CORROSION 2020
Conference & Expo
March 15-19 • Houston, Texas
ADVANCE PROGRAM

OFFICIAL MEDIA PARTNERS

www.nacecorrosion.org
Need a superior coating for above ground pipelines?

Talk to one of our owners

Above ground pipelines suffer their own stress – especially degradation under harmful sun rays. We now have a unique RD-6® UVO Overcoat to protect pipes from blistering UV Rays and employee owners to demonstrate its stability. Working with an owner gets you more.
Don’t miss out on THE corrosion and protective coatings industry event of the year!

NACE is bringing the world’s largest corrosion conference & expo back to its home town, HOUSTON!

Expect CORROSION 2020 to be bigger than ever with more exhibits, more attendees, and more corrosion and coatings content.

Expand your professional network and build key business partnerships with:

6,000+ corrosion industry professionals from 60 countries

1,000+ hours of technical education, corrosion knowledge & professional development strategies for whatever your corrosion-fighting role

400+ companies from around the globe displaying the latest corrosion control products, technologies, and services

Save the date and visit nacecorrosion.org for more information on attending or contact sales@nace.org for exhibits and sponsorship opportunities.
Welcome to the CORROSION 2020 Advance Program

I am pleased to introduce the advance program for CORROSION 2020, your guide for navigating NACE International’s 75th annual conference. Located in Houston, Texas, USA, our March 2020 conference will offer the broad spectrum of corrosion-related technical, research, educational, public awareness, and networking activities that you and the corrosion industry have come to expect.

More than 200 technical and administrative meetings will be held throughout the week, enabling members to work on standards and reports, exchange technical information, and manage association business. The technical program, with 50 symposia, will feature paper presentations on a wide range of corrosion topics, including corrosion management, marine corrosion, anodic and cathodic protection (CP), materials and integrity in oil sands, and much more.

Special forums will address such topics as the business impact, policy opportunities, and technology innovations for corrosion control; common coating failures and how to prevent them; how to strengthen organizations with effective leadership; a regulator and industry perspective on best pipeline safety practices; and how the corrosion industry is revolutionizing corrosion management, featuring the IMPACT PLUS online portal with tools and resources to ensure best practices in corrosion programs throughout organizations. In addition, attendees are invited to learn about corrosion issues specific to areas of the world that include the Middle East, Africa, and Latin America.

The accompanying NACE Expo will feature more than 350 companies displaying the latest in corrosion control products and services. In addition, the CP test field will be available on the exhibit floor for the ninth year. The interactive Coatings Experience area will be adjacent to the CP field for the second year; also in its second year is the Protective Coatings Workshop.

Corrosive Chronicles returns for the fifth year, featuring corrosion professionals in a theater setting who will present their experiences on corrosion incidents in the field and lessons learned. As part of this program, the NACE Coatings Council and Water/Wastewater Council will present a joint seminar on practical solutions to real-world corrosion issues. CoatingsPro will again recognize industry excellence in the application of commercial and industrial high-performance coatings with the fourth annual Contractors Awards Program.

The CORROSION 2020 keynote speaker is Jill Ellis, coach of the 2019 U.S. Women’s World Cup soccer team. She will discuss strategies for success and the critical importance of team strength and focus.

As always, there are numerous social opportunities to spend time with friends and expand your network of corrosion professionals. Popular annual events include the NACE Foundation’s Sunday morning NACE Race and Darrel D. Byerley Memorial Golf Tournament; the Sunday evening Opening Reception; the Expo Grand Opening on Monday evening; the NACE Foundation’s Tuesday evening scholarship awards and GenNEX Bash; and the Wednesday evening NACE Honoree Night. The Foundation will also host Wednesday’s Corrosion: Opportunities Realized mini-camp for local high school students designed to educate and spread corrosion awareness to the next generation.

Last year’s annual conference in Nashville, Tennessee, was successful by every measure. I fully expect CORROSION 2020 to once again exceed the expectations and enrich the careers of more than 6,000 participants from all over the world. This program contains complete details on all you will experience and learn. I look forward to seeing you there.
High Temperature Pipeline Coating

PORTAL™ 7900HT

Abrasion Resistant Pipeline Coating

PORTAL™ ARO

Portable Spray Gun for Small Repairs

AIR CARTRIDGE GUN

PROTAL™ 7125
Applied to colder substrates at colder ambient temperatures. Cold temperature application down to -4°F (-20°C). Will not freeze when applied to substrates below 30°F (0°C).

PROTAL™ 7300
Formulated to coat wet, damp and dry surfaces. Application and service temperature of 32°F (0°C) to 150°F (65°C).

LEADERS IN CORROSION PREVENTION

www.densona.com
Call: +1 281-821-3355  E-mail: info@densona.com
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Tinker & Rasor has officially moved its operation to 2828 FM 758, New Braunfels, Texas 78130.

We wish to thank our employees through the years for all they have done for Tinker & Rasor.

tinker-rasor.com
General Conference Information

CORROSION 2020 Location
George R. Brown Convention Center
1001 Avenida de Las Americas
Houston, TX 77010 USA

Getting to Houston
George Bush Intercontinental Airport (IAH)
2800 N. Terminal Rd.
Houston, TX 77032 USA
William P. Hobby Airport (HOU)
7800 Airport Blvd.
Houston, TX 77061 USA

Visa Application for International Delegates
Any individual traveling from an international location into Houston will need to check the U.S. Department of State web site to identify their specific country visa requirements.

For detailed listings of whether you will require a U.S. visa in order to attend CORROSION 2020, please visit travel.state.gov.

Registration Policies
Check refunds are processed after the conference. There are no refunds on exhibit visitors or networking tickets. Registrations received after March 6, 2020 will be processed on site.

Conference Shuttle Service
NACE International is providing shuttle service between the George R. Brown Convention Center and selected CORROSION 2020 hotels. This service is only for attendees and exhibitors staying at the selected official hotels. Transportation will begin on Sunday, March 15, and continue through Thursday, March 19. Detailed schedules will be posted in the CORROSION 2020 Final Program, at the official hotels, and in the convention center.

Official Conference Language
The official conference language is English.

Dress Code
The dress code for all official conference activities, excluding the Honoree Night, is business casual. Attire for the Honoree Night is business dress.

Corporate Access Lounge and Diamond Access Lounge
The Corporate Access Lounge offers qualifying Corporate Member representatives specialized service and an oasis for conducting business while at conference. Reserve meeting rooms, check email on computers with Internet access, or just relax between meetings.

The Diamond Access Lounge will have extended benefits for qualifying Diamond Corporate Member representatives, offering additional services.

Lounge Hours:
Sunday ................................................................. 8 a.m. to 5 p.m.
Monday through Wednesday .................................. 8 a.m. to 6 p.m.
Thursday ................................................................. 8 a.m. to noon

Learn how you can become a Corporate Member of NACE International today. Please contact our Corporate Member Coordinator at 1 800-797-6282 U.S./Canada, or +1 281-228-6282 worldwide, or visit www.nace.org/corporate-membership.

Express Pass and Registration
CORROSION 2020 Registration will be located in Exhibit Hall D in the George R. Brown Convention Center.

Sponsored by:

Manage Itinerary
Create your personal schedule of events, forums, symposia, and technical committee meetings before you attend conference. Access the CORROSION 2020 visual schedule on the “Agenda” page at www.nacecorrosion.org.

Press Office
The NACE Press Office is a workspace available for registered media and includes complimentary WiFi in a quiet space away from exhibits and sessions. A press badge is required for access to the Press Office. Each preregistered member of the press will have a mailbox located in the press room. Exhibitors may deliver press kits for distribution to registered press at any time the Press Office is open.

Press Office Hours:
Tuesday ................................................................. 8 a.m. to 5 p.m.
Wednesday ........................................................... 8 a.m. to 5 p.m.
Thursday ................................................................. 8 a.m. to noon

NACE Information Kiosk
Got a question? We can help. NACE staff will be available to help you with directions or answer general conference questions. The kiosk will be located on Level 3 by the skybridge to the Hilton Americas Hotel.
NACE Store
Looking for a certain book on corrosion? Visit the NACE Store where you can browse through corrosion-related books, standards, reports, and software. Hundreds of products will be available with many at special sale prices. The NACE Store will be located in the lobby outside Exhibit Hall C of the George R. Brown Convention Center.

Professional Development Hours (PDHs) Stations
Earn PDHs in technical meetings, forums, and symposia you attend. Print out your personalized PDH certificates at the PDH Station located near Registration in Exhibit Hall D. Certificates are based solely on the information provided to NACE at the time of printing.

For certificates it is necessary to:
Log on to the web site at www.nace.org/pdh.
Search for or browse to select the sessions you attended.
Email or print your certificate!
This system will be available online for six months after the conclusion of the conference from your NACE profile.

Sponsored by:

CORROSION 2020 Conference Papers
The CORROSION 2020 conference proceedings will be available on USB and online. Please see below for pricing details:

<table>
<thead>
<tr>
<th>Register before January 24, 2020—Complimentary USB or Online Access</th>
<th>Register after January 24, 2020—$149 USD for USB or Online Access</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advance registrants</td>
<td>Full paid conference attendees</td>
</tr>
<tr>
<td>Full paid conference attendees</td>
<td>Full exhibitor comp registration</td>
</tr>
<tr>
<td>Full exhibitor comp registration</td>
<td>Student registrants</td>
</tr>
<tr>
<td>Student registrants</td>
<td>Not attending CORROSION 2020</td>
</tr>
</tbody>
</table>

Sponsored by:

NACE Booth
Located in the far right of the Exhibit Hall, in Booth 2729
The NACE booth offers information on all things NACE, including education and certification programs, publications, public affairs, conferences, standards, and the NACE Foundation.

Convention Center Accessibility
The George R. Brown 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 NACE International (firstservice@nace.org) for additional assistance.

Social Media
Keep up with all things CORROSION on social media. Follow NACE on Twitter, Instagram, Facebook, and LinkedIn to get important updates about the world’s largest corrosion conference.

Remember to use the official conference hashtag #CORROSION2020 to connect with exhibitors, speakers, and attendees before and during the conference!

Facebook /naceinternational
Twitter @nacetweet
Instagram @nacetweet
LinkedIn /company/nace-international
Registration Information

General Registration Information
Registration is available online from October 14, 2019 through March 12, 2020. After March 12, 2020, registrations will only be accepted on site at the George R. Brown Convention Center. Advance registration rates will be available from October 14, 2019 to January 24, 2020. After January 24, 2020, regular registration rates will apply.

Advance/Full Registration
In the categories listed above, advance full conference attendees who register by January 24, 2020 receive an online subscription or a USB flash drive of all technical symposium papers presented at the conference. An online subscription or USB flash drive of the 2020 conference papers can also be purchased at the conference in the NACE Store, in Registration, or on the NACE web site for a flat rate of $149 USD for non-full conference registrants. Demonstration stations about how to access the conference proceedings online will be available in the NACE Store.

One- and Two-Day Registrations
One- and two-day registrations allow registrants access to areas listed above on the selected day(s) registered.

Student Registrations
To learn about the qualifications for becoming a NACE student member and requirements for student registration, visit www.nace.org/students. Requirements must be fulfilled before conference registration can be accepted.

Guest Program Registration
As the guest of a registered attendee, guest registration allows access to social activities and the Exhibit Hall. It does not allow access to meetings, forums, or symposia. To attend guest program activities, additional fees may be required—visit www.nacecorrosion.org or turn to p. A38 for guest program details.

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<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>PRICE (USD)</th>
<th>Open Reception Sunday</th>
<th>Expo Grand Opening Monday</th>
<th>Lunch Tuesday</th>
<th>Drink Ticket Wednesday</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Member</td>
<td>Nonmember</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advance Full Registration</td>
<td>$799</td>
<td>$899</td>
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<tr>
<td>Regular Full Conference Registration</td>
<td>$950</td>
<td>$1,120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunday-Monday Two-Day Only Registration</td>
<td>$605</td>
<td>$705</td>
<td></td>
<td></td>
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<tr>
<td>Monday-Tuesday Two-Day Only Registration</td>
<td>$605</td>
<td>$705</td>
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<td></td>
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<tr>
<td>Tuesday-Wednesday Two-Day Only Registration</td>
<td>$630</td>
<td>$730</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday-Thursday Two-Day Only Registration</td>
<td>$605</td>
<td>$705</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunday One-Day Only Registration</td>
<td>$405</td>
<td>$505</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monday One-Day Only Registration</td>
<td>$405</td>
<td>$505</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tuesday One-Day Only Registration</td>
<td>$430</td>
<td>$530</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wednesday One-Day Only Registration</td>
<td>$430</td>
<td>$530</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday One-Day Only Registration</td>
<td>$405</td>
<td>$505</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Advance Registration</td>
<td>$0</td>
<td>$95</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Regular Registration</td>
<td>$100</td>
<td>$105</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guest Program Advance Registration</td>
<td>$150</td>
<td>$150</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Guest Program Regular Registration</td>
<td>$170</td>
<td>$170</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exhibitor Visitor-Exhibit Hall Only Pass</td>
<td>$130</td>
<td>$130</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protective Coatings Workshop</td>
<td>$199</td>
<td>$249</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Registration and Housing

### Important Dates and Information

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>OCTOBER 14, 2019</td>
<td>Housing opens</td>
<td>We recommend that you select your hotel early to ensure you are able to book a room at your preferred hotel.</td>
</tr>
<tr>
<td></td>
<td>Registration opens</td>
<td>Register online at <a href="http://www.nacecorrosion.org">www.nacecorrosion.org</a>.</td>
</tr>
<tr>
<td></td>
<td>Mail: NACE International</td>
<td>15835 Park Ten Place, Houston, TX USA 77084</td>
</tr>
<tr>
<td></td>
<td>Phone: 1 800-797-6223, +1 281-228-6223</td>
<td>(U.S. and Canada) or +1 281-228-6223 (Worldwide)</td>
</tr>
<tr>
<td></td>
<td>Fax: +1 281-228-6329</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Payment information</td>
<td>NACE accepts checks, money orders, or credit card payments. Invoices will not be issued.</td>
</tr>
<tr>
<td>JANUARY 24, 2020</td>
<td>Advance registration closes</td>
<td>After January 24, registrations will be processed at the regular price.</td>
</tr>
<tr>
<td>FEBRUARY 20, 2020</td>
<td>Housing closes</td>
<td>All changes, cancellations, and reservations must be handled directly by the hotels, not the housing bureau.</td>
</tr>
<tr>
<td>MARCH 12, 2020</td>
<td>Online registration closes</td>
<td>After March 12, registrations will only be accepted at the George R. Brown Convention Center.</td>
</tr>
<tr>
<td>MARCH 15, 2020</td>
<td>CORROSION 2020 begins</td>
<td>For times and locations of on-site registration, please visit <a href="http://www.nacecorrosion.org/registration">www.nacecorrosion.org/registration</a>.</td>
</tr>
<tr>
<td>MARCH 19, 2020</td>
<td>Registration closes</td>
<td>noon</td>
</tr>
<tr>
<td></td>
<td>NACE Store closes</td>
<td>1 p.m.</td>
</tr>
<tr>
<td></td>
<td>Exhibit Hall closes</td>
<td>noon</td>
</tr>
<tr>
<td></td>
<td>NACE Office closes</td>
<td>5 p.m.</td>
</tr>
</tbody>
</table>

### Conference Registration Payment and Information

Registration will not be processed without payment. Registration and payment date determine price. Payment must be made in U.S. dollars from a U.S. financial institution.

*If you have a disability that may hinder your participation, fax a written description of your needs to +1 281-228-6329 and a NACE staff member will contact you.*

### Registration Policies

Check refunds are processed after the conference. There are no refunds on exhibit visitors or networking tickets. Registrations received after March 12, 2020 will be processed on site.

### Cancellation and Refund Policy

Paid registrations cancelled in writing at least 35 calendar days or more prior to the start of the event will receive a full refund, less a 10% service fee. Paid registrations cancelled in writing 34 to 3 days before the starting date of the event will receive a refund of 50% of the registration fee. No refunds or credit will be issued on cancellation requests received less than 3 days before the event begins. Transfer of registration is permitted one time, with the following fees: $100 USD (member/nonmember rates are applicable). Transfers may not be made less than 3 days before the event begins.

All requests for transfer or cancellation must be submitted in writing to [firstservice@nace.org](mailto:firstservice@nace.org). No refund will be processed if the registrant is a no-show.

### Important Contacts

<table>
<thead>
<tr>
<th>Service</th>
<th>U.S.</th>
<th>INTERNATIONAL</th>
<th>EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Registration Services and General Questions</td>
<td>1 800-797-6223</td>
<td>+1 281-228-6223</td>
<td><a href="mailto:firstservice@nace.org">firstservice@nace.org</a></td>
</tr>
<tr>
<td>Housing Information</td>
<td>1 877-305-5195</td>
<td>+1 980-819-4638</td>
<td><a href="mailto:nace@conferencedirect.com">nace@conferencedirect.com</a></td>
</tr>
<tr>
<td>Membership Services</td>
<td>1 800-797-6223</td>
<td>+1 281-228-6223</td>
<td><a href="mailto:firstservice@nace.org">firstservice@nace.org</a></td>
</tr>
<tr>
<td>NACE Conferences</td>
<td>+1 281-228-6413</td>
<td>+1 281-228-6413</td>
<td><a href="mailto:lesley.martinez@nace.org">lesley.martinez@nace.org</a></td>
</tr>
<tr>
<td>NACE Exhibits</td>
<td>+1 281-228-6227</td>
<td>+1 281-228-6227</td>
<td><a href="mailto:jackie.foster@nace.org">jackie.foster@nace.org</a></td>
</tr>
<tr>
<td>NACE Sponsorships</td>
<td>+1 281-228-6299</td>
<td>+1 281-228-6299</td>
<td><a href="mailto:sales@nace.org">sales@nace.org</a></td>
</tr>
<tr>
<td>Conference Symposium Papers</td>
<td>+1 281-228-6218</td>
<td>+1 281-228-6218</td>
<td><a href="mailto:papers@nace.org">papers@nace.org</a></td>
</tr>
</tbody>
</table>
## Official Conference Hotels

### Official Conference Hotels List

<table>
<thead>
<tr>
<th>#</th>
<th>HOTEL NAME</th>
<th>HOTEL ADDRESS</th>
<th>RATES (USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>SINGLE/DOUBLE</td>
</tr>
<tr>
<td>1</td>
<td>Hilton Americas—Houston</td>
<td>1600 Lamar, Houston, TX 77010</td>
<td>$245</td>
</tr>
<tr>
<td>2</td>
<td>Marriott Marquis Houston</td>
<td>1001 Avenida de Las Americas, Houston, TX 77010</td>
<td>$244</td>
</tr>
<tr>
<td>3</td>
<td>Embassy Suites Hotel</td>
<td>1515 Dallas St., Houston, TX 77010</td>
<td>$240</td>
</tr>
<tr>
<td>4</td>
<td>Holiday Inn Express</td>
<td>1810 Bell St., Houston, TX 77003</td>
<td>$198</td>
</tr>
<tr>
<td>5</td>
<td>Hampton Inn</td>
<td>710 Crawford St., Houston, TX 77002</td>
<td>$225</td>
</tr>
<tr>
<td>6</td>
<td>Homewood Suites</td>
<td>710 Crawford St., Houston, TX 77002</td>
<td>$230</td>
</tr>
<tr>
<td>7</td>
<td>Four Seasons Hotel</td>
<td>1300 Lamar St., Houston, TX 77001</td>
<td>$246</td>
</tr>
<tr>
<td>8</td>
<td>SpringHill Suites</td>
<td>914 Dallas St., Houston, TX 77002</td>
<td>$212</td>
</tr>
<tr>
<td>9</td>
<td>Courtyard by Marriott</td>
<td>916 Dallas St., Houston, TX 77002</td>
<td>$212</td>
</tr>
<tr>
<td>10</td>
<td>Residence Inn</td>
<td>904 Dallas St., Houston, TX 77002</td>
<td>$212</td>
</tr>
<tr>
<td>11</td>
<td>JW Marriott</td>
<td>806 Main St., Houston, TX 77002</td>
<td>$240</td>
</tr>
<tr>
<td>12</td>
<td>Hyatt Regency Houston</td>
<td>1200 Louisiana St., Houston, TX 77002</td>
<td>$199</td>
</tr>
<tr>
<td>13</td>
<td>C. Baldwin, Curio Collection by Hilton</td>
<td>400 Dallas St., Houston, TX 77002</td>
<td>$210</td>
</tr>
</tbody>
</table>

### Ways to Reserve Your Room

#### Internet Reservations

To secure your reservation online, please visit [www.nacecorrosion.org](http://www.nacecorrosion.org). You will receive an automatic acknowledgement email from our housing bureau, ConferenceDirect. Acknowledgements will be emailed within six hours of your reservation being processed directly online. If you do not receive your acknowledgement in this time frame, please contact the CORROSION 2020 Housing Bureau at **1 877-305-5195**, **+1 980-819-4638** (International), or email **nace@conferencedirect.com**.

Reservations at the official conference hotels in Houston may also be obtained through NACE International during the CORROSION 2020 registration process online. The deadline to reserve a room through online registration is February 20, 2020. After February 20, 2020, hotel reservations and conference registration will no longer be available through the NACE International website.

**ALERT! ConferenceDirect is the ONLY APPROVED HOUSING AGENCY for CORROSION 2020 in Houston.**

If you are contacted by anyone other than ConferenceDirect, please note they are not endorsed by NACE International. Despite their claims, they do not have access to our negotiated discounted rates. For accurate information regarding reservations or availability, please contact our official housing bureau, ConferenceDirect, or call **1 877-305-5195** (U.S. and Canada), **+1 980-819-4638** (International).
Official Conference Hotels

- Hilton Americas - Houston
- Marriott Marquis Houston
- Embassy Suites Hotel
- Holiday Inn Express
- Hampton Inn
- Homewood Suites
- Four Seasons Hotel
- Springhill Suites
- Courtyard by Marriott
- Residence Inn Houston
- JW Marriott
- Hyatt Regency Houston
- C. Baldwin, Curio Collection by Hilton

DOWNTOWN HOTELS

Red Line (Main Street)
Purple Line (Southeast Line)
Green Line (East End Line)

Yellow Cab - Six in the City
$6 Anywhere in Downtown

METRORail Lines

Green Route
MON-FRI 6:30am - 6:30pm
Every 7-10 minutes
THURS-FRI 6:30am - Midnight
SAT 9am - Midnight
SUN 9am - 6pm
Every 7-10 minutes

Orange Route
THURS-FRI 6:30am - Midnight
SAT 9am - Midnight
SUN 9am - 6pm
Every 7-10 minutes
Anti-Harassment Policy

NACE 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 CORROSION to abide by this Anti-Harassment Policy in all venues at CORROSION, 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 NACE 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, Conferences Manager, at +1 832-651-7229 on site immediately.

Alcohol Consumption Policy

NACE International is committed to the health and well-being of its staff, members, customers, event participants, and vendors. The association expects individuals who choose to consume alcohol at NACE-affiliated events to do so legally and in moderation. The use of alcoholic beverages by any participant at a NACE-affiliated event shall be in compliance with federal, state, and local laws. Persons who infringe upon the rights of others, who conduct themselves in a disorderly manner, or who damage or destroy property shall be subject to disciplinary and/or criminal action. All CORROSION participants are expected to abide by this alcohol policy in all venues at CORROSION, including ancillary events and official and unofficial social gatherings. Participants shall conform to the requirements of this policy and all other applicable NACE International policies, including but not limited to the NACE Code of Ethics and anti-harassment policies.
Minor Policy for NACE International Conferences

Children under the age of 15 are not permitted in the Expo, meetings, and symposia. Children over the age of 15 must be registered as guests and wear a badge at all times 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 in arms or front baby carrier (NO STROLLERS PERMITTED) by a registered NACE attendee. 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 symposia: To provide all NACE attendees an optimal learning environment, minors and guests are not permitted in technical meetings or the symposia. 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 set-up, 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. Child care is not available at the convention center; however, your hotel concierge may be able to assist you. Please note that NACE has no affiliation with these services.

Increase your company’s credibility, recognition, and respect in the field.

Become NIICAP accredited to set your company apart from the competition.

Designed and led by industry experts, the NIICAP auditing process serves to improve operations, reduce costs, increase visibility and opportunity, and pre-qualify prospective contractors, making it a vital tool for coatings contractors. These industry experts, along with the NIICAP team, walk contractors through the entire audit, making this a white-glove service that separates us from other programs.

Visit niicap.net to learn more about how a NIICAP accreditation can:
• Protect your assets from coatings failure
• Save money, time, and resources by specifying NIICAP
• Improve your visibility from a global leader in the industry, whether you’re an owner or a contractor
• Realize more coatings successes and less re-work by improving your internal processes

Stand out amongst your competitors and take the next step to achieve accreditation.
What's New at CORROSION 2020

FirstService “How To” Mini-Sessions
Monday – Thursday

Have questions about how to log in to your profile, access your grades, renew your certification, schedule your computer-based training exam, or just navigate your NACE profile? NACE’s FirstService team will be hosting an array of short tutorials throughout conference week to help answer some of the most frequently asked questions. Stop by the information kiosk located on Level 3 by the skybridge to the Hilton Americas Hotel to learn the “how to’s” and get your specific questions answered.

Selecting the Right Surface Preparation for Performance
Presented by David Hunter, Pond and Company

This forum discusses one of the least understood problems in the coatings industry: Properly specifying surface preparation for the environment that will give the performance desired. The forum will detail how surface preparation and desired performance are linked and the environment is critical in being included or understood so the materials can give the lifecycle desired. Case histories will be from various industries, highlighting production impact and solutions provided.

The State of Corrosion Today: Business Impact, Policy Opportunity and Technology Innovation
Presented by Christina Lomasney, Modumetal

Corrosion affects everything around us—our infrastructure, transportation, manufacturing, and environment. We know it is a costly and challenging problem. Yet, as industry insiders, how can we better understand the business risks brought forth by corrosion, and bridge the gap between those risks and solutions that will address this critical issue in a meaningful way?

Presented by Jessica Torrey, Materials and Corrosion Lab Bureau of Reclamation

The forum will consist of two primary topics: Industry experts will share best practices and lessons learned from their work with owners and operators in the water and wastewater industries. The presenters will also compare and contrast new and old technologies while discussing new and emerging trends.

New Symposia
Corrosion in Sweet and Slightly Sour Production Conditions
This symposium features technical papers on laboratory and/or field experience of CO₂/H₂S corrosion and mitigation in a hydrocarbon-containing environment.
Sponsoring Committee: TEG 059X
Chair: Ziru Zhang Vice Chair: Sudhakar Mahajanam

Innovations in Chemical and Mechanical Cleaning and Fouling/Corrosion Mitigation
This symposium features technical papers that provide fundamental insight into new and up-and-coming innovations in the field of chemical and mechanical cleaning. Innovations in this field include new chemistries, methods, applications or techniques, emerging equipment, and innovative partnerships. Case studies involving the use of the innovative technologies or chemistries at the field level, or laboratory scale initial testing methods may be included, as well as new ideas, which have yet to emerge on the scene.
Sponsoring Committee: TEG 188X
Chair: Roxanne Shank Vice Chair: Christopher Wiggins

Featured Speaker
Monday, March 16, 8 – 9:30 a.m.
Presented by Ryan Sitton, Texas Railroad Commissioner

New this year is the addition of a featured speaker for CORROSION 2020. We are pleased to announce Texas Railroad Commissioner (RRC) Ryan Sitton as a featured speaker at CORROSION 2020. This will be Commissioner Sitton’s first presentation to NACE members, and he will provide an update on the future of the oil and gas industry in the State of Texas and provide different perspectives on regulatory elements.

AICHE Process Safety Course
Sunday, March 15

Attend this comprehensive workshop to improve operational excellence and process safety at chemical process industry manufacturing sites. High Reliability Equipment and Interdependent High Reliability Teams in operations, maintenance, and engineering are needed to manage process risks. The Center for Chemical Process Safety Guidelines for Technical Management of Chemical Process Safety emphasize the importance of effectively engaging the entire workforce to achieve a successful process safety program. Front line workers rely on both process safety and occupational safety to stay safe. The workshop will focus on team culture, competencies, and conduct of operations. Additional details can be found at nacecorrosion.org.
Advances in Materials for Oil and Gas Production – Day 1
This symposium features technical papers that present advances in materials technology and research for oil and gas. 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 may also be included.
Sponsoring Committee: STG 32
Chair: Hernan Rincon           Vice Chair: Filippo Cappuccini

Biomedical Materials – Research in Progress
This RIP symposium is seeking abstracts that 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.
Sponsoring Committee: Research
Chair: Srinidhi Nagaraja           Vice Chair: Shiril Sivan

Combined-Effects Material Degradation Under Atmospheric Conditions
This symposium features technical papers on engineering materials designed to resist degradation from multiple stressors (e.g., corrosion, high-temperature, fatigue, etc.). The types and severities of stressors depend on the intended application and service life. For this reason, screening, qualification, and implementation of new materials can be a lengthy process. Despite exhaustive laboratory testing, some materials experience unexpected failures in service due to a combination of deleterious effects, which were either not anticipated or not captured in initial material evaluations. Recently, many industries have begun developing combined-effects test protocols that better replicate the combinatorial nature of stressors experienced in service. To document and share recent efforts in this area, this symposium will focus on technical approaches for evaluating combined-effects stressors under atmospheric conditions. Papers may address any combination of atmospheric corrosion with thermal, UV, chemical, and mechanical stressors. Papers cover any material type (metals, coatings, composites, etc.) in all industrial sectors. Topics of interest include—but are not limited to—laboratory testing, outdoor exposures, in-service evaluations, case studies, and modeling and simulation. Papers that address new combined-effects mechanisms and ways to reproduce those in a laboratory setting may be included.
Sponsoring Committee: TEG 189x
Chair: Kristen Williams           Vice Chair: Sarah Galyon-Dorman

Concrete and Architecture – Research in Progress
This RIPC symposium is seeking abstracts that cover the overall aspects of corrosion of steel in concrete as regard to building, construction, architecture, and infrastructure, including reinforced concrete structures, offshore an 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.
Sponsoring Committee: Research
Chair: David Bastidas             Vice Chair: Christopher Alexander

Corrosion in Nuclear Systems – Day 1
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 can include degradation mechanisms of structural materials and materials reliability issues encountered in nuclear power applications, including degradation management. Papers may also include advanced manufacturing methods being developed for nuclear plant component manufacture and deployment.
Sponsoring Committee: TEG 224X
Chair: Ziqing Zhai               Vice Chair: Vineeth Kumar Gattu

Corrosion Management – Implementation and Progress – Day 1
This symposium features technical papers on recent corrosion management implementations, lessons learned for these, and the development of new corrosion management philosophies.
Sponsoring Committee: STG 08
Chair: Hendrik J. Debruyne        Vice Chair: Robin D. Tems

Environmentally Assisted Cracking – Day 1
This symposium features technical papers related to understanding fundamental EAC mechanisms, including, but not limited to, hydrogen embrittlement, stress corrosion cracking, corrosion fatigue, liquid metal embrittlement, and so on. The papers may cover root cause failure analysis in service, lab testing methods, materials modeling, industry standards development, state-of-the-art EAC research reviews, and so on.
Sponsoring Committee: TEG 186X
Chair: Kasra Sotoudeh            Vice Chair: Arshad Bajvani

Flow Assurance in Oil and Gas from Inland to Subsea
This symposium contains technical papers on maintenance of flow assurance in deep water and inland oil and gas systems by controlling corrosion, scale, and related mechanisms.
Sponsoring Committee: TEG 202X
Chair: Wei Shi                Vice Chair: Ayman Gazawi
Symposia

Localized Corrosion – Mechanisms, Research Methods, Modeling and Control – Day 1
This symposium features technical papers in the area of localized corrosion that discuss mechanisms, traditional and novel research methodologies, modeling and monitoring approaches, real cases, and failure analysis as well as strategies to control it.
Sponsoring Committee: TEG 407X
Chair: Helmuth Sarmiento Klapper
Vice Chair: Mariano Alberto Kappes

Marine Corrosion – Research in Progress
This RIP symposium is seeking abstracts that cover all aspects of corrosion occurring in the marine environment. Fundamental aspects of material performance and degradation in contact with seawater or seawater aerosols are of interest. These topics can include, but are not limited to, corrosion mechanisms prevalent in seawater, such as localized corrosion or galvanic interactions, mechanical degradation, and mitigation strategies, such as coatings or surface treatments. Contributions may include experimental and modeling studies and should focus on recent results or research currently in progress.
Sponsoring Committee: Research
Chair: Derek Horton Vice Chair: Saba Navabzadeh Esmaeely

Recent Developments in Mineral Scales and Deposits Control Technologies – Day 1
This symposium features technical papers that discuss recent technology developments in controlling mineral deposits and scales in industrial, commercial, and institutional applications, which if not controlled, can lead to corrosion issues and fouling.
Sponsoring Committee: STG 11
Chair: Zahid Amjad Vice Chair: Miriam Barber

Recent Experiences with Austenitic and Duplex Stainless Steels – Day 1
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 successes, failures, material selection, fabrication, and new developments.
Sponsoring Committee: TEG 114X and TEG 116X
Chair: Lena Wegrelius Vice Chair: Nicole Kinsman

Solid Particle Erosion and Erosion-Corrosion
This symposium features technical papers on such subjects as experimental erosion/abrasion wear studies, advanced computational fluid dynamics erosion and erosion-corrosion modeling, mechanistic.empirical model development, technologies for erosion measurements/monitoring, erosion mitigation/management techniques, sand management, etc.
Sponsoring Committee: TEG 077X
Chair: Mazdak Parsi Vice Chair: Hadi Arabnejad

Offshore Cathodic Protection – Case Studies of New or Novel Designs or Subsea Inspection Techniques
This symposium features technical papers related to offshore/marine cathodic protection, specifically case studies, new or novel designs, or offshore survey technique case studies.
Sponsoring Committee: STG 30
Chair: Alex Delwiche Vice Chair: Kehinde Ogun

Progress in Laboratory Testing of Corrosion Inhibitors for Oil Field Applications
This symposium features technical papers related to the novel techniques and methodologies for evaluation of corrosion inhibitors in the lab, advances in quantitative evaluation of pitting corrosion, factors affecting quality of laboratory data, and gaps and challenges in lab-field transference.
Sponsoring Committee: TEG 253X
Chair: Alla Crabtree Vice Chair: Bruce Brown

Sour Corrosion
This symposium features technical papers on advances in sour corrosion in oil and gas production. The focus is on sour corrosion mechanisms, mitigation strategies, case histories, and best practices in corrosion management.
Sponsoring Committee: TEG 282X
Chair: Mohsen Achour Vice Chair: Frederick Osuweanye Pessu

Thermal and Cold Spray Coatings
This symposium features technical papers that cover all aspects of 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 results of basic and applied research on thermal spray processes and coating materials, including field experience on thermal spray coatings, materials, processes and strategies for corrosion control, etc. Contributions on 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. were also considered.
Sponsoring Committee: TEG 255X
Chair: Shiladitya Paul Vice Chair: James Weber

TUESDAY, MARCH 17

Advanced Electrochemical Methods – Research in Progress
This RIP symposium is seeking abstracts that 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 (SECM), scanning vibrating electrode technique (SVET), scanning Kelvin Probe force microscopy (SKPFM), scanning droplet cell microscopy (SDCM), and local electrochemical impedance spectroscopy (LEIS). This session will also cover “real time” spectroscopic methods used in corrosion monitoring such as online inductively coupled plasma-atomic emission spectroscopy (ICP-OES) and in situ corrosion investigations using either optical, x-ray, or electron-based methods.
Sponsoring Committee: Research
Chair: Sebastian Thomas Vice Chair: Rebecca Schaller
Symposia

Advances in Materials for Oil and Gas Production – Day 2
This symposium features technical papers that present advances in materials technology and research for oil and gas. 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 may also be included.
Sponsoring Committee: STG 32
Chair: Hernan Rincon Vice Chair: Filippo Cappuccini

Anodic and Cathodic Protection – Day 1
This symposium features technical papers regarding anodic and cathodic protection on ferrous materials in pipeline, oil, gas, and water systems.
Sponsoring Committee: STG 05
Chair: Dan Wagner Vice Chair: Stephen Ball

Control of Problematic Microorganisms in Oil and Gas Field Operations
This symposium features technical papers discussing treatments and monitoring techniques pertaining to the control of microbiological problems and biogenic H₂S in oil, water, and gas systems for upstream and downstream operations. Papers may include laboratory and/or field results.
Sponsoring Committee: TEG 266X
Chair: Torben Lund Skovhus Vice Chair: Jason S. Lee

Corrosion in Nuclear Systems – Day 2
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 can include degradation mechanisms of structural materials and materials reliability issues encountered in nuclear power applications, including degradation management. Papers may also include advanced manufacturing methods being developed for nuclear plant component manufacture and deployment.
Sponsoring Committee: TEG 224X
Chair: Ziqing Zhai Vice Chair: Vineeth Kumar Gattu

Corrosion in Supercritical Systems
This symposium features technical papers that address the measurement or assessment of degradation in any supercritical system, including especially supercritical water and supercritical carbon dioxide. Papers may be of a research or industrial nature.
Sponsoring Committee: TEG 121X
Chair: Yong Xiang Vice Chair: Shiladitya Paul

Corrosion in the Refining Industry
This symposium features technical papers on topics related to materials and corrosion issues within the refining industry. Topics explore failure analysis, case histories, and materials performance.
Sponsoring Committee: STG 34
Chair: Ivan Morales Vice Chair: Huang Lin

Corrosion Management Implementation and Progress – Day 2
This symposium features technical papers on recent corrosion management implementations, lessons learned for these, and the development of new corrosion management philosophies.
Sponsoring Committee: STG 08
Chair: Hendrik J. Debruyn Vice Chair: Robin D. Tems

Corrosion of Additively Manufactured Materials
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.
Sponsoring Committee: TEG 569X
Chair: Robert Badrak Vice Chair: Liu Cao

Direct Assessment
This symposium features technical papers covering new technologies and 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.
Sponsoring Committee: STG 35
Chair: Jorge Vasquez Vice Chair: Austina Matthias

Environmentally Assisted Cracking – Day 2
This symposium features technical papers related to understanding of fundamental EAC mechanisms including, but not limited to, hydrogen embrittlement, stress corrosion cracking, corrosion fatigue, liquid metal embrittlement, and so on. The papers may cover root cause failure analysis in service, lab testing methods, materials modeling, industry standards development, state-of-the-art EAC research reviews, and so on.
Sponsoring Committee: TEG 186X
Chair: Kasra Sotoudeh Vice Chair: Arshad Bajvani

Inhibitors – Vapor Transported (VCI) and Surface Coated Rust Preventive (RP)
This symposium features technical papers on novel applications, technical advances, test methods, and materials that perform as vapor-transported corrosion inhibitors and/or inhibitor coatings applied to metal surfaces to inhibit corrosion.
Sponsoring Committees: TEG 083X and 145X
Chair: Cliff Cracauer Vice Chair: Charles Phillips

Localized Corrosion Mechanisms, Research Methods, Modeling and Control – Day 2
This symposium features technical papers in the area of localized corrosion that discuss mechanisms, traditional and novel research methodologies, modeling and monitoring approaches, real cases, and failure analysis as well as strategies to control it.
Sponsoring Committee: TEG 407X
Chair: Helmuth Sarmiento Klapper Vice Chair: Mariano Alberto Kappes
Symposia

**Materials and Integrity in Oil Sands**
This symposium features technical papers on oil sands from owner-operators, vendors, consultants, and researchers. Areas of interest include (but are not limited to) corrosion, failures, wear, process, material selection, asset integrity, and can be related to steam-assisted gravity drainage, downhole, or surface equipment/facilities.  
**Sponsoring Committee: TEG 341X**  
Chair: Duane Serate  
Vice Chair: Matthew Krantz

**Nanomaterials and Coatings Technologies**
This symposium features technical papers on the nanomaterials and nanoscale characterization methods for understanding corrosion mechanisms and mitigating corrosion.  
**Sponsoring Committee: TEG 474X**  
Chair: Igor Kosacki  
Vice Chair: Joao Tedim

**Pits, Cracks and Crevices – Research in Progress**
This RIP symposium is seeking abstracts that 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 ongoing research, including occluded chemistries, electrochemical techniques, metallurgical influences, and mechanistic initiation/propagation studies are of particular interest. Prevention strategies of localized corrosion and cracking will also be considered if they do not fall within another session domain. Laboratory experimentation, computational modeling, and environment-specific case studies are welcome. Submissions should include the most recent results, accomplishments, and/or theories.  
**Sponsoring Committee: Research**  
Chair: Jason Lee  
Vice Chair: Jenifer Locke

**Real Time Corrosion Monitoring for Process Applications: Technology, Experiences, Case Studies**
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 were welcomed.  
**Sponsoring Committee: STG 62**  
Chair: Clay Brittain  
Vice Chair: Hui Li

**Recent Developments in Mineral Scales and Deposits Control Technologies – Day 2**
This symposium features technical papers that discuss recent technology developments in controlling mineral deposits and scales in industrial, commerical, and institutional applications, which if not controlled, can lead to corrosion issues and fouling.  
**Sponsoring Committee: STG 11**  
Chair: Zahid Amjad  
Vice Chair: Miriam Barber

**Recent Experiences with Austenitic and Duplex Stainless Steels – Day 2**
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 successes, failures, material selection, fabrication, and new developments.  
**Sponsoring Committees: TEG 114X and TEG 116X**  
Chair: Lena Wegrelius  
Vice Chair: Nicole Kinsman

**Role of Sustainability – Research in Progress**
This RIP symposium is seeking abstracts that cover long-term projections (20+ years) of climate change, biodiversity loss, environmental degradation, and resource depletions that are triggering shifts across the energy, manufacturing, and agricultural industries. Whereas corrosion management can seem disconnected from sustainability initiatives, in fact, effective materials management is a critical method for reducing waste, preventing damage, and decreasing the cost of operations. Research that provides quantitative analysis of sustainability related metrics for materials management activities related to corrosion, innovative new methods for corrosion mitigation, such as green inhibitors and coatings, or investigates corrosion-related issues that may arise in the low carbon energy future (renewable and/or nuclear industries) are of specific interest.  
**Sponsoring Committee: Research**  
Chair: Christopher Taylor  
Vice Chair: TBD

**AC Interference, AC Induced Corrosion, AC Risk Assessment, Monitoring and Mitigation**
This symposium features technical papers on alternating current (AC) interference on buried pipelines. Specific topics include analysis of AC interference, AC corrosion excavations and failure analysis, AC risk assessment, monitoring, and mitigation.  
**Sponsoring Committee: STG 05**  
Chair: Shane Finneran  
Vice Chair: Stephen Ball

**Anodic and Cathodic Protection – Day 2**
This symposium features technical papers regarding anodic and cathodic protection on ferrous materials in pipeline, oil, gas, and water systems.  
**Sponsoring Committee: STG 05**  
Chair: Dan Wagner  
Vice Chair: Kyle Platt

**Cathodic Protection of Reinforced Concrete and Steel Frame Structures: A Retrospective on Technology**
This symposium features technical papers on advances in cathodic protection (CP) and its application to reinforced concrete (RC) and steel frame construction. Papers on repaired structures or system technology where projects have had a 20+ year service life, which address the history of technology and lessons learned from early systems and how technology has changed or improved current systems, and new advancements in research presented in the context of historic performance were preferred. Other relevant papers on CP and electrochemical remediation of RC were considered as well.  
**Sponsoring Committee: TEG 043X**  
Chair: Gina Crevello  
Vice Chair: Javier Balma

**Control of Corrosion in Oil and Gas with Inhibitors – Day 1**
This symposium will include technical papers on the study of the application of corrosion inhibitors and/or scale/deposit inhibitors and their mechanisms of inhibition.  
**Sponsoring Committee: TEG 184X**  
Chair: Fernando Farelas  
Vice Chair: Jeremy Moloney
Symposia

Corrosion in Sweet and Slightly Sour Production Conditions – Day 1
This symposium features technical papers on laboratory and/or field experience of CO₂/H₂S corrosion and mitigation in a hydrocarbon-containing environment.
Sponsoring Committee: TEG 059X
Chair: Ziru Zhang  Vice Chair: Sudhakar Mahajanam

Corrosion Issues in Military Equipment and Facilities
This symposium features 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.
Sponsoring Committee: STG 40
Chair: Wes Barfield  Vice Chair: Robert Mason

Corrosion Issues in the Pulp, Paper and Biomass Industries
This symposium features technical papers related to the pulp, papermaking, and biomass conversion processes. These may include case studies, research into new materials or methods, industry corrosion problems and their solutions, new materials, or other topics related to pulp and paper.
Sponsoring Committee: STG 38
Chair: Matthew Tunnicliffe  Vice Chair: Catherine Noble

Emergent Materials – Research Topical Symposium
The Research Topical Symposium is seeking abstracts that provide fundamental insight into the processing-structure-corrosion performance relationships of emergent alloys and materials fabricated by advanced manufacturing. Topics of interest include, but are not limited to, nanocrystalline, amorphous, and compositionally complex alloys, along with additively manufactured metals and composites. Contributions highlighting materials-by-design concepts and approaches for corrosion resistance are encouraged.
Sponsoring Committee: Research
Chair: Eric Schindelholz  Vice Chair: Rajeev Gupta

Innovations in Chemical and Mechanical Cleaning
This symposium features technical papers that provide fundamental insight into new and up-and-coming innovations in the field of chemical and mechanical cleaning. Innovations in this field include new chemistries, methods, applications or techniques, emerging equipment, and innovative partnerships. Case studies involving the use of the innovative technologies or chemistries at the field level, or laboratory scale initial testing methods may be included, as well as new ideas that have yet to emerge on the scene.
Sponsoring Committee: TEG 188X
Chair: Roxanne Shank  Vice Chair: Christopher Wiggins

Marine Corrosion – Ships and Structures – Day 1
This symposium features technical papers on the latest development and applications of metals, alloys, marine coatings, and cathodic protection systems for infrastructures and assets in or near marine environments.
Sponsoring Committee: STG 44
Chair: Abdulhameed Al-Hashem  Vice Chair: Moavin Islam

Microbiologically Influenced Corrosion
This symposium features technical papers about microbiologically influenced corrosion (MIC), including the mechanisms by which MIC occurs, the impact of MIC on various industries and environments, monitoring and management techniques, and treatment to mitigate the impact of MIC.
Sponsoring Committee: TEG 187X
Chair: Nora Eibergen  Vice Chair: Tony Poulissichidis

Oil and Gas Coating Technology – Day 1
This symposium features technical papers on the following themes: (1) high temperature (>80 °C) FBE pipeline coatings, (2) impact of salt removal chemicals on coating performance, (3) offshore deck coatings, (4) cathodic disbondment mechanism, (5) long life (25 years) offshore coatings, (6) coatings for offshore pipe support, and (7) steel surface roughness characterization and impact on coating performance.
Sponsoring Committees: STG 02 and 03
Chair: Benjamin T.A. Chang  Vice Chair: Andy Bodington

Pipeline Integrity – Day 1
This symposium features technical papers on all aspects of pipeline integrity that can include pipeline integrity management, inspection, assessment, mitigation, rehabilitation, operational aspects, regulatory issues, present and upcoming technologies, methods, experiences, case studies, etc.
Sponsoring Committee: TEG 267X
Chair: Matthew Ellinger  Vice Chair: Andrew Lutz

Power Industry Corrosion
This symposium is seeking technical papers on corrosion causes, issues, studies, experiences, and/or management practices, including coatings on steel structures and their related components in the power industry. Exposures include below grade, transition zone, and atmospheric corrosion of weathering, galvanized, and other coated steel structures.
Sponsoring Committee: STG 41
Chair: Jon H. Brasher  Vice Chair: Graig Cilluffo

Recent Experiences with Nickel, Titanium, Zirconium and Other Corrosion-Resistant Alloys
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.
Sponsoring Committee: STG 39
Chair: Ralph Baessler  Vice Chair: Ajit Mishra

Subsea Materials vs. Hydrogen Embrittlement and Stress Corrosion Cracking – Day 1
This symposium features technical papers on research, development, and processing of high-strength ferrous and nonferrous materials and subsea cathodic protection (CP) and use conditions/adaptations that can be used to optimize resistance to hydrogen embrittlement and stress corrosion cracking when exposed to seawater environments with or without CP.
Sponsoring Committee: STG 32
Chair: Russell Kane  Vice Chair: Herman Amaya
**Symposia**

The Digital Asset Transformation – Driving Value for Corrosion and Asset Integrity Management
This symposium features technical papers on the benefits of recent developments and industry trends in digital technologies for corrosion and integrity management. Many industry sectors are seeking to increase efficiency and reduced costs through the application of digitalization and technologies, such as 3D visualization and the Internet of Things (IoT). The transforming potential in big data capture, information management and analytics, and the possibilities for implementing AI (artificial intelligence), all of which can reduce risk and facilitate better decision making, are fully applicable to the management of corrosion and asset integrity regardless of industry type. The symposium will endeavor to include papers from different industries covering a broad range of topics on these new developments from both technology providers and end users/asset operators.

Sponsoring Committee: STG 08
Chair: Cecilie A. Haarseth   Vice Chair: Christopher Houghton

THURSDAY, MARCH 19

Control of Corrosion in Oil and Gas with Inhibitors – Day 2
This symposium will include technical papers on the study of the application of corrosion inhibitors and/or scale/deposit inhibitors and their mechanisms of inhibition.

Sponsoring Committee: TEG 184X
Chair: Fernando Farelas   Vice Chair: Jeremy Moloney

Corrosion in Sweet and Slightly Sour Production Conditions – Day 2
This symposium features technical papers on laboratory and/or field experience of CO2/H2S corrosion and mitigation in a hydrocarbon-containing environment.

Sponsoring Committee: TEG 059X
Chair: Ziru Zhang   Vice Chair: Sudhakar Mahajanam

Marine Corrosion – Ships and Structures – Day 2
This symposium features technical papers on the latest development and applications of metals, alloys, marine coatings, and cathodic protection systems for infrastructures and assets in or near marine environments.

Sponsoring Committee: STG 44
Chair: Abdulhameed Al-Hashem   Vice Chair: Moavin Islam

Nonmetallic Materials for Use in Oil and Gas Production
This symposium features technical papers on nonmetallic materials for use in oil and gas production.

Sponsoring Committee: STG 33
Chair: Robert Lauer   Vice Chair: Jeffrey Hamilton

Oil and Gas Coating Technology – Day 2
This symposium features technical papers on the following themes: (1) high temperature (>80 °C) FBE pipeline coatings, (2) impact of salt removal chemicals on coating performance, (3) offshore deck coatings, (4) cathodic disbondment mechanisms, (5) long life (25 years) offshore coatings, (6) coatings for offshore pipe support, and (7) steel surface roughness characterization and impact on coating performance.

Sponsoring Committees: STG 02 and 03
Chair: Benjamin T.A. Chang   Vice Chair: Andy Bodington

Pipeline Integrity – Day 2
This symposium features technical papers on all aspects of pipeline integrity that include pipeline integrity management, inspection, assessment, mitigation, rehabilitation, operational aspects, regulatory issues, present and upcoming technologies, methods, experiences, case studies, etc.

Sponsoring Committee: TEG 267X
Chair: Matthew Ellinger   Vice Chair: Andrew Lutz

Subsea Materials vs. Hydrogen Embrittlement and Stress Corrosion Cracking – Day 2
This symposium features technical papers on research, development, and processing of high-strength ferrous and nonferrous materials and subsea cathodic protection (CP) and use conditions/adaptations that can be used to optimize resistance to hydrogen embrittlement and stress corrosion-related cracking when exposed to seawater environments with or without CP.

Sponsoring Committee: STG 32
Chair: Russell Kane   Vice Chair: Herman Amaya

Top-of-Line Corrosion
This symposium features technical papers on mechanism, modeling, field experience, monitoring, and mitigation (design and inhibition).

Sponsoring Committee: TEG 515X
Chair: Dr. Thunyaluk Pojtanabuntoeng   Vice Chair: Dr. Zineb Belarbi

Under Deposit Corrosion
This symposium features technical papers related to the prediction, assessment, and management of under-deposit corrosion. While the focus is on facilities in hydrocarbon production, transportation and processing, submissions regarding under-deposit corrosion of infrastructure, and science-only papers may be included.

Sponsoring Committee: TEG 092X
Chair: Sandra Hernandez   Vice Chair: Trevor Place
Forums

Please note that the dates given for these forums are tentative. The lengths of some forums may be shortened. For the most up-to-date listing, visit www.nacecorrosion.org.

MONDAY, MARCH 16

Presented by Jessica Torrey, Materials and Corrosion Lab Bureau of Reclamation

The forum will consist of two primary topics:

• Industry experts will share best practices and lessons learned from their work with owners and operators in the water and wastewater industries.

• The presenters will also compare and contrast new and old technologies while discussing new and emerging trends and technologies in the water and wastewater industries.

Leadership: Activate the Leader Within
Presented by John Todd, KTA-Tator, Inc.; and Elaine Bowman, NACE International

What will it take for you to become the leader you want to be? Training obviously comes to mind, but training is often an academic event that teaches ideas, approaches, and tools. Leadership, however, is a complex skill that is developed over time and should be approached like building a habit; a few training sessions will not lead to lasting results. The solution is easier than you may think and requires real-world application of conceptual ideas. Leaders must commit to ongoing efforts for development of their leadership abilities. This forum will provide guidance to help you activate the leader already within you and your team by giving you the confidence to lead and influence no matter where you are in your career today.

Selecting the Right Surface Preparation for Performance
Presented by David Hunter, Pond and Co.

This forum discusses one of the least understood problems in the coatings industry: Properly specifying surface preparation for the environment that will give the performance desired. The forum will detail how surface preparation and desired performance are linked and the environment is critical in being included or understood so the materials can give the lifecycle desired. Case histories will be presented from various industries, highlighting production impact and solutions provided.

The State of Corrosion Today: Business Impact, Policy Opportunity and Technology Innovation
Presented by Christina Lomasney, Modumetal

Corrosion affects everything around us—our infrastructure, transportation, manufacturing, and environment. We know it is a costly and challenging problem. Yet, as industry insiders, how can we better understand the business risks brought forth by corrosion, and bridge the gap between those risks and solutions that will address this critical issue in a meaningful way?

Join a panel of industry leaders from emerging businesses and global corporations alongside policymakers and technologists for a conversation on the business impact of corrosion today. Led by Christina Lomasney, panelists from a variety of industries will share a “state of the industry” update regarding corrosion costs, risks, and solutions from their unique perspectives. These insights will drive a moderated discussion about current and emerging challenges, and how policy and technology can be leveraged together for a corrosion-free future. They will discuss how industries can innovate and achieve infrastructure and components that are second to none, at a cost sustainable for generations.

TUESDAY, MARCH 17

Battle Against Corrosion in Latin America
Presented by Oladis de Rincon, CEC – Universidad del Zulia, Venezuela; Marianella Ojeda, Promigas Colombia; and Gustavo Romero, PENSPE, Mexico

The study of corrosion and its prevention in Latin America had its initial epicenter at universities and research institutes. In countries such as Argentina, Brazil, Mexico, and Venezuela, important developments were fostered in these institutes that became the seeding places for both new technical development and for new career opportunities. The work was always done in collaboration with international partners and with the presence of NACE influence through various means.

Local NACE sections also emerged around those efforts, which allowed the work to spread within countries and across borders to other neighboring countries. From the overall effort, the result has been a new generation of local leaders in the field, graduate and post graduate studies, abundant research, development of the corrosion industry, and continuous support toward battling corrosion and protecting society from its impact.

This forum will highlight the influence of research institutes and universities on the battle against corrosion in Latin America, as well as the significant technical progress made and the new upcoming leaders who are influencing the current dynamic in this battle.

PHMSA Pipeline Safety Forum
Presented by Kevin Garrity, Mears; and Alan Mayberry, PHMSA

The Pipeline and Hazardous Materials Safety Administration (PHMSA) and NACE 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 and discuss proposed rules that may be considered in 2020. Additionally, you’ll have the opportunity to hear from fellow members and stakeholders on the latest trends in pipeline safety.

WCO Forum – Corrosion in Low-Carbon Energies (Renewables, Nuclear, and Carbon Capture): Issues and Solutions

Over the past decades, low-carbon energies have emerged as a strategic priority to decrease carbon dioxide (CO2) releases in the atmosphere to limit global warming. The Intergovernmental Panel on Climate Change (IPCC), a United Nations body for assessing the science related to climate change, includes as low-carbon energies: renewable energies, nuclear energy, and carbon capture and storage.
The development of these forms of energy gives rise to corrosion issues. For instance, the capture and storage of carbon technology needs improvement related to the understanding of the reaction mechanisms and interactions with materials used in gaseous, dissolved, dense phase, and supercritical CO2. The development of geothermal energy is also linked to the selection of appropriate materials. Near-shore and offshore wind turbines face issues related to seawater corrosion along with seawater turbines. In nuclear energy, corrosion issues are mainly related to safety and availability. For solar energies, corrosion phenomena are also encountered both in photovoltaic and in thermal solar technologies.

This interactive forum provides the opportunity to learn and exchange information on corrosion issues and remedies in the new and developing field of “green energies.”

**WEDNESDAY, MARCH 18**

**A Tour to West Asia and Africa: Corrosion Management Challenges and Opportunities in the Most Fascinating Area in the World**

*Presented by Gasem Fallatah, NACE International*

The Middle East and Africa region is exposed to harsh environments that include constant exposure to high temperatures, salinity, and humidity levels—all factors that create unique corrosion management challenges. These challenges have required a faster rate of research for corrosion control methods to counteract these challenges, making this region a hub for innovative infrastructure development and mega projects that attract potential investors. With this forum, corrosion experts from the Middle East and Africa will showcase multimedia presentations addressing new forms of corrosion problems being faced. In addition, they will take a more in-depth look at the utilization of nonmetallic materials/applications, knowledge transfer and retention, and the digital transformation within corrosion control. This forum is designed in an exhibition style setting and aims to take you through a technical, informative “tour” of the area. Join us on an escape to the Middle East and Africa region complete with live music, regional cuisine, and featuring exciting activities from across the region.

**Corrosion Under Insulation: Materials, Fundamental, Identification and Mitigation**

*Presented by David Hunter, Pond Co.; and Bob Bunn, Johns Manville*

This forum will discuss the materials and mechanisms of corrosion under insulation (CUI), and how to identify and prevent or mitigate CUI problems. Materials and methods of identification will be discussed, as well as using risk-based methods for dealing with large areas where visual inspection becomes cost prohibitive. Case histories will be from various industries, highlighting production impact and solutions provided.

**IMPACT PLUS: The Journey Toward Improved Corrosion Management Practices for Many Companies**

*Presented by Elaine Bowman, NACE International*

Learn how many companies within the corrosion industry are finding IMPACT PLUS to be the method for improving corrosion management practices within their organizations. In addition, users of IMPACT PLUS have found that this one-of-a-kind corrosion management tool provides an easy way for their organizations to identify gaps in their corrosion management practices and delivers a method for roadmap creation leading to higher performance. Forum attendees will learn how some organizations have utilized IMPACT PLUS to create corrosion management language and structure that ensures communication throughout all levels of their organizations.

**Premature Coating Failures – Common and Uncommon Causes and How to Investigate Coating Failures When They Occur**

*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.

**Thermal and Cold Spray Coatings – Processes, Applications and Challenges**

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

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, and aerospace, etc.
Corrosion has been reported inside hollow steel monopile and Biofouling Control, Florida Institute of Technology
Presented by Monica M. Maher and Geoff Swain, Center for Corrosion Innovation Theater (Booth 311)
1:15 to 2 p.m.
Location: Exhibit Hall C/

Offshore Monopiles
Corrosion Control and Ecosystems Enhancement for

The session will cover the key benefits of the Hexcorder Pro, including:

• Performing DCVG and CIPS simultaneously with all data gathered at the same geographic location and at the same time with the exact same field conditions instead of two separate conventional surveys.
• All equipment is fully GPS equipped, enabled, and data integrated.
• No special software required—you already own any software you need!
• The Hexcorder Pro is built by corrosion engineers for corrosion engineers specifically designed to do nothing but pipeline integrity surveys.

Corrosion Control and Ecosystems Enhancement for Offshore Monopiles
Location: Exhibit Hall C/MP Innovation Theater (Booth 311)
1:15 to 2 p.m.
Presented by Monica M. Maher and Geoff Swain, Center for Corrosion and Biofouling Control, Florida Institute of Technology
Corrosion has been reported inside hollow steel monopile foundations used to support offshore wind-powered turbines. This research investigated incorporating perforations in the monopile walls that allow the free flow of ambient seawater into the interior, the installation of cathodic protection, and enable the interior structure to provide a habitat for marine life. Partially submerged steel pipes with different treatments were deployed. The results demonstrated that a cathodically protected perforated monopile structure creates an environment with more favorable corrosion mitigation and water chemistry compared to a sealed structure. Furthermore, the perforated cathodically protected pipe recruited a diverse population of settled and mobile organisms.

Leveraging Water Repellency Technology to Mitigate Corrosion Under Insulation Challenges
Location: Exhibit Hall C/MP Innovation Theater (Booth 311)
2:15 to 3 p.m.
Presented by Jack Blundell, ROCKWOOL Technical Insulation
The task of mitigating corrosion under insulation (CUI) is an industry challenge. It is important to choose an insulation material with key characteristics that help prevent water from taking hold of the system. Wet insulation offers reduced performance and water trapped under or in the insulation material, which may cause corrosion of unprotected metal. While stone (mineral) wool insulation is frequently used, the significant variations of water repellency properties within the product family are not well understood, since stone wool is treated with different types of additives to achieve water repellency.
As a distinguished recipient of the 2019 MP Corrosion Innovation of the Year Award, ROCKWOOL Technical Insulation's ProRox with WR-Tech (Water Repellency Technology) puts our stone wool insulation truly in a “class of its own.” WR-Tech incorporates a revolutionary, coating-friendly and water repellent binder technology (an inorganic resin additive) that coats each individual fiber of our stone wool pipe insulation during the production process, to help reduce and mitigate the harmful effects of CUI.
Being the world’s largest manufacturer of stone wool insulation, it is our desire to not only educate the industry about the water repellency of insulation, but to also innovate and continuously improve the performance of insulation materials. This presentation is intended to educate the audience on the water repellency properties of mineral wool products with different types of hydrophobic treatment, as well as the effects on corrosion. It will specifically highlight our innovative WR-Tech material, which offers superior water repellency and moisture dissipation performance.

Contractor Awards Program
Location: Exhibit Hall E/Corrosive Chronicles Theater (Booth 2407)
Noon to 1 p.m.
CoatingsPro Magazine will again recognize industry excellence in the application of commercial and industrial high-performance coatings with the fourth annual Contractor Awards Program.
Join us as we announce the accomplishments of the 2020 winners in these six categories: Commercial Concrete, Commercial Roof, Industrial Concrete, Industrial Steel, Specialty Project, and Contractor/Crew MVP. For more information, visit www.coatingspromag.com/contractor-awards.
Admission to the Protective Coatings Workshop is also included with a paid full conference registration or with a Tuesday or Wednesday registration fees: NACE Member Price: $199 USD; Nonmember Price: $249 USD

The Protective Coatings Workshop is supported by CoatingsPro Magazine, INSPECT This, and the Master Painters Institute.

Protective Coatings Workshop

March 17-18 | Exhibit Hall

Want to stay current on the latest coatings developments and technologies available?

NACE International and the NACE Coatings Council are excited to announce the return of the Protective Coatings Workshop at CORROSION 2020. 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.

This year’s exciting new topics include:

- Robotics in inspection
- Virtual reality in training and testing
- The economics of coatings and coatings inspection
- Coatings in wind farm and offshore wind environments
- Avoiding premature failures
- Surface preparation standards and rust grades
- Scanning dry film thickness measurement, equipment, and procedures
- Understanding how coatings adhere to substrates
- Wet abrasive blast cleaning
- Corrosion under insulation (CUI)

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

Registration to the Protective Coatings Workshop includes:

- Access to the workshop for both days
- Access to the CORROSION 2020 Exhibit Hall on Tuesday and Wednesday
- Access to the Coatings Experience
- Attendance to the CoatingsPro Contractor Awards Program
- Lunch on Tuesday

Registration fees: NACE Member Price: $199 USD; Nonmember Price: $249 USD

Admission to the Protective Coatings Workshop is also included with a paid full conference registration or with a Tuesday or Wednesday one-day or multi-day conference registration.

The Protective Coatings Workshop is supported by CoatingsPro Magazine, INSPECT This, and the Master Painters Institute.
FROM SPEC TO PROTECT

LEGENDARY PROTECTION: UP TO STANDARD. UP TO SPEED.

Protecting the Golden Gate Bridge – and your next project – requires specification-compliant coatings, consistent formulations, efficient application technology and just-in-time distribution.

We will help you extend the service life of vital concrete or steel transportation infrastructure. And whether you’re an asset owner or applicator, you’ll move faster – with our fast-drying zinc-rich primers and high-solids coatings that accelerate shop throughput, eliminate application steps and cut road closure times.

Contact us. We’ll get you up to speed.
Technical Committee Information

Welcome to NACE International Technical Committees!

NACE invites you to participate in the CORROSION 2020 Technical Coordination Committee Task Groups. There has never been a better time to have your voice heard at NACE, and all full conference registrants are welcome to participate! If you’re new to technical committees at NACE, do not miss Technical Committees 101 on Sunday, March 15 and Monday, March 16 from 9 to 10 a.m. Learn the ropes, see what the technical committees are all about, and become invigorated in the decision-making process.

General NACE International Technical Committees Information

NACE technical committees scheduled to meet during CORROSION 2020 are listed on the following pages. For the most up-to-date technical committee meeting listing with the exact meeting times, visit the CORROSION 2020 conference web site at [www.nacecorrosion.org](http://www.nacecorrosion.org).

All technical committee meetings are open to registered members and nonmembers at CORROSION 2020. Persons interested in joining a technical committee may contact the Technical Activities Division at NACE headquarters for additional information (+1 281-228-6264).

IMPORTANT NOTICE

Committees are organized by Specific Technology Groups (STGs) and listed numerically by Technology Exchange Group (TEG), Task Group (TG), and Work Group (WG). The number in parentheses are additional sponsor STGs, if any.

- Following each TEG and TG title is a three-digit number (e.g., 049). This is the committee designation. Note that TEG designations are always followed by an X.
- The day of the week each committee is meeting is shown following the committee designation.
- The matrix structure of NACE technical committees is designed to bring together experts from various industries who are concerned with a specific technology and want to give input.
- Note that the following schedule only indicates days that the STGs meet; see [www.nacecorrosion.org](http://www.nacecorrosion.org) for specifics on TEGs, TGs, and WGs.

For more information, visit [www.nace.org/jointcc](http://www.nace.org/jointcc).
## Technical Committee Meetings

| STG 01 Day 1 | STG 01 | Monday |
| STG 01 Day 2 | STG 01 | Tuesday |

### COATINGS AND LININGS, PROTECTIVE: ATMOSPHERIC—STG 02

| STG 02 Day 1 | STG 02 | Monday |
| STG 02 Day 2 | STG 02 | Tuesday |
| STG 02, 03, 04 | STG 02 | Thursday |

### COATINGS AND LININGS, PROTECTIVE: IMMERSION AND BURIED SERVICE—STG 03

| STG 03 Day 1 | STG 03 | Sunday |
| STG 03 Day 2 | STG 03 | Monday |
| STG 03 Day 3 | STG 03 | Tuesday |
| STG 03 Day 4 | STG 03 | Wednesday |
| STG 03 Day 5 | STG 03 | Thursday |
| STG 02, 03, 04 | STG 03 | Thursday |

### COATINGS AND LININGS, PROTECTIVE: SURFACE PREPARATION—STG 04

| STG 04 Day 1 | STG 04 | Wednesday |
| STG 02, 03, 04 | STG 04 | Thursday |

### CATHODIC/ANODIC PROTECTION—STG 05

| STG 05 Day 1 | STG 05 | Sunday |
| STG 05 Day 2 | STG 05 | Monday |
| STG 05 Day 3 | STG 05 | Tuesday |
| STG 05 Day 4 | STG 05 | Wednesday |
| STG 05 Day 5 | STG 05 | Thursday |

### CLEANING, CHEMICAL AND MECHANICAL—STG 06

| STG 06 | STG 06 | Sunday |

### CORROSION MANAGEMENT—STG 08

| STG 08 | STG 08 | Sunday |

### NONMETALLIC MATERIALS OF CONSTRUCTION—STG 10

| STG 10 Day 1 | STG 10 | Monday |
| STG 10 Day 2 | STG 10 | Tuesday |
| STG 10 Day 3 | STG 10 | Wednesday |
| STG 10 Day 4 | STG 10 | Thursday |
### Technical Committee Meetings

#### OIL AND GAS PRODUCTION—CORROSION AND SCALE INHIBITION—STG 31

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#### OIL AND GAS PRODUCTION—METALLURGY—STG 32

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<tr>
<td>Joint Meeting IOGP 15156 (ISO/TC 67/WG 7) + TG 299</td>
<td>STG 32</td>
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#### OIL AND GAS PRODUCTION—NONMETALLICS AND WEAR COATINGS (METALLIC)—STG 33

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#### PETROLEUM REFINING AND GAS PROCESSING—STG 34

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#### PIPELINES, TANKS, AND WELL CASINGS—STG 35

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#### PROCESS INDUSTRY—MATERIALS PERFORMANCE IN CHEMICALS—STG 36

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#### PROCESS INDUSTRY—PULP, PAPER, AND BIOMASS CONVERSION—STG 38

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# CORROSION 2020

## Technical Committee Meetings

### PROCESS INDUSTRIES—MATERIALS APPLICATIONS AND EXPERIENCES—STG 39

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### MILITARY AND AEROSPACE SYSTEMS AND FACILITIES—STG 40

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### MARINE CORROSION: SHIPS AND STRUCTURES—STG 44

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<thead>
<tr>
<th>Name</th>
<th>Committee(s)</th>
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<tbody>
<tr>
<td>STG 44 Day 1</td>
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<td>STG 44 Day 2</td>
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<td>STG 44 Day 3</td>
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### POLLUTION CONTROL, WASTE INCINERATION, AND PROCESS WASTE—STG 45

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<tr>
<th>Name</th>
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<tr>
<td>STG 45</td>
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### CORROSION IN MINING AND MINERAL PROCESSING—STG 47

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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>STG 47</td>
<td>STG 47</td>
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### CORROSION MECHANISMS—STG 60

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<tr>
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<tr>
<td>STG 60 Day 1</td>
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<td>STG 60 Day 2</td>
<td>STG 60</td>
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<tr>
<td>STG 60 Day 3</td>
<td>STG 60</td>
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### INHIBITION—CORROSION AND SCALING—STG 61

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<tr>
<th>Name</th>
<th>Committee(s)</th>
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<td>STG 61 Day 1</td>
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<td>STG 61 Day 2</td>
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<tr>
<td>STG 61 Day 3</td>
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The **MP Buyers Guide** is an exclusive directory of manufacturers, suppliers, and consultants worldwide that provide products and services for the prevention and control of corrosion. To access the online version of the **MP Buyers Guide**, as well as add or edit your company's listing, please go to [www.mpbuyersguide.com](http://www.mpbuyersguide.com).
### Administrative Meetings

#### ADMINISTRATIVE MEETINGS

<table>
<thead>
<tr>
<th>Name</th>
<th>Day</th>
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<tbody>
<tr>
<td>NACE Foundation Board of Directors</td>
<td>Friday</td>
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<tr>
<td>NACE Board of Directors</td>
<td>Saturday</td>
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<tr>
<td>Area Coordination Committee</td>
<td>Sunday</td>
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<tr>
<td>Annual Conference Program Committee Session I</td>
<td>Sunday</td>
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<tr>
<td><em>Materials Performance</em> Editorial Advisory Board</td>
<td>Sunday</td>
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<tr>
<td>Publications Activities Committee</td>
<td>Sunday</td>
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<tr>
<td>Technical Coordination Committee (TCC) Session I</td>
<td>Sunday</td>
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<tr>
<td>NACE Institute—Specialty Board of Oil and Gas Production and Process Facility Certifications</td>
<td>Monday</td>
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<tr>
<td>Education Activities Committee</td>
<td>Monday</td>
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<tr>
<td>Awards Committee</td>
<td>Monday</td>
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<tr>
<td>NACE Institute—Specialty Board for Pipeline Certifications</td>
<td>Monday</td>
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<tr>
<td>Past Presidents Council</td>
<td>Monday</td>
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<tr>
<td><em>CORROSION</em> Journal Editorial Board</td>
<td>Monday</td>
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<tr>
<td>NACE Institute—Specialty Board of Protective Coatings Certifications</td>
<td>Monday</td>
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<tr>
<td>Policy Committee</td>
<td>Monday</td>
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<tr>
<td>NACE Institute Policy and Practices Committee</td>
<td>Tuesday</td>
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<tr>
<td>TCC Planning Committee</td>
<td>Tuesday</td>
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<tr>
<td>Internal Corrosion Subcommittee</td>
<td>Tuesday</td>
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<tr>
<td>Pipeline Subcommittee</td>
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<tr>
<td>NACE International Institute Certification Commission</td>
<td>Wednesday</td>
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<tr>
<td>Coating Inspector Program (CIP) Subcommittee</td>
<td>Wednesday</td>
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<tr>
<td>Annual Conference Program Committee (ACPC) Session II</td>
<td>Wednesday</td>
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<tr>
<td>NIICAP Oversight Board</td>
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<tr>
<td>Cathodic Protection Subcommittee</td>
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<tr>
<td>Exhibits Committee</td>
<td>Thursday</td>
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<tr>
<td>NACE International Institute Board of Directors</td>
<td>Thursday</td>
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<tr>
<td>Conferences and Exposition Activities Committee (CEAC)</td>
<td>Thursday</td>
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<tr>
<td>Research Committee</td>
<td>Thursday</td>
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<tr>
<td>TCC Session II</td>
<td>Thursday</td>
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<tr>
<td>Technical and Research Activities Committee (TRAC)</td>
<td>Thursday</td>
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#### ISO MEETINGS

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<thead>
<tr>
<th>Name</th>
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<tr>
<td>NACE MR0175/ISO 15156 Maintenance Panel</td>
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<td>NACE MR0175/ISO 15156 Maintenance Agency</td>
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<td>ISO TC 35 TAG</td>
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<td>ISO TC 156 TAG</td>
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### Other Meetings

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<tbody>
<tr>
<td>Western Area Board of Trustees</td>
<td>Sunday</td>
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<tr>
<td>Latin American Area Board of Trustees</td>
<td>Sunday</td>
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<tr>
<td>East Asia and Pacific Rim Area Board of Trustees</td>
<td>Sunday</td>
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<tr>
<td>General Membership</td>
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<tr>
<td>Central Area Board of Trustees</td>
<td>Monday</td>
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<tr>
<td>Eastern Area Board of Trustees</td>
<td>Monday</td>
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<tr>
<td>TCC 101 Session 1</td>
<td>Monday</td>
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<tr>
<td>Student Poster Orientation</td>
<td>Monday</td>
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<tr>
<td>NACE U Student Meeting</td>
<td>Monday</td>
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<td>Fellows Breakfast</td>
<td>Tuesday</td>
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<tr>
<td>Northern Area Board of Trustees</td>
<td>Tuesday</td>
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<tr>
<td>Plenary Lecture</td>
<td>Tuesday</td>
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<tr>
<td>TCC 101 Session II</td>
<td>Tuesday</td>
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<tr>
<td>International Education Partner Meeting</td>
<td>Tuesday</td>
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<tr>
<td>West Asia and Africa Area Board of Trustees</td>
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<tr>
<td>Whitney Lecture</td>
<td>Tuesday</td>
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<tr>
<td>ACPC Symposium Officer Training</td>
<td>Tuesday</td>
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<tr>
<td>European Area Board of Trustees</td>
<td>Tuesday</td>
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<td>Career Fair</td>
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<td>CSCP Seminar</td>
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<td>CORROSION: Opportunities Realized Mini-Camp</td>
<td>Wednesday</td>
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<td>Section Officer Training</td>
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<tr>
<td>Speller Lecture</td>
<td>Wednesday</td>
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<tr>
<td>TCC Officer Training</td>
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For the most up-to-date listings of meetings, go to [www.nacecorrosion.org](http://www.nacecorrosion.org)
**PLENARY LECTURE**  
**William H. Hartt, Ph.D.**  
**Tuesday, March 17**  
**8 - 9 a.m.**

William H. Hartt, Ph.D., PE, FNACE, Professor Emeritus, Department of Ocean Engineering, Florida Atlantic University-SeaTech Campus, Dania Beach, Florida 33004 USA

Dr. Hartt received a Bachelor of Science degree from Virginia Tech in 1961 and a Ph.D. from the University of Florida in 1966, both in metallurgical engineering. Subsequent to two years at the Army Materials and Mechanics Research Center, he joined the Department of Ocean Engineering at Florida Atlantic University, where he served as director of the Center for Marine Materials and is now Professor Emeritus. Dr. Hartt has been a member of NACE International for 51 years and has chaired what was the Cathodic Protection in Sea Water and Corrosion in Concrete Materials Committees. He has published more than 200 papers in either journals or conference proceedings and has been designated a NACE International Fellow and recipient of the Frank Speller Award. Dr. Hartt continues to serve as a consultant to government and private sector entities.

**Corrosion, Fracture, and Failure Issues for Post-Tensioned Concrete Bridge Structures**

The inception of post-tensioned (PT) concrete dates to less than one century ago, and the technology has subsequently evolved in response to integrity issues as these have been identified. While individual high-strength steel wires or threaded bars are sometimes employed, spiral wound seven wire strand conforming to ASTM A416 in plastic duct is more common. The focus here is upon PT in concrete bridge structures where there is an array of ducts within concrete segments, each with multiple strands that, subsequent to stressing, are grouted. This results in compressive stresses in the concrete at locations that otherwise would be in tension and subject to cracking. Particular attention is given to causes and occurrences of wire and strand corrosion and resultant tendon failure. Such corrosion most commonly occurs from bleed water, water entry through grouting ports or deck drains, or the presence of what has been termed “soft grout;” that is, grout that is segregated and moist with the presence of free water and relatively high sulfate concentrations. Tendon failures in the latter case have been reported as soon as two years post-construction. In response to this, a modeling approach that projects the onset and subsequent rate of wire and strand fractures and tendon failures, given statistics for individual wire/strand corrosion rate, is described along with the role of influential factors. A foremost challenge moving forward is the development of technologies for, first, identifying and quantