&N"), based in Creve Coeur, Missouri, is a CVE Certified - Service Disabled Veteran Owned Small Business (SDVOSB) dedicated to consulting and inspection services in the areas of protective coatings and Certified Weld Inspections (CWI). B&N is a Society of Protective Coatings (SSPC) QP-5 Certified Inspection Firm. B&N ownership and management bring over 150 years of industry experience. Address: St. Louis, MO. Web site: www.bninspects.com.

BAC Corrosion Control Ltd.

Booth 2653

BAC Corrosion Control Ltd will be exhibiting their Easybond Pin Brazing system, be sure to call by and ask for a demonstration or advice, training and tips you may need to

operate and maintain your equipment. BAC also offer clients a comprehensive and bespoke corrosion control service including corrosion monitoring, CP system design, product supply, site services and training. Address: Telford, Shropshire, UK. Web site: www.bacgroup.com.

C S Baker Hughes

Booth 1647

Baker Hughes is an energy technology company that provides solutions for energy and industrial customers worldwide. Built on a century of experience and with operations in over 120 countries, our innovative technologies and services are taking energy forward – making it safer, cleaner and more efficient for people and the planet. Visit us at bakerhughes.com. Address: Houston, TX. Web site: www.bakerhughes.com.

Barton International

Booth 2747

BARTON garnet is harder, heavier & more durable than other blast media; it cuts faster to deliver rapid job completion; super clean surface finish & uniform profile virtually free of particle embedment. Clean surface finish & uniform profile mean better coating adhesion & longer life. BARTON garnet is a 100% natural non-ferrous inert mineral with <0.1% respirable crystalline silica & no heavy metals. It produces less dust resulting in improved visibility, less disruption to adjoining work areas & safer working conditions. US Navy MIL-A-22262B(SH); SSPC-AB 1; QPL; CARB certified. Address: Glens Falls, NY. Web site: www.barton.com.

C Bass Engineering

Booth 2015

Since 1967, Bass Engineering has provided expertly-designed corrosion control solutions, including traditional CP and technical services. Our offerings have grown to include innovative solutions like CorroLogic VpCl and our service area has expanded to include the central and eastern regions of the U.S. With in-house drilling and vacuum excavation, we protect your asset by focusing on SAFETY, customer service, and professionalism. Protecting your asset is our mission; relentless and reliable service is our strength. Web site: www.bass-eng.com.

Bayou Companies/The

Booth 1755

The Bayou Companies has been providing leading pipe coating products and services to the Oil & Gas industry for 80 years. Bayou offers a complete line of coating and insulation products, including anti-corrosion, negative buoyancy, and deepwater flow assurance coating. Address: New Iberia, LA. Web site: www.bayoucompanies.com.

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BULK

- Operate up to four nozzles simultaneously
- Independently set each blast nozzle
- Greater abrasive capacity (45, 120, 160 CF)



SKID

- Super-low water consumption from the onboard water tank
- Multiple outlet capability and the ability to wet and dry blast simultaneously



LITE

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MINI

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AVAILABLE OPTIONS:
ELECTRIC
PNEUMATIC



PRODUCTIVE
SAFE
FUNCTIONAL
COMFORTABLE
VERSATILE

- Primarily designed to reduce the physical demands associated with abrasive air blasting by directing the blast nozzle thrust to the chest pad where the core (body) will absorb most of the strength demand, resulting in significantly less exertion and operator fatigue
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- Handles and grips can be moved or adjusted to accommodate varying arm lengths
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Exhibitors

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Bedford Reinforced Plastics

Booth 1032

Corrosion is not a concern with Bedford's PROSeries FRP structural shapes and grating because they won't rust, rot or corrode, and they're resistant to chemicals, saltwater and severe weather. Simply put, Bedford FRP solutions outlast traditional building materials like steel and aluminum. Popular products include our new ReadySeries line of pre-engineered railings, walkways, platforms, ladders and pedestrian bridges. Web site: www.bedfordreinforced.com.

Berkley Springs Instruments LLC (BSI)

Booth 2363

BSI Eagle Array, OWL, Falcon, Tank Robotics - Ultrasonic Corrosion Monitoring. Address: Frostburg, MD. Web site: www.bsientry.com

C BGH Edelstahlwerke GmbH

Booth 1112

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Bio-Logic USA

Booth 2934

Bio-Logic is a global supplier of high-performance electrochemical measurement instruments for use in corrosion testing and impedance/ coatings applications. For corrosion measurement/testing we feature our: SP-200/300 system, reference grade and high-performance modular potentiostats with true floating capability, and the multi- channel VSP 300. Address: Knoxville, TN. Web site: www.bio-logic.net.

Biosan Laboratories, Inc.

Booth 2013

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C S BK Corrosion LLC

Booth 1923

BK Corrosion is your trusted industry leader of cathodic protection material supplies and manufacturing. The BK corrosion motto is "Doing What's Right". We strive to be the #1 materials supplier in the U.S. Address: Houston, TX. Web site: www.bkcorrosion.com.

C BlastOne International

Booth 1553 & 1563

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S Borin Manufacturing, Inc.

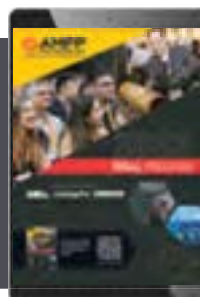
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S Brown Corrosion Services, Inc.

Booth 1533

Brown Corrosion Services, Inc. is a full service, global corrosion monitoring source including engineering, services, supply for internal corrosion monitoring (coupons/probes/lab analysis), sand and erosion monitoring, anti-fouling, cathodic protection, and corrosion consulting. Address: Houston, TX. Web site: www.browncorrosion.com.



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C Burleigh Industries

Booth 1029

Steel Shot blast Media. Address: Piedmont, SC. Web site: www.burleighindustries.com.

CAPROCO

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Caproco is an OEM of a complete range of Corrosion Monitoring Equipment which includes Access Fittings, Coupon Holders, Corrosion Probes, and Instrumentation. Caproco specializes in the custom design, fabrication and servicing of Internal Corrosion Monitoring and Control Systems. Caproco has been a world leader in Internal Corrosion Monitoring and Prevention for over 60 years. Address: Edmonton, Alberta, Canada. Web site: www.caproco.com.

C S Carboline Co.

Booth 1609

Carboline Company is a St. Louis-based coatings manufacturer with global reach. The company, founded in 1947, produces high quality performance coatings, linings and fireproofing products in more than 20 manufacturing facilities around the world. Cutting-edge Research, Development & Innovation Center is a reflection of its commitment to remaining at the forefront of the protective coatings industry. Address: St. Louis, MO. Web site: www.carboline.com.

C Cathodic Protection Co. Ltd.

Booth 1752

Founded in 1950, this year Cathodic Protection Co. Ltd (CPCL) is celebrating 70 years. CPCL was one of the first companies to provide cathodic protection equipment and engineering expertise in the oil, gas and marine construction industries. CPCL has become a world leader in the defence against corrosion and anti-fouling. Address: Grantham, Lincolnshire, UK. Web site: www.cathodic.co.uk.

CerAnode Technologies-Div of APS Materials Inc.

Booth 1439

APS Materials, Inc., a high-tech arc plasma spray coatings company, located in Dayton, Ohio, is a trusted provider of thermal spray solutions for the biomedical, aerospace, and semiconductor industries. CerAnode Technologies Intl. Div. manufactures a full line of mixed metal oxide (MMO) impressed current anodes for most every application within the cathodic protection industry. Address: Dayton, OH. Web site: www.ceranode.com.

C CESCO

Booth 1853

CESCO®/AQUAMISER® is a major supplier of abrasive blasting equipment, paint spray equipment and safety equipment, as well as the manufacturer of the Ultra High Pressure Water Blaster "Aqua Miser". For product sales, rentals, service and used equipment, CESCO is your One STOP CORROSION Shop! Address: N Charleston, SC. Web site: www.blastandpaint.com.

Champion Corrosion Products, Inc.

Booth 2533

Champion Corrosion Products, Inc. - Provider of cathodic protection materials and supplies for over 20 years! Known for our industry knowledge and superb customer service with 2 locations to better serve your C.P. needs. Address: Seguin, TX. Web site: www.championcorrosion.com.

C S Chapman Engineering

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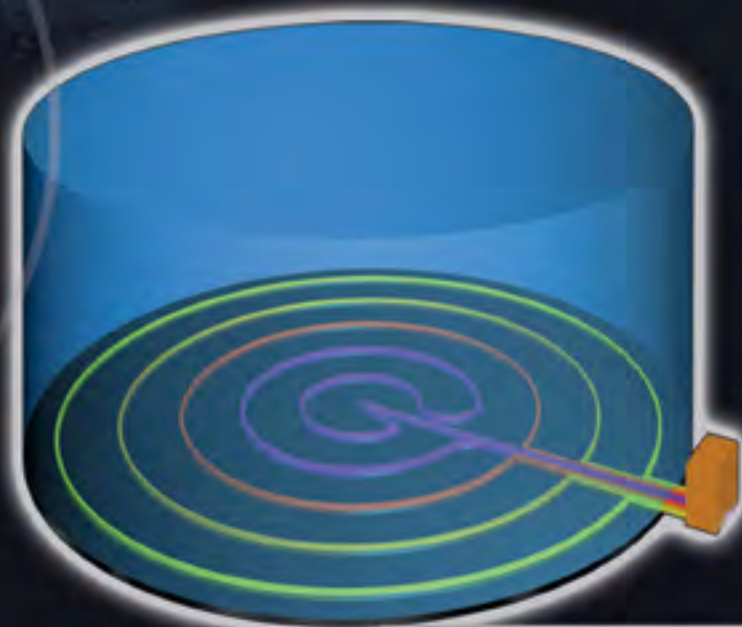
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Booth 1352

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C CHLOR*RID

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ClampOn, Inc.

Booth 2153

ClampOn offers topside and subsea nonintrusive corrosion-erosion monitoring systems that monitor and quantify changes in wall thickness over a large area of a pipeline. ClampOn is also the leading worldwide supplier of topside and subsea noninvasive ultrasonic intelligent sensors for particle/sand, pig, leak, vibration, flow temperature and corrosion- erosion monitoring. Address: Houston, TX. Web site: www.clampon.com.

Clariant Corp.

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Clariant is a leading provider of production chemical technologies and services to the global O&G industry. Our corrosion management services and experts provide the support and innovative solutions you need to protect the integrity and extend the life of your process systems. Our customized service includes the support to implement and manage the corrosion control activities, extensive in-house test capability, high-performance chemical solutions, and routine monitoring. Address: The Woodlands, TX. Web site: www.clariant.com/oil.

C Clemco Industries Corp.

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Clemco Industries is the world's largest manufacturer of air-powered abrasive blasting equipment used to clean, deburr, shot peen, remove coatings from, finish or otherwise improve a surface being blasted. It manufactures contractor and industrial machines, as well as safety and blasting accessories, needed for just about any blasting operation, ranging from equipment for self-employed contractors to multimillion-dollar facilities for the U.S. military and its allies around the globe. If you need a machine or equipment for a specific application, we have it—or can custom-engineer it for you. Address: Washington, MO. Web site: www.clemcoindustries.com.

CM BEASY Ltd.

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Coast to Coast Inspection Services

Booth 1429

Coast to Coast Inspection Services was established in 2005 and has grown to become a premier pipeline integrity services provider by persistently focusing on quality and customer service while continually improving performance from our technicians to our executive team. We provide a variety of NDT, Advanced UT, and Corrosion services and specialize in bellhole exams, ECDA, ICDA, SCCDA, ILI Validations and more. Stop by booth 1429 and visit coastnde.com. Address: Portland, OR. Web site: www.coastnde.com.

Coating Society of Houston Area, The

Booth 839

The Coating Society of the Houston Area is here to act as a conduit for exchanging ideas, experiences, and best practices for protective coating for the purpose of corrosion mitigation. To achieve this goal the Coating Society conducts regular membership meetings throughout the year, holds fundraising and networking events, and awards academic scholarships. Being a member and involved in the Coating Society is a great way to advance your career, make new business connections, and discover the latest development in protective coatings. Web site: www.coatingsocietyofhouston.org



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C Confined Space Robotics, Inc.

Booth 2358

Headquartered in Nisku, Alberta, Canada, Confined Space Robotics sells, leases, rents and trains on robotic solutions, all with the intent to perform project work with zero injuries. We are in the business of robotic solutions; we offer a technology that changes the industry approach to abrasive blasting and coating projects. We believe we are in the safety business as well and that it's time for the combined space industry to change through the application of technology. Address: Nisku, AB, Canada. Web site: www.csrrobotics.com.

Corrodere Academy

Booth 3446

The Corrodere Academy was established with the aim of raising standards within the coating and corrosion control industry through comprehensive training. Corrodere Academy now offer a broad range of training delivered online and, in the classroom, this includes its highly respected Train the painter program. All training is written by industry experts and lead to formal qualifications allowing students to progress within their chosen career. Address: Farnham, UK. Web site: www.corrodere.com.

Corrolytics

Booth 3246

Corrolytics (Founded 2020) is a technology startup company developing innovative solutions to detect, monitor, and mitigate microbial corrosion inside oil and gas pipelines. The team is developing a smart electrochemical test kit that can be used on-site to detect and monitor MIC. In addition, Corrolytics provides a full suite of lab services to help diagnose and mitigate MIC. Address: Cleveland, OH. Web site: www.corrolytics.com.

C Corrosion Materials

Booth 2339

Corrosion Materials is a nickel alloy and titanium distributor with locations in Baker, LA, Houston, TX, Bolingbrook, IL, Auburn, MA, and Shanghai, China. We offer a full line of product forms, in-house processing, machining, welding and metallurgical assistance. We have served the process industries for almost 60 years and are ISO 9001:2015 certified. Address: Baker, LA. Web site: www.corrosionmaterials.com.

C Corrosion Service Company Limited

Booth 2847

Corrosion Service was founded in 1950 as one of the first North American firms to specialize in cathodic protection. We have been at the forefront of the science of corrosion prevention since day one, behind the scenes for decades responding to our customers' needs, problem-solving and providing expert corrosion service, enabling them to operate safely and efficiently. Address: Markham, ON, Canada. Web site: www.corrosionservice.com.

C S Corrpro Companies, Inc.

Booth 1637

Corrpro provides people-powered corrosion protection for critical infrastructure worldwide. Our dedicated corrosion control professionals offer innovative, cost-effective, and long-term solutions for preserving assets through corrosion control. Corrpro services allow clients to stop the corrosion of metallic structures and prevent or substantially delay the vastly higher expenditures required to replace deteriorated and unsafe structures. Address: Houston, TX. Web site: corrpro.com.

Cortec Corp.

Booth 1909

As the global leader in innovative, environmentally responsible VpCI® and MCI® corrosion control technologies, Cortec® delivers a wide range of world-class, cost-effective, user-friendly integrated solutions for corrosion problems in packaging, metalworking, construction, electronics, oil and gas, and many other industries across the globe. Address: Saint Paul, MN. Web site: www.cortecvci.com.

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- 1pm // Introduction to Decouplers
- 3pm // PCRX: Are Your Off-Readings Accurate?

WEDNESDAY

- 1pm // UltraBox Build-A-Box Challenge (game)
- 3pm // Common Decoupler Applications

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Cortest, Inc. (Willoughby Ohio), is the leading manufacturer of laboratory equipment for corrosion testing. Throughout its 44-year history, Cortest has produced innovative test systems that are safe, reliable, and of the highest quality, these include autoclaves, mechanical load frames, flow loops, and DCPD systems for high-temperature/high pressure studies. In addition to its standard test systems, they also offer custom test systems for the H2, oil, gas, and nuclear industries. Address: Willoughby, OH. Web site: www.cortest.com.

S CRW

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Curran International, Inc.

A global leader in the development of anti-foul low surface energy heat exchanger tube ID coatings and surface treatments; providing thin film applications to eliminate routine maintenance, extend duty, and contribute to energy savings. Curran International applies foul release and corrosion resistant coatings; dry abrasive tube ID prep for NDE; and turnkey installation of full length alloy tube liners and ferrules. Curran provides in-situ services to refinery, petrochemical and power generation industries. Field service shops located in Houston, Edmonton, Rotterdam, Singapore. Address: Dickinson, TX 77539. Web site: curranintl.com.

D.E. Stearns Co./The

Booth 1927

The D. E. Stearns Co., in Shreveport, Louisiana, is the original manufacturer of Holiday Detectors and has continued to manufacture the finest quality Holiday Detectors & related equipment in use throughout the world. For further details, see us at www.destearns.com. Address: Shreveport, LA. Web site: www.destearns.com.

S Dairyland Electrical Industries

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Dairyland is the world's leading manufacturer of solid-state decoupling products used to provide safety protection for equipment and personnel while optimizing CP system performance. Our proven product designs are backed by third party certification to standards around the world ensuring we deliver products that perform. Address: Stoughton, WI. Web site: www.dairyland.com.

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We manufacture a complete line of portable ultrasonic thickness gauges, flaw detectors, bolt monitors, and transducers. Our thickness gauge line includes both dual and single element gauges with a variety of models and specific features, including our new coating measurement gauges. The flaw detectors are full-featured gauges designed to meet a variety of industry requirements. Address: Scotts Valley, CA. Web site: www.dakotaultrasonics.com.

Dale Fastener Supply

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Dale Fastener Supply has been manufacturing and fabricating U-bolts, Coated U-bolts, Anchor bolts, J-bolts, Stud Bolts, and supplying fasteners since 1959. Our success has been possible through excellent service and a commitment to quality, unmatched in the industry. Address: Houston, TX. Web site: www.dalecompany.com.

C Dampney Co., Inc.

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C DeFelsko Corp.

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DeFelsko, a leading U.S. manufacturer of inspection instruments, proudly manufactures PosiTector and PosiTest brand of instruments including the PosiTector series of interchangeable probes for measuring coating thickness, surface profile, environmental conditions, salt contamination, concrete moisture, hardness and wall thickness. Address: Ogdensburg, NY. Web site: www.defelsko.com.

C Dehumidification Technologies, L.P.

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DH-Tech is a portable climate control company that focuses on humidity and temperature control. We provide services/equipment for blasting and coating of tanks, confined spaces in the marine, petro-chem, power, and municipal sectors. We have the largest variety of fleet including Refrigerant and Desiccant-Style Dehumidifiers (200 to 20,000 CFM) to create any environment for our clients. Address: Houston, TX. Web site: www.rentdh.com.

C S Denso North America

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Desco manufactures a complete line of surface preparation equipment, while specializing in equipment used for applications requiring dust-free coating removal. All Desco tools are designed to be easy to use, withstand daily use and abuse, and to provide maximum performance. Structural Steel Contractors, utility plants, the US Navy and the Air Force are just a few of the industries that have counted on Desco for their surface preparation needs. Address: Rancho Santa Margarita, CA. Web site: www.descomfg.com.

Detroit Tarp, Inc.

Booth 1426

Detroit Tarp Inc. is a leading manufacturer of tarps, covers, and custom enclosures for 52 years. It will display materials used nationwide for containing lead from abatement projects, overspray, weather enclosures for construction projects and tarps for all needs. Address: Romulus, MI, . Web site: www.detroittarp.com.

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S DNV

Booth 2008

As the technical advisor to the oil and gas industry, we bring a broader view to complex business and technology risks in global and local markets. Our staff of materials scientists, engineers, and API, ASNT and NACE-certified specialists is backed by the foremost materials and corrosion technology laboratory in North America. Address: Katy, TX. Web site: www.dnvgl.com.

Drinkwater Products

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C S Eagle Industries

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ecoFINISH, LLC

Booth 909

Polymer Thermal Spray coating solutions for concrete, metal, and fiberglass. Liquid resin coatings including epoxy, urethane, and Polyaspartic base products. Address: Warminster, PA. Web site: www.ecofinishcoatings.com.

ECS - The Electrochemical Society

Booth 1512

ECS, a nonprofit professional society established in 1902, advances theory and practice at the forefront of electrochemistry, solid state science, technology, and allied subjects. Our 8,000+ members in 85+ countries solve major global challenges. ECS hosts meetings, publishes research, fosters education, and collaborates with other organizations. Address: Pennington, NJ. Web site: www.electrochem.org.

Eddyfi Technologies

Booth 2054

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Elcometer has been a world leader in the design, manufacture, and supply of inspection equipment to the surface preparation, coatings, and concrete. By providing industry leading, quality products; supported by best-in-class customer service at a competitive price. In 2018 Elcometer launched a range of blast equipment. The range is the culmination of over 35 years of design, manufacture, and service of abrasive blast machines. Elcometer products are designed to meet the needs of the coatings and blasting industry. Address: Warren, MI. Web site: www.elcometerusa.com.

Elecsys International

Booth 2127

Elecsys is a manufacturer/supplier of remote monitoring equipment and services for cathodic protection and corrosion applications. Our Watchdog line of remote monitors set the industry standard for features and reliability. The Elecsys Connect web interface provides users with instant access to critical data as well as powerful reporting and data analysis tools. Elecsys, connecting industry for over 20 years! Address: Olathe, KS. Web site: www.elecsyscorp.com.

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Exhibitors

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Booth 841

Electralloy is a custom melt producer of stainless, duplex, nickel, copper-nickel, low expansion, and Nitronic alloys. Product forms: ingot, billet, round bar, block, master alloy ingot, G.O. Carlson Plate, and NTRC weld wire. Providing consistent high-quality products for demanding markets such as aerospace, power generation, forging, nuclear, marine, chemical, petrochemical, corrosion, and high temperature environments. For critical requirements, When the Metal Makes the Difference, call Electralloy and G.O. Carlson Plate. Address: Oil City, PA. Web site: www.electralloy.com.

C Element Materials Technology

Booth 2839

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C Elsyca

Booth 2554

Elsyca specializes in developing comprehensive digital twin solutions for oil & gas, energy utilities, marine and offshore industry. Our accurate and industry proven numerical modeling solutions are combined with engineering expertise to support integrity management, corrosion assessments, cathodic protection & AC mitigation designs programs. Our 3D modeling approach delivers unprecedented insights to support the adoption of cost effective maintenance programs and gain competitiveness by extending the lifecycle of entire assets. Visit us at booth 2554 or www.elsyca.com. Address: Wijnmaal, Belgium. Web site: www.elsyca.com.

Emerson

Booth 2539

Emerson is the market leader in the configuration and supply of corrosion and erosion monitoring and management solutions. Our extensive portfolio of measurement technologies, infrastructure, and software combines the industry-renowned brands like Permasense, Roxar, WirelessHART, DeltaV controls, Plantweb, AMS and Fieldwatch software into integrated solutions to help our customers achieve top quartile business performance. Address: Houston, TX. Web site: www.emerson.com.

C EN Engineering

Booth 946

EN Engineering (EN) provides engineering and consulting services to oil & gas, electric utilities, and industrial customers. EN has expertise in corrosion control design, AC threat assessment and mitigation design, DC stray current analysis and mitigation design, CP field surveys, EMF studies, Integrity management, Internal corrosion, Specification and procedures updates, Project management, Welding procedure development, Metallurgical consulting and failure analyses, GIS analyses and management, and Database management – to list a few. Web site: www.enengineering.com.

Energy Economics, Inc.

Booth 1539

We make buying corrosion protection material easy. Put our distributor network to work for you. Our full line of Cathodic Protection materials means less time tracking deliveries for: anodes, rectifiers, test stations, coupons, backfill, and more. We custom manufacture magnesium anodes and offer a variety of linear, canister, and tubular anodes. Email your material list to: sales@eei.com Our team sends you a custom quote for your project. Address: Dodge Center, MN. Web site: www.eei.com.

EnTech Industries

Booth 1159

EnTech Industries founded in 1993 manufactures the Cyclone line of industrial dust collectors ranging from 2,000 cfm through 60,000 cfm. We produce trailer and skid mounted, diesel, electric and bi powered collectors. EnTech also builds custom designed dust collectors for unique application requirements. EnTech's primary customer base is the recoating industry, we also provide solutions for a wide variety of industries such as wood products, welding and bulk transfer. We strive to meet the changing market needs and provide training and proper utilization of the dust collectors. Address: East Grand Forks, MN. Web site: www.entechindustries.com.

Entegra LLP

Booth 1414

ENTEGRAs unique CPCM technology provides a pigging solution for assessing the effectiveness of a pipeline's cathodic protection (CP) system. The tool accurately locates, identifies, measures, and reports all CP current sources, drains, interferences, and gaps - from inside the pipe. ENTEGRA's in-line CPCM provides the most comprehensive, high-quality, high resolution CP data available. Address: Indianapolis, IN. Web site: www.entegrasolutions.com.



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ErgonArmor

Booth 2162

ErgonArmor protects steel, concrete and other substrates from corrosion, abrasion, chemical attack and moisture intrusion. We offer protective coatings, linings, polymer concretes and machinery grouts, chemical resistant brick and tile systems and water proofing membranes. Located in the United States, ErgonArmor sells in North America and other lobal locations. Address: Flowood, MS. Web site: www.ergonarmor.com.

C Ervin Industries, Inc.

Booth 833

Address: Ann Arbor, MI. Web site: www.ervinindustries.com.

Evonik Industries

Booth 3047

Evonik Industries is one of the world leaders in specialty chemicals. The Resource Efficiency segment supplies high performance materials for environmentally friendly and energy-efficient systems. Our High Performance Polymers business line produces polymers suitable for many applications in the oil and gas sector which provide protection against corrosion or chemicals, increase the safety of energy transport, or enhance the efficiency of energy generation. Gas Pipes and fittings produced from VESTAMID PA12 are now approved by PHMSA for gas distribution services up to 250 psig. Address: Parsippany, NJ. Web site: www.vestamid.com/en/markets/energy.

Express Chem

Booth 1154

Express Chem Specializes in water based surface preparation chemicals that are eco-friendly and biodegradable. We offer both a surface passivator that prevents flash rust and also removes light organic soils which greatly improves coating adhesion, as well as an acidic water based inorganic salt remover for projects that require chloride tests prior to coating application. Address: Kirkwood, MO. Web site: www.expressblastproducts.com.

Expro Midstream Services, LLC

Booth 1311

Expro uses our specialized environmental services to reduce the amount of hydrocarbon emitted during routine maintenance of Midstream assets such as pipelines, storage caverns and production facilities. We assist with cleaning pipelines while keeping them in service with full hydrocarbon containment, removing contaminants at operating pressure and high rates of flow. Our portable, quick rig up and high-volume systems reduce costs for our clients all while protecting the environment. Address: Houston, TX. Web site: www.exprogroup.com.

E-Z Line Pipe Support Company, LLC

Booth 2155

E-Z Line Pipe Support Company was established in 1952 with the development of the E-Z Line Adjustable Pipe Support. Fueled by the growth of the Houston petrochemical industry in the late 60's and early 70's, E-Z Line expanded in to the field of structural steel fabrication. In 1984, E-Z Line expanded into natural gas transmission, supplying E-Z Line products such as adjustable supports, CSB (pipe clamp, steel shim block and base plate assemblies), structural steel pipe supports and platforms for natural gas compressor stations facilities. Address: Manvel, TX. Web site: www.ezline.com.

Farmers Copper Ltd.

Booth 1349

Metals distribution, cutting, bending, punching Address: Texas City, TX. Web site: www.farmerscopper.com.

C Farwest Corrosion Control Co.

Booth 2047

Farwest Corrosion Control Company is an industry pioneer and leader in cathodic protection and corrosion control products, solutions and services. With nine U.S. locations, we offer a vast array of product inventory and C.P. services to mitigate complex corrosion issues. Let us help you find the right solution for your corrosion issue or future infrastructure project. Address: Downey, CA. Web site: www.farwestcorrosion.com.

Flexitallic

Booth 736

Global Leader of Industrial Gaskets and Seals. Innovative products and materials targeting problematic sealing challenges. We now have an innovative Isolation Gasket that seals and stops corrosion like no other. A real revolution in isolation gaskets and kits. Address: Houston, TX. Web site: www.flexitallic.com.

Exhibitors

Forze Electronics - 4Z Elektronik Ltd.

Booth 2652

Forze (4Z) Electronics was established for the design and production of various products in Cathodic Protection sector. Forze Electronics carries out the design and production activities of all its products within its own facilities. Forze Electronics produces Oil or Air Cooled Cathodic Protection Rectifiers, Solid State Mitigation Cells for safe and Ex zones up to 30kA , Dataloggers and CIPS & DCVG loggers , Smart Mitigation Cells for DC mitigation, Smart Test Stations for battery powered remote monitoring and many more.
Address: Ankara, Turkey.
Web site: www.4zelektronik.com

FÖS Solutions

Booth 1964

The "messenger " is an advanced form of communication from the sandblasters to the operator. No more confusion on what the blaster needs, from (more sand, less sand, choke, air only, help , and emergency). Our patented 6 button dead-man is the answer to all problems. Just a push of a button away, this is a Multi-patented Game Changer in the sandblasting industry.
Address: Campbell, OH. Web site: www.fosengineering.com.

French Creek Software, Inc.

Booth 2352

French Creek Software began developing and marketing software tools for water treatment professionals in 1989, including the industry standard WaterCycle(R) series for cooling water, DownHole SAT(R) for oil field brines, MineSAT(TM) for process and waste waters, WatSIM(TM) for municipal water treatment (including lead and copper modeling); and hydROdose(R) for membrane systems. Many of our customers use "branded" versions customized with their corporate identity and in some cases, custom algorithms. Address: Phoenixville, PA. Web site: www.frenchcreeksoftware.com.

FURS Composites

Booth 2331

FURS Composite Products for Repair & Protection of pipelines and infrastructures are designed for the highest level of performance and protection capabilities. The products are fully engineered and manufactured at our facility in the Southeastern US. With over 90 years of continuous product development and manufacturing experience we are proud to offer products that reflect this commitment to quality. The process of weaving the fiberglass fabric all the way through impregnation with the desired urethane is done in-house, start to finish.
Address: Charlotte,NC. Web site: www.furscomposites.com.

Galvotec Alloys, Inc.

Booth 2239

Galvotec Alloys As a recognized leader in The Cathodic Protection Industry, Galvotec Manufactures the Highest Quality Aluminum, Zinc and Magnesium Anodes in the market. Established in 1984, we have 38 years of tried-and-true experience and thousands of satisfied customers. Galvotec's ISO-9001:2015 certified foundry, ISO-17025:2005 accredited laboratory, and our highly experienced Professional Staff make us the most qualified Galvanic anode manufacturer in the world. We are the largest and most competitive anode supplier to the oil and gas industry. Address: Harvey, LA.
Web site: www.galvotec.com.

Galvotec Corrosion Services

Booth 2239

Galvotec Corrosion Services, LLC offers a range of services for the Cathodic Protection Industry including engineering, design, fabrication, evaluation, monitoring, and pin brazing sales. We fabricate retrofit galvanic anode assemblies for the life extension of existing offshore structures, maintain a large inventory of anodes for water handling vessels and storage tanks, and are the exclusive distributor of the impressed current Lockheed-Galvotec Vertical Tension Anode system.
Address: Harvey, LA. Web site: galvoteccorrosion.com.

Gamry Instruments

Booth 1514

Gamry Instruments designs, manufactures, and sells electrochemical instrumentation and accessories, designed to fit your needs and budget. From basic DC corrosion measurements to electrochemical impedance, noise, and frequency modulation, Gamry is the leader of electrochemical corrosion measurement instrumentation. We have a variety of single and multichannel potentiostats, QCMs, multiplexer, RCE setups, and cells/ accessories. Everything you need for material evaluation to inhibitor selection. Address: Warminster, PA.
Web site: www.gamry.com.

Gecko Robotics

Booth 2254

Gecko Robotics pioneers robotic technology and software to enhance infrastructure reliability through comprehensive non-destructive testing (NDT) inspections. Using robots keeps workers away from hazardous conditions and provides better data coverage than traditional methods which allows the owner to better diagnose equipment damage, perform preventative maintenance, and predict future life. This results in lower costs, more up-time, and, most importantly, less safety risk. Address: Pittsburgh, PA. Web site: www.geckorobotics.com.

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Girard Industries

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Girard Industries began manufacturing the foam polly-pig in 1968 and since then we have expanded our manufactured products to encompass the complete line of pipeline cleaning pigs. Our Turbo Series® are solid cast polyurethane cup and disc pigs with available brush options. We have the largest size ranges of Spheres with up to 5 different sphere sizes per nominal pipe size. Our Steel Mandrel pigs are available in a variety of configurations with options including brushes, magnets, gauging plates and more. Address: Houston, TX. Web site: www.girardindustries.com.

General Corrosion Corp.

Booth 2753

General Corrosion Corporation has been your industry leader in cathodic protection services for over 25 years. We are dedicated to providing only the highest quality Cathodic Protection (design, installation & maintenance), AC Mitigation and Vacuum Excavation to the Midwest and surrounding areas. We provide superior corrosion control services safely, ethically, and economically. Address: Minneapolis, MN. Web site: www.generalcorrosioncorp.com.

C S GMA Garnet (USA) Corp.

Booth 1421

GMA Garnet Group is the leading producer of industrial garnet for the blast-cleaning and surface preparation industry, with advanced mining and processing operations established within Western Australia, Montana USA and strategically located distribution warehouses worldwide. The group has also pioneered the operation of large-scale garnet recycling facilities in Italy, Saudi Arabia, United Arab Emirates, and USA, offering an environmentally friendly solution to the disposal of used garnet. Address: The Woodlands, TX. Web site: www.gmagarnet.com.

S GPT

Booth 1336

GPT is the world's leading manufacturer of critical service flange systems, electrical flange isolation kits (for cathodic protection and galvanic corrosion prevention) and isolation joints for the oil and gas production, processing, gas transmission, pipeline, power generation, water and utility industries. GPT products are approved and in use by virtually all of the major international oil and gas operators, engineering contractors and gas transmission companies. GPT is an ISO 9001:2008 manufacturing company. Address: Wheat Ridge, CO. Web site: www.gptindustries.com.

C Graco, Inc.

Booth 939

Graco is a world leader in fluid spraying technology. Our extensive line of sprayers, equipment and accessories delivers superior results under the most demanding conditions. No matter the job, Graco equipment delivers unsurpassed performance and durability when applying protective coatings. Address: Minneapolis, MN. Web site: www.graco.com.

Grandis Titanium

Booth 1410

GRANDIS TITANIUM is a major worldwide supplier of titanium products, such as Bars & Billets, Sheet, Plate, Wire, Sponge, Ingots, Ferro-Titanium, and scrap. In business since 1994, our offices are located in the USA (LA, Oregon, Ohio) and globally (China, Russia, South Korea, EU). We operate fully stocking warehouses in the USA and in the Netherlands, maintaining inventory of more than one thousand tons of Titanium Products to assure immediate shipment to our customers. Our current stock list can be found at www.ti4sale.com. Address: Rancho Santa Margarita, CA. Web site: www.grandis.com.

Green Diamond Performance Materials

Booth 1759

Green Diamond Performance Materials delivers the most cost-effective, best profiling, consistent and environmentally friendly Abrasive Blast Media in the industry. Green Diamond abrasives are single sourced from our +14 million-ton magnesium orthosilicate reserve located in Riddle, Oregon. We combine hardness, angularity and precision particle gradation to deliver the cost saving performance, cleanliness and consistency of our world-class products. Address: Riddle, OR. Web site: www.greendiamondpdm.com.

C S Greenman-Pedersen, Inc. (GPI)

Booth 2053

Greenman-Pedersen, Inc. (GPI) is a leading engineering consulting firm that specializes in the innovative design and construction of transportation infrastructure and building projects. Our coatings experts consist of nearly 100 coatings professionals and inspectors, spread throughout our 54 office locations and our full-service coatings laboratory, allowing us to provide local staffing for most projects. Our coatings experts have earned a reputation for excellence in the coatings industry, and are proudly one of only thirteen SSPC Quality Program 5 (QP5) Certified Firms. Address: Babylon, NY. Web site: www.gpinet.com.

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C Grillo

Booth 2739

Grillo-Werke AG is the world's largest producer of zinc and zinc alloy wire for corrosion protection. As the global leader with six decades of experience, our zinc and zinc aluminum wire provide optimum corrosion protection. Grillo wires are used in various global industries ensuring active and sustainable corrosion protection. Some of these Metallizing applications include bridges, wind towers, cast iron pipes, heat exchangers and capacitors applied through either Arc or Flame Thermal Spraying. Address: Woburn, MA. Web site: www.grillo.de.

Harsco Environmental

Booth 1955

Harsco Environmental is a global organization providing economic solutions fundamental to worldwide economic growth. The company set the standards for environmentally sustainable solutions for by-products of steel and energy production. The Reed Minerals division is a pioneer in mineral processing for environmentally beneficial uses and is known throughout the industry for its high quality, high performance BLACK BEAUTY® abrasives, roofing granules and aggregates products. Address: Camp Hill, PA. Web site: www.blackbeautyabrasives.com.

HCL Fasteners

Booth 1428

HCL Jetty Pile Corrosion Protection Solutions: Splash Zone, Tidal and Submerged Pile Protection – HCL Pile Wrap System (PWS) for Splash & Tidal Zones - Petrolatum Tape, HDPE Outer Armour & Smart Band High Strength Clamping System - HCL ICCP Installation Solution - Full Non-Metallic Installation solution for ICCP Systems - PU Mounting saddles for the Anodes & Electrodes, Smart Band Polymer Strapping system for Cable management and Saddle mounting. Address: Bath, UK. Web site: www.hclfasteners.com

C Hempel

Booth 1433

Hempel's paints and coatings protect and beautify buildings, infrastructure and other assets, and play an essential role in our customers' businesses. They help minimize maintenance costs, improve aesthetics and increase energy efficiency. At Hempel, our purpose is to shape a brighter future with sustainable coating solutions. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world. Address: Conroe, TX. Web site: www.hempel.us.

S Highridge Corrosion Services

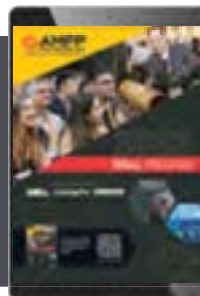
Booth 2562

Highridge specializes in a variety of corrosion services including some of the following, Corrosion Technicians, ECDA Programs, DCVG, ACVG, CIS, Inspection for Cathodic Protection Projects, AC Mitigation/Gradient Mat Installation, Interference Testing – AC and DC, Vac Truck CP Installations, and Coating Inspection/Consulting. Highridge strives to be one of the premier contactors in the industry. Address: Prague, OK. Web site: www.highridgecorrosion.com.

C Hippwrap Containment

Booth 1031

Hippwrap specializes in the distribution of Fire-Retardant industrial shrink wrap film, shrink wrap installation accessories and Fire-retardant temporary deck coverings since 1986. Our 35+ years of experience and knowledge in industrial environmental containment, weather protection and abatement positions us to help our customers with great products and experience to achieve positive outcomes and profitability for our customers. If our customers prefer not to self-perform jobs, Hippwrap will come to your jobsite and install the Hippwrap System for protection and containment. Address: San Diego, CA. Web site: www.hippwrap.com.



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C S HoldTight Solutions, Inc.

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Honeywell Forge Corrosion Advisor

Booth 2039

Honeywell Forge Corrosion Advisor is the industry-leading corrosion prediction and monitoring software/system, including Predict®-RT, the industry's first real-time corrosion software sensor framework, as well as many other corrosion prediction and materials selection solutions for refinery and oil/gas industries. Honeywell's advanced materials evaluation and research capabilities are enabled by a state-of-the-art corrosion laboratory and a comprehensive portfolio of consulting services. Address: Houston, TX. Web site: www.honeywellprocess.com/corrosion.

C IBIX North America, Surface Tech. LLC

Booth 1618

IBIX Surface Technologies LLC has been actively supporting the Blasting and Coating Industry with Mobile on-site portable equipment for over 10 Years throughout North America. Our systems are Engineered to handle any surface, with using multiple Materials. Training and certification is an integral part of our Technical sales force. Located in Tampa Bay Florida allows for year around service and supply as well export product with ease. Address: Largo, FL. Web site: www.ibixusa.com.

Imenco Corrosion Technology AS

Booth 2734

Our core competence includes providing wide range of ROV installable cathodic protection solutions and products for the Ocean Industries, mainly for Offshore Oil & Gas and Wind energy. We have developed standardized solutions and working methods for a wide range of retrofit situations. Our scope of supply can range from complete EPC projects to delivery of single components. Address: Aksdal, Norway / Broussard LA. Web site: www.imenco.no/imenco-corrosion-technology.

Inductosense Ltd.

Booth 3247

Inductosense is a UK-based company that designs and manufactures ultrasonic sensor technologies for internal corrosion and erosion monitoring. The Inductosense WAND technology is a patented wall thickness monitoring system that enables accurate, repeatable measurements at a fraction of the cost of alternative methods. The team of ultrasonic experts support major operators across the world to streamline their operations and achieve their digitalisation objectives with WAND solutions. Address: Bristol, UK. Web site: www.inductosense.com.

C InduMar Products, Inc.

Booth 1420

InduMar has provided innovative solutions for pipe leaks, corrosion repair, & pipe rehabilitation for over 35 years. Our products include the GAS RISER RESCUE™, STOP IT® PIPE REPAIR SYSTEM, STOP IT HP™, STOP IT® PIPE REPAIR CLAMP, FIX STIX™, EPOXY, FUSION TAPE™, STOPITPSX™, BORESHIELD™, FLATPATCH™, SPILLCORRAL™ and a complete line of Emergency Leak Repair Kits. For Corrosion we offer VISCOTAQ and STOP IT® Pipe Repair System. Contact us at +713-977-4100 in Houston, TX. Web site: www.indumar.com.

C Induron Protective Coatings

Booth 935

Induron Protective Coatings is a 75 year old, privately held industrial coatings manufacturer. Induron produces coatings for 3 primary markets: Water/Wastewater, Pipe Linings and Electrical Transmission and Distribution Infrastructure. Address: Birmingham, AL. Web site: www.induron.com.

Industrial Vacuum Equipment Corp

Booth 1455 & 1463

Industrial Vacuum Equipment Corp. manufactures the Hurricane line of industrial vacuum loaders and FiltAire dust collectors. We sell and rent vacuums and dust collectors from locations throughout North America. Setting the Quality Standard for over 25 Years! Address: Ixonia, WI. Web site: www.industrialvacuum.com.

Exhibitors

Innovative Analytical Solutions (IAS)

Booth 1417

Established in 2014.

Innovative Analytical Solutions provides laboratory and field instruments for metal analysis. I.A.S. LLC represents Belec Spectrometer from Germany and Frontics America from South Korea. The Belec systems are Optical Emission Spectrometers capable of complete elemental analysis for certification and verification of analytical chemistry and alloy identification. The Frontics instruments are Micro Indentation Testers that can non-destructively measure Tensile, Yield, Hardness and Fracture Toughness. Address: Bremen, AL.
Web site: www.steelalyzer.com.

C Innovative Surface Prep

Booth 830

From equipment rentals to turnkey operations, Innovative Surface Prep (ISP) provides surface preparation solutions through a fleet of unparallel robotic and handheld UHP water blasting equipment. ISP combines this great technology along with their proprietary process to nearly eliminate the environmental impact from water blasting operations. Backed with decades of coating and corrosion experience, ISP offers clients absolute results coupled with an unmatched customer experience. Phone Number: 985-876-4457. Address: Gray, LA.
Website: www.isprllc.com.

Integrated Global Services

Booth 962

Integrated Global Services (IGS) provides surface protection solutions for mission-critical equipment. IGS' integrated service offering of HVTS alloy cladding helps power, oil and gas, paper, and other critical processing companies operate their equipment reliably and safely. A world leader in onsite thermal spray with over 3,000 successful projects completed, IGS offers proprietary materials and application processes and experienced project management for dependable assistance in planned or emergency shutdowns. Address: Richmond, VA.
Web site: www.integratedglobal.com.

Integrity Assessment Group

Booth 2634

Integrity Assessment Group delivers technical and integrity construction services for the natural gas, renewables, and power generation industries. We provide collective manpower and a comprehensive scope of services—with one point of contact—delivering results safely, efficiently, and effectively. Address: Houston, TX. Web site: www.int-grp.com.

S Integrity Solutions Field Services, Inc.

Booth 1126

Integrity Solutions Field Services is a full service cathodic protection company, specializing in CIS and DCVG surveys, with vast experience in the ECDA process, offering turnkey services for all 4 phases. We offer corrosion control services including construction services, AC mitigation, design and modeling, atmospheric inspection and rehab, and a myriad of technician troubleshooting. We identify and summarize risk assessment factors for solar structures. Our custom software provides data in any format and our deliverables are customizable and one of the best in the industry. Address: Alma, MI.
Web site: www.isfieldservices.com.

C S International Union of Painters and Allied Trades (IUPAT - Finishing Trade)

Booth 1227

The International Union of Painters and Allied Trades is committed to providing our industry partners a highly trained and certified workforce to mitigate the devastating impact of corrosion on our infrastructure and facilities. A proud partner of AMPP, and a leader in meeting those industry certifications. Learn more at www.IUPATindustrial.com - www.iFTI.edu - www.IUPAT.org. Address: Hanover, MD.
Web site: www.iupatindustrial.com. Address: Hanover, MD.
Web site: www.iupatindustrial.com.

C Interprovincial Corrosion Control Co., Ltd.

Booth 2646

ICCC provides engineering services & the supply/manufacture of Corrosion Control/Cathodic Protection Materials throughout North America. ICCC is a member of NACE with experienced Corrosion Engineers specializing in the Cathodic Protection of buried or immersed metallic structures. For 65+ years, ICCC has manufactured the Rustrol® Product Line for world-wide distribution. Address: Burlington, ON, Canada.
Web site: www.rustrol.com.

ION Science, Inc.

Booth 740

ION Science is the largest manufacturer of photoionization detection (PID) sensors with our technology trusted by major gas detection manufacturers around the globe. In addition to sensors, ION Science manufactures a wide range of leading handheld, personal and fixed PID detection instruments for the fast, accurate detection of volatile organic compounds (VOCs) and other toxic or combustible gases. Our PID range includes gas leak detectors, SF6 leak detectors, and portable mercury detectors designed for variety of diverse applications. Address: Stafford, TX. Web site: www.ionscience.com/usa.

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Booth 2234

Iris Inspection Services specializes in exchanger tube inspection services using IRIS (UT), ECT, and RFT technologies. Our IRIS 9000Plus is the benchmark for accuracy in tube inspection technologies with production speeds up to 5 times faster than current IRIS systems and is the go-to technique to identify and quantify defects including corrosion. Address: Baytown, TX. Web site: www.iris-inspection.com.

IRT Integrated Rectifier Technologies, Inc.

Booth 1246

IRT is a leading manufacturer of transformer rectifiers and junction panels; servicing the CP industry internationally since 2001. We offer standard products for basic applications and also work with clients to develop custom solutions for special applications. Our products are designed and manufactured with quality, reliability, safety, and practicality in mind. All rectifiers are supplied with NRTL electrical approval from CSA or ETL (C/US certification and/or special approval). 780-447-1114 (Canada) / 918-805-7587 (USA) / sales@irtrectifier.com. Address: Edmonton, AB, Canada. Web site: www.irtrectifier.com.

J.H. Fletcher & Co.

Booth 1357 & 1363

J.H. Fletcher & Co. has been engineering and manufacturing equipment since 1937, with a focus on providing solutions that improve safety and efficiency. Included in Fletcher's standard product line is the Model BK-80 Grit Blaster, a robotic ultra-high pressure water and abrasive grit blaster. The model features 80' of reach and radio remote operation. Fletcher also offers specialty equipment, custom designed to help solve customer's operational obstacles. Address: Huntington, WV. Web site: www.jhfletcher.com.

JA Electronics Manufacturing Co.

Booth 1626

JA Electronics has been providing quality CP equipment for 40 years, and has now joined Matcor to provide the CP industry with the highest quality equipment and service. JA manufactures to our client's specifications & requirements. We are a Custom Manufacturer of CP Rectifiers, Junction Boxes, Solar CP Units, and related equipment. Rectifiers include Air-cooled, Oil-cooled, Manual control, Auto- Potential, Constant Current & Dual Rectifiers. Ask us about our Quick-Turn Rectifiers that can be shipped in 2-3 days. Junction box options include Anode, Negative & Uni-directional bond. Web site: www.jaelectronics.com.

Jetstream of Houston & FS Solutions

Booth 1415

Jetstream, manufacturer of industrial high-pressure water-blasting solutions for a wide range of applications, industrial cleaning, surface preparation, hydro-demolition, and abrasive waterjet cutting. Offering a complete line of skid and trailer-mounted pump units, control guns, valves, hoses, fittings, replacement parts and nozzles. Learn more about Jetstream and its products at www.waterblast.com. From the people who bring you Guzzler, Jetstream and TRUVAC, the brands you know and trust, we bring you FS Solutions. With nearly 100 years of collective experience. Address: Elgin, IL. Web site: www.waterblast.com.

Johns Manville

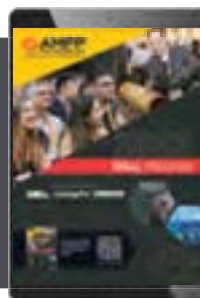
Booth 1556

Johns Manville, a Berkshire Hathaway company (NYSE: BRK.A, BRK.B), is a leading manufacturer and marketer of premium-quality products for building insulation, mechanical insulation, commercial roofing and roof insulation, as well as fibers and nonwovens for commercial, industrial and residential applications. JM serves markets that include aerospace, automotive and transportation, air handling, appliance, HVAC, pipe and equipment, filtration, waterproofing, building, flooring, interiors and wind energy. Address: Denver, CO. Web site: www.jm.com.

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Web site: www.cti-ind.com.

Kennametal, Inc.

Booth 1963

Kennametal is a global supplier of solutions for wear, heat, and corrosion problems, a world-class manufacturer of components, and a service provider to a wide range of industries. By matching our advanced material solutions and technologies to your applications, we can help you solve your biggest wear problems, avoid costly downtime and catastrophic failures, and achieve significant savings. Contact +1 833-379-1506 / k-corp-infra.insidesales@kennametal.com. Address: Pittsburgh PA.
Web site: www.kennametal.com.

Kirk Engineering

Booth 1529

It is with a heavy heart that we acknowledge the passing of our founder, Mr. Earl Kirkpatrick, on 12/19/2020 while pursuing his passion for flying. As most of you in the industry know, Earl was not only a very accomplished Engineer but a good man with a strong love for God and his country. Earl was a proud Marine Veteran, husband, father, and friend to all. Currently, the Kirk Cell company is on a hiatus, but we hope to very soon carry on his vision of providing quality engineered products for our industry. Address: Culver City, CA, .
Web site: www.kirkcell.com.

Kleen Blast Equipment

Booth 2729

Sandblasting abrasives and equipment. Address: Rancho Cucamonga, CA. Web site: www.kleenblast.com.

KTA-Tator, Inc.

Booth 1446

KTA-Tator, Inc. was the first Coating Inspection Firm qualified under SSPC QP-5 and employs over 140 NACE Certified Inspectors and 70+ CWI's across the globe to service our clients. KTA professionals are supported by analytical and physical testing laboratories accredited to ISO 17025 by A2LA (Testing Cert. #2455.01) and a fully stocked coating and corrosion inspection instrument sales department providing sales, calibration, and repair accredited to ISO 17025 by A2LA (Testing Cert. #2455.02). Address: Pittsburgh, PA.
Web site: www.kta.com.

L.A.B. Industries

Booth 2463

Peel and Stick Non-Skid anti-slip materials and abrasive sanding cloths. Address: Shreveport, LA.
Web site: www.labind.com.

LAIKEN S.A.

Booth 2253

Laiken specializes in the manufacture and sales of materials for Corrosion Control. We manufacture high quality aluminum, zinc, magnesium, graphite, titanium and high silicon cast iron anodes. We provide a wide range of products and services for Asset Management and Asset Integrity, such as ECDA instruments, Remote Monitoring units, Rectifiers, coupons and engineering services. We export our materials and services to all the world. Address: Buenos Aires, Argentina.
Web site: www.laiken.com.ar.

Lake Superior Consulting

Booth 2655

Lake Superior Consulting, LLC (LSC), a Shawcor company, is an engineering consulting and services company providing integrity management solutions and pipeline and facilities engineering solutions for the energy industry. Since 2002, the principles of excellence and integrity have driven every aspect of LSC and the way we support our clients. LSC continues to use innovative technologies to execute a wide range of projects and meet the increasing needs of our US and Canadian client base. Address: Duluth, MN.
Web site: www.lscconsulting.com.

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C Corporate Members

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C Langtry Blast Technologies, Inc.

Booth 3347

Langtry Blast Technologies Inc. is an established original blast equipment manufacturer from Burlington, Ontario, Canada. Our traditional business model is based on the accomplishment of properties in the shot blast manufacturing market across the globe. Integrating leading edge technology with our own product development, we have provided equipment to the key players in the automotive and aerospace market. Our internal engineering team provides solutions to the intricacies of blasting, cleaning and surface profile finishing. Address: Burlington, ON, Canada. Web site: www.langtry.org.

LBBC Blaskerville

Booth 2355

At LBBC BASKERVILLE, we supply innovative autoclaves that are recognized in the marketplace as being of the highest quality and integrity. We offer a range of innovative solutions engineered for projects where extreme realistic simulations are crucial for material selection, chemical analysis and corrosion control and assessment applications. If autoclaves are vital to your business or to process operation, product optimization, research, our dedicated team can help. Address: Leeds, UK. Web site: www.lbbcbaskerville.com.

LineVision

Booth 1253

Pipeline operators face the challenge of protecting assets and personnel from the risks of increasing AC interference. Accurate power flow data from overhead lines is the essential input to produce high quality AC models and ensure protection systems are properly designed. LineVision's PACT is the only monitoring system that independently collects this information and provides the true picture of the AC power flow dynamics. Address: Somerville, MA. Web site: www.linevisioninc.com.

LMI Rentals & Repairs

Booth 1053

Repairs, rentals & service of industrial equipment. Address: Youngstown, OH. Web site: www.lmirentalsrepairs.com.

C S LORESCO, Inc.

Booth 1628

LORESCO® manufactures impressed current anode backfill for all field conditions. LORESCO® SC-3® is designed specifically for demanding anode systems. LORESCO® meets all standards for impressed current anode backfills. SC-3®, RS.3®, and PowerFill® carry an NSF/ANSI/CAN std 60 certification. Other LORESCO® products are replaceable deep anode systems, AllVent™, and PermaPlug™. These products represent the

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LS Industries

Booth 1008

LS Industries is a manufacturer of equipment for cleaning metal, including shot blasters, washers and vibratory machines. Address: Wichita, KS. Web site: www.lsindustries.com.

Luna Labs USA

Booth 2334

Luna Labs USA (formerly a division of Luna Innovations) offers innovative corrosion monitoring systems and durable coatings that change how organizations manage and protect aerospace assets. Our Acuity monitoring systems enable corrosion-related maintenance practices based on actual aircraft usage and help researchers decrease risk when introducing new materials into service. Luna's Blockade GC and Gentoo coatings are eco-friendly solutions for long-lasting corrosion control on critical aircraft components, increasing availability and reducing maintenance costs. Address: Charlottesville, VA. Web site: www.lunainc.com.

C M.C. Miller Co., Inc.

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M.C. Miller Co., Inc. has been serving the needs of the corrosion control industry since 1945 as a manufacturer of equipment and software for the collection and management of corrosion control data. We offer state-of-the-art dataloggers, CIS and DCVG survey equipment, soil and marine reference electrodes, soil resistivity test kits (including resistance meters), GPS current interrupters, CP system multimeters, voltmeters, coupons, and flange and casing insulation checkers. M.C. Miller Co., Inc. Trusted by Corrosion Engineers Worldwide. Address: Sebastian, FL. Web site: www.mcmiller.com.

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Booth 2852

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Booth 1156

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C Mascoat

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Master Painters Institute (MPI)

Booth 534

Founded in 1995, The Master Painters Institute advances the painting and coatings application industry by providing performance standards and quality assurance. We serve the architectural and industrial paint and coating manufacturers, specifiers, and painters and contractors. MPI is a vital resource for the coatings industry worldwide and the leading paint performance certification organization in North America. Connect with us and see what we have to offer at mpi.net.

C S MATCOR

Booth 1621

MATCOR, a division of BrandSafway, has been in business for over 45 years. MATCOR is a turnkey ISO 9001:2015 certified provider of customized cathodic protection and AC mitigation products and engineering and installation services that solve corrosion problems globally for major infrastructure assets such as oil, gas and water pipelines, above ground storage tanks, power plants and refineries. Address: Chalfont, PA. Web site: www.matcor.com.

C Mears Group, Inc.

Booth 2438

Mears - Respected, Qualified Provider of Corrosion Engineering, Construction, Integrity Services to Oil, Gas - Energy Industries. 125 NACE Certified Engineers, Technicians, Skilled Workforce to address needs in Corrosion Control, Integrity Solutions. Mears provides NDT, Phased Array, Shear Wave Services for pipeline and pressure vessel inspections, Turn Key, Direct Assessment, ILI/DA digs, AC Mitigation, Material Identification, Hardness Testing, cathodic protection testing, design, installation, pipeline recoating and rehabilitation: 800 MEARSCP. Address: Rosebush, MI. Web site: www.mears.net.

C Mericka Group LLC

Booth 815

Booth 2859

Mericka Group is comprised of individuals that have been in the Multi Services Industry for many years. The ownership and management team have brought the vast knowledge and experience they have accumulated over the years to Mericka Group and it is evident in every project they do. Address: Westlake Village, CA. Web site: www.Merickagroup.com.

Meridian Pipeline Services

Booth 2457

Meridian Pipeline Services offers a combination of expertise in all phases of cathodic protection and AC mitigation with an informed, consultative approach to comprehensive pipeline integrity and regulatory compliance. Whether is it corrosion technical services for ECDA/ICDA projects, or AC mitigation and groundbed installations, we offer clients fully integrated turnkey services backed by specialized knowledge and experience. Address: North Kansas City, MO. Web site: www.meridianpipeline.com.



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C S Metal Samples

Booth 1947

Metal Samples offers a complete line of corrosion monitoring products including mechanical and hydraulic high-pressure access systems, ER and LPR corrosion probes and instruments, corrosion test coupons, coupon holders, test racks, chemical

injection systems, as well as specialized monitoring systems for erosion, hydrogen permeation, and biofilm formation.

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Address: Munford, AL. Web site: www.metalsamples.com.

MetriCorr Aps

Booth 2863

MetriCorr offers complete remote monitoring solutions for corrosion and cathodic protection of onshore pipelines and offshore wind power.

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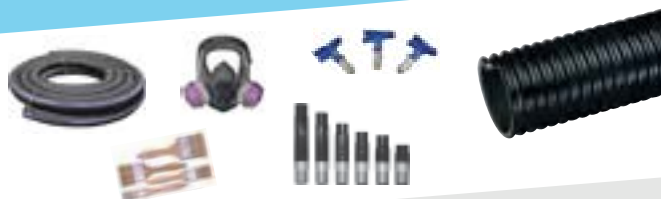


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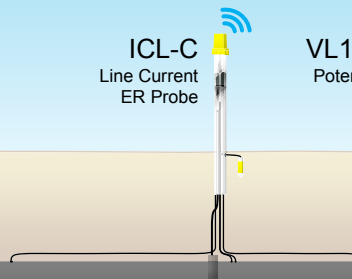
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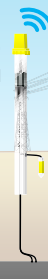
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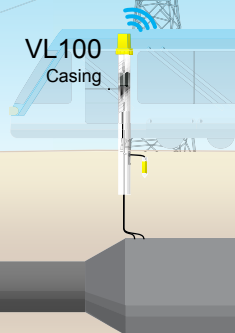
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Milwaukee Electronics

Booth 1869

Address: Milwaukee, WI.
Web site: www.milwaukeeelectronics.com.

C MinteralTech, LLC

Booth 1004

MineralTech Gulf Coast Abrasives, LLC is a Texas based corporation manufacturing industrial abrasives since 2011. We manufacture trademarked products Emerald Blast™ and BLACKMAX Iron™, while supplying garnet, Blastox blended abrasives, industrial sand products, and other industrial abrasives in the U. S., Canada, Mexico, and Asia. We offer superior service second to none in the abrasive industry. Our experienced staff has decades of service in the industrial painting industry, and are ready to lend technical support. Contact us at 281-462-4220 Address: Crosby, TX. Web site: www.mineraltechllc.com.

C S Mobiltex Data Ltd.

Booth 1314

Over 30 years of cathodic protection system monitoring innovation, over 200 major organizations across North America and around the globe, and over one-hundred and fifty thousand miles of pipeline assets protected – MOBILTEX platform solutions are redefining the cathodic protection and pipeline integrity remote monitoring industry with our patented 5G cellular and satellite IIoT technologies and legendary field performance. MOBILTEX is widely recognized in the industry for innovation, reliability, and our world-class service and support. THIS IS MOBILTEX. WE'RE THERE. Address: Calgary, AB, Canada. Web site: www.mobiltex.com.

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Booth 2639

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mPACT2WO (Molex Business)

Booth 2432

mPACT2WO offers packages for corrosion monitoring & TML optimization, condition monitoring and air compliance monitoring. Packages encompass sensors, dashboards & analytics and work on mPACT2WO's software platform mSyte. mPACT2WO's packages enable customers to automatically monitor large-scale installations and to gain process insights. Address: Chicago, IL. Web site: www.mpact2wo.com.

Nalco Water

Booth 2347

Nalco Water is Ecolab's global water and process treatment business for industrial customers. Our industry-leading water, refining and petrochemical expertise and service help solve your greatest technical challenges. Innovative solutions and data-driven insights help optimize your operations for improved performance, quality, efficiency, and reliability. Address: Sugar Land, TX. Web site: www.ecolab.com/nalco-water.

National Equipment Corp. (NECO)

Booth 2329

Manufacturer of Hose couplings and accessories. Address: College Station, TX. Web site: www.hosecoupling.com



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Applying Machine Learning Techniques to Identify and Predict Behavior of Rectifier and Groundbed State Change - Matthew Barrett PhD, Senior Data Scientist

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MOBILTEX Presentation Booth 1314

Strategic CP Automation Helps Overcome Operational and Labor Challenges Highlighted by COVID-19
- Mill Jawed, Director of Client Services

Tues. March 08 & Wed. March 09, 2022 — 1:00 pm

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Northrop Grumman Corporation

Booth 1215

Undersea Systems wet-mate connector technology Address: Annapolis, MD. Web site: NiobiCon™ Wet-Mate Electrical Connector - Northrop Grumman.

C Norton Corrosion Limited LLC

Booth 2453

Since 1959, NCL provides corrosion/CP engineering, materials, and installations. Our staff includes registered PE's & 4 CP Specialists. We work on: wharfs/piers, buried piping, ASTs, USTs, refineries, waste/water treatment plants, & concrete/rebar applications. We specialize in marine environment & PowerGen applications. NCL provides CP plans/specifications, evaluations, & annual surveys. Material provided range from galvanic systems to custom built ICCP sleds. NCL exclusively manufactures the Bayanode® probe anodes & Morganode® II Anodes. Address: Woodinville, WA. Web site: www.nortoncorrosion.com.

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Novatek Corporation

Booth 1752

Surface Preparation Equipment and Air Filtration Equipment. Address: Exton, PA. Web site: www.novatekco.com.

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NTS

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Nukote Coating Systems

Booth 1326

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Chemical Mitigation of Alkaline Carbonate Stress Corrosion Cracking

Monday, March 7
8:10 am - 8:35 am

Presented by:
Oussama Zenasni
RD&E Program Leader,
Downstream Refinery Process

Structure and Related Effectiveness of Naphthenic Acid Corrosion Inhibitors

Monday, March 7
3:00 pm - 3:25 pm

Presented by:
Oussama Zenasni
RD&E Program Leader,
Downstream Refinery Process

Chemical Mitigation of Alkaline Carbonate Stress Corrosion Cracking

Tuesday, March 8
11:00am - 11:25am

Presented by:
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C Olimag Sands, Inc.

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Abrasives for sandblasting. Address: Thetford Mines, QC, Canada. Web site: www.olimag.com.

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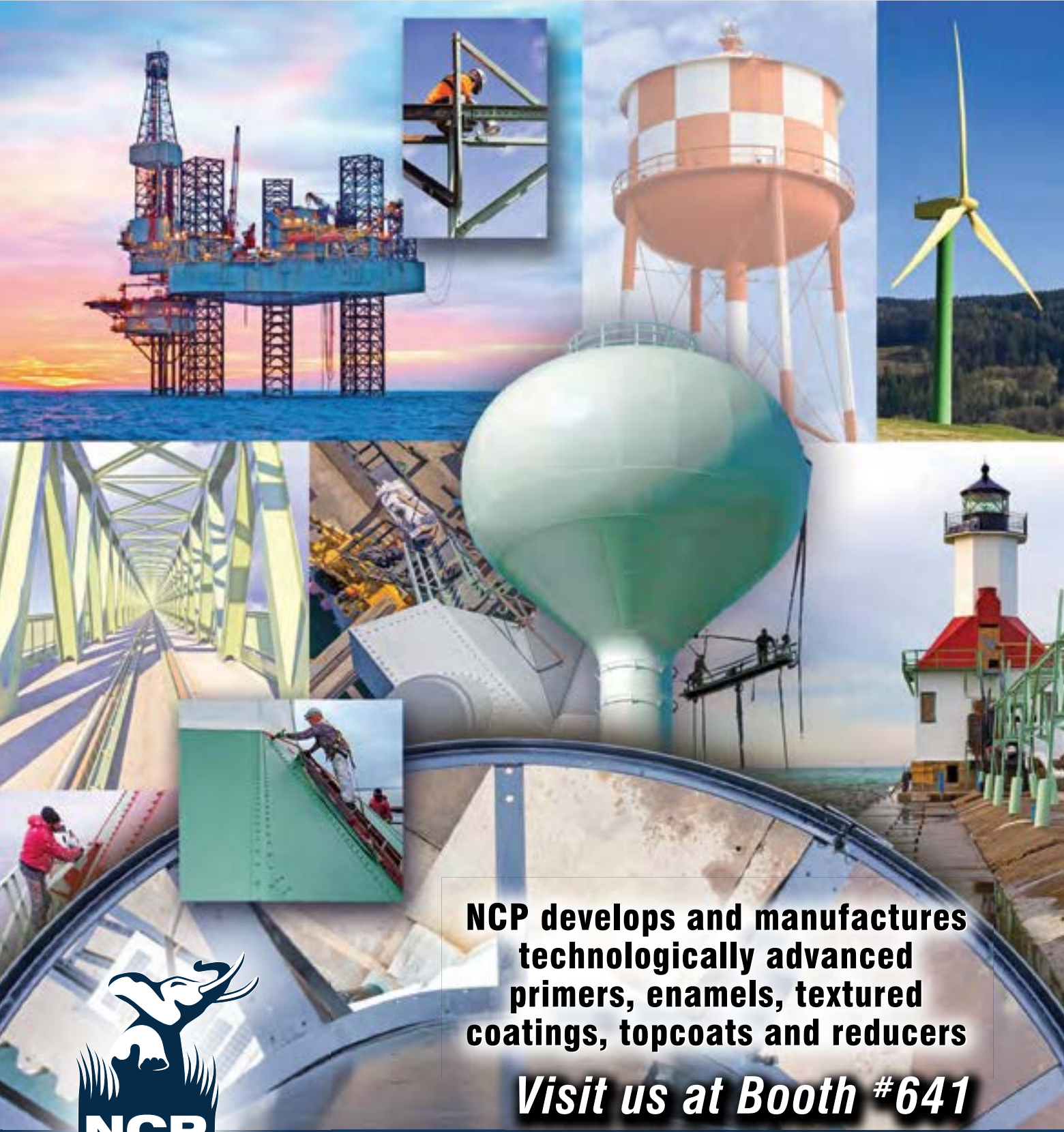
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Pipeline Compliance Services

Booth 2456

Cathodic protection company exceeding in customer relations and excellent work quality. Address: Longview, TX. Web site: www.pipelincs.net.

Pipeline Integrity Resources

Booth 2326

Cathodic Protection Installation Services. Survey. Address: Longview, TX. Web site: www.pirtx.com.

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C S Pond and Co.

Booth 1217

Full service Asset Integrity consultant providing Corrosion engineering, Coatings engineering, Pipeline & Mechanical Integrity and Pipeline Survey services. Address: Peachtree Corners, GA. Web site: www.pondco.com.

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QSA Global, Inc.

Booth 815

OpenVision DX CUI Scanning System. Address: Baton Rouge, LA. Web site: www.qsa-global.com

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Ramco Manufacturing

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Flange Isolation Gaskets, Coated U-bolts, Flange Protectors, Spray Shield, Leak Detection Paint. Address: Houston, TX. Web site: www.ramco-safetyshields.com.

C S Rapid Prep

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S RockGuard® by Industrial Fabrics, Inc.

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ROCKWOOL Technical Insulation

Booth 648

ROCKWOOL Technical Insulation is part of the ROCKWOOL Group and is offering advanced technical insulation solutions for the process industry as well as marine & offshore. Address: Houston, TX. Web site: www.rti.rockwool.com.

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Booth 623

SPY Inspection Equipment is a leading US manufacturer of SPY® brand coating, foil/film and geomembrane inspection equipment, jeep meters (high voltage meters) and pig tracking equipment serving oil and gas, coating, lining/film industries for over 67 years. All SPY® brand products are highly regarded by many in these industries as best in class. Visit our website at www.spyinspect.com. Address: Houston, TX. Web site: www.spyinspect.com.

Step-Ko Products, LLC

Booth 1315

Step-Ko Products is a dynamic company offering a range of products to protect assets from the environment. Our product range consists of flange isolation kits, poly coated U-bolts and monolithic insulating joints for Cathodic Protection. We also offer a variety of specialty tapes, primers, heat shrinkable sleeves, stainless steel bands, and Pipeline Pipe Supports. Our driven success to date and with the commitments of the employees of Step-Ko Products has given us the advantage to offer the high level of service to our customers. Address: Lafayette, LA. Web site: www.Stepko.com.

Stolk Labs, Inc.

Booth 1412

Stolk Labs, Inc. is an ISO/IEC 17025:2017 accredited materials testing lab in Richardson, TX, that offers corrosion product analysis for a variety of industries. Our metallurgical & surface specialists have analytical-grade corrosion analysis equipment to provide maximum data quality & can identify the type of corrosion affecting the appearance or safety of structures. We can find trace levels of corrosion accelerants sourced from the environment, impurities on metal surfaces, or residual liquids; determine if cleaning & pre-treatment steps will prevent moisture attraction. Address: Richardson, TX. Web site: www.stolklabs.com.

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Booth 753

STOPCOR Corrosion Control Patented Technology. We operate in the Cathodic Protection sector and we specialize in anode production and in Impressed Current systems (ICCP). Our innovative STOPCOR® is an affordable impressed current system which generates protective current up to -1,5 V through a sacrificial anode, without the need of an external power source or batteries. It is suitable for both domestic and commercial applications. United States of America Patent/ Nikitas Kounadinis. Address: London, UK. Web site: www.stopcor.co.uk.

Stress Engineering Services

Booth 1856

Since 1972, Stress Engineering Services has been a global leader in consulting engineering services and solutions for a variety of industries. Our commitment is to provide the most comprehensive design, analysis, and testing services with an unsurpassed level of engineering integrity and skill. We specialize in customized corrosion testing in our state-of-the-art corrosion laboratories where we conduct standardized corrosion tests, but our main focus is in duplicating the situations that our customers face in real life. To learn more, visit us at www.stress.com. Address: Houston, TX. Web site: www.stress.com.

Stuart Steel Protection Corp.

Booth 1612

Stuart Steel Protection, founded in 1952, provides corrosion control materials and services to the oil, gas, water, power, and marine industries. In addition to exhibiting the most current innovations in cathodic protection products, the company representatives will also be featuring Dairyland's UltraBox. Addresses: S. Bound Brook, NJ & Hiram, GA. Web site: www.stuartsteel.com.

Sulzer Mixpac USA, Inc.

Booth 1427

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S Superior Corrosion

Booth 2330

Superior Corrosion Control (SCC), a Michigan based manufacturer, was established in 2006 by a management team spanning 3 generations in the pipeline integrity industry. SCC represents over 100 years' experience in the development and manufacturing of wax based wraps and anti-corrosive materials. Armed with this profound understanding of our industry, the SCC Wax Wraps were introduced. VCP Sales is proud to be the exclusive Global distributor of SCC Wax wraps and its' associated corrosion prevention products. For more information, please contact sales@vcpsales.com. Address: Michigan City, IN. Web site: www.vcpsales.com.

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Booth 2353

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Swain Meter Company/The

Booth 1128

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C Tarps Manufacturing

Booth 2263

Containment Tarps. Address: Meredosia, IL. Web site: www.tarpsmfg.com.

TDI Group, Inc./The

Booth 1313

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Technical Toolboxes is a leading software and technical training provider supporting pipeline engineering needs. Technical Toolboxes' fit-for purpose pipeline engineering software platform will help you reduce risk, lower total cost of operations, and accelerate project schedules. Hundreds of companies rely on our certified, industry-standard technology to enhance their pipeline engineering performance. Address: Houston, TX. Web site: www.technicaltoolboxes.com.

C Teknos

Booth 837

Teknos is a global coatings company offering a wide range of paints and coatings for the manufacturing industry, energy sectors (including Oil and Gas), building professionals, and infrastructure. With operations in more than 20 countries in Europe, Asia, and the Americas, we are on our mission to make the world last longer by providing smart, sustainable coating solutions to protect and prolong. Address: Charlotte, NC. Web site: www.teknos.com.

Temp-Coat Brand Products, LLC

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C Texan Stone LLC dba Texan Minerals & Chemicals

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Texan Stone LLC is a Houston-based import-export company specializing in international wholesale supply chain. We import more than 30 million pounds of abrasive products per year, making us the fastest growing garnet and staurolite wholesaler in the nation. The products have necessary industry certifications. We deliver premium quality abrasives for surface preparation industry to all US ports and provide efficient interstate and intrastate logistics and storage solutions for customers. TSLLC has field offices and operations in India, Ukraine, China, and Middle East. Address: Sugar Land, TX. Web site: www.texanstone.com.

C Texas Compression, LLC

Booth 2163

Texas Compression, LLC is a mechanical and industrial services contractor with more than 40 years' experience. Our mission is to safely deliver the highest level of service and premium products maximizing the uptime of critical process equipment. We specialize in situations where safety, quality and reliability are a priority. Address: Houston, TX. Web site: www.texascompression.com.

C S Tinker & Rasor

Booth 1747

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C Titan Tool

Booth 2126

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C Titanium Electrode Products, Inc.(TELPRO)

Booth 2650

Titanium Electrode Products(TELPRO) is an independent manufacturer specializing in the cost-effective supply of mixed metal oxide (MMO) and platinized titanium anodes for the cathodic protection and chlorine industries worldwide. TELPRO manufactures MMO tubular anodes, MMO ribbon anodes, MMO wire anodes, MMO rod anodes, MMO plate and disc anodes, and custom anodes per customer requirements. Platinized titanium anodes are also manufactured to customer specifications. Address: Stafford, TX. Web site: www.telprocompanies.com.

Tnemec Company, Inc.

Booth 1146

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Booth 577

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Web site: www.troydualam.com.

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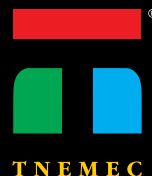


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Implications of NSF Std. 61 Changes and an Asset Management Based Data Driven Protocol for Potable Water Coatings Selection

Monday, March 7 – 1:25 pm CST

presented by Randy Moore, Cameron Walker

Why Voltage Matters for High Voltage Holiday Testing on Steel

Wednesday, March 9 – 2:35 pm CST

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Booth 2133

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C Zhejiang Yuxi Corrosion Control Corp.

Booth 1310

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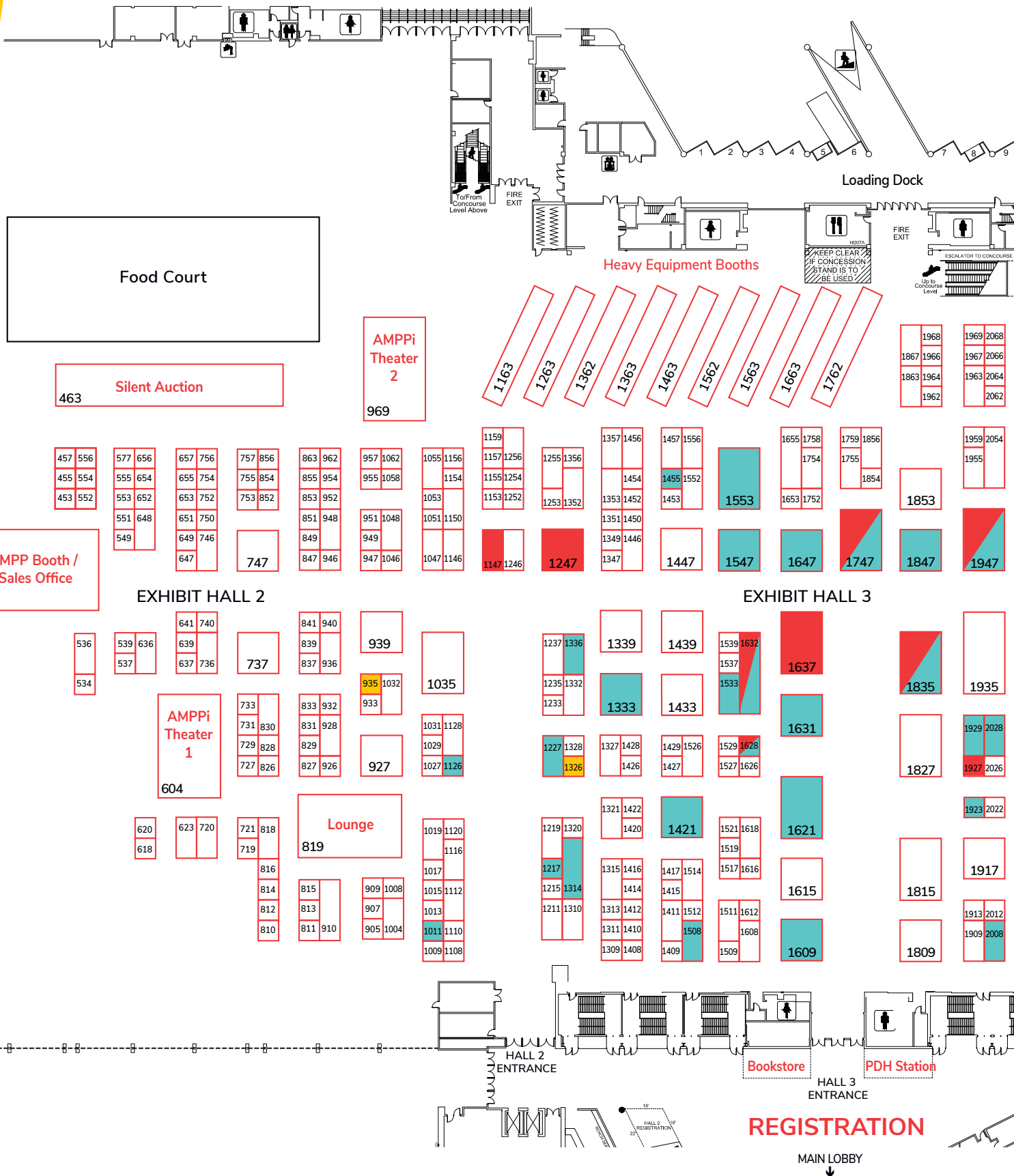
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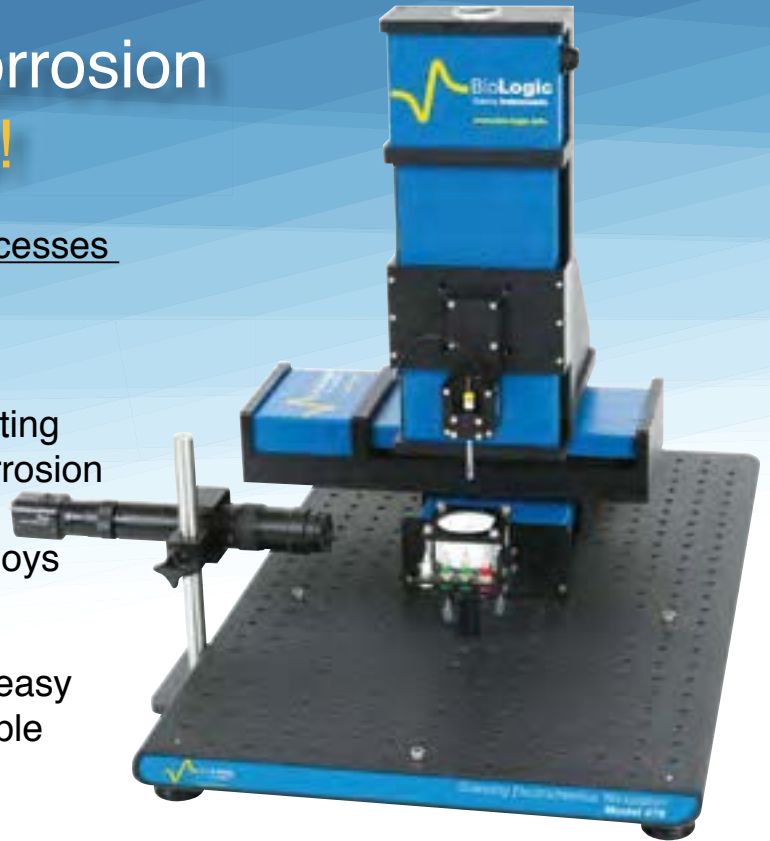
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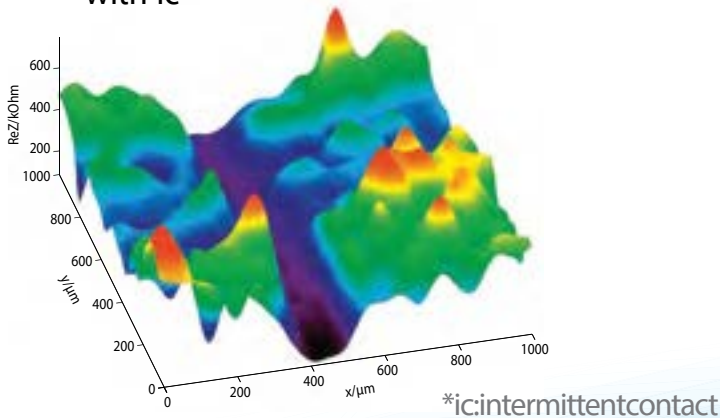
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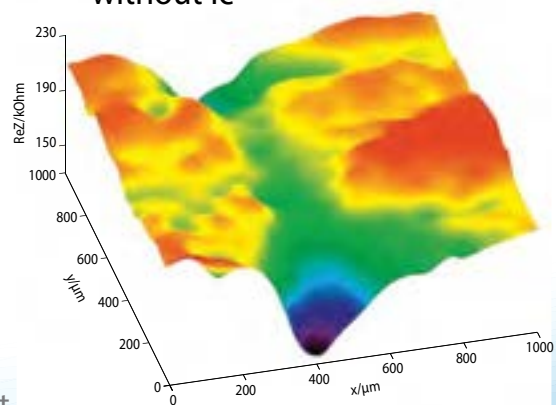


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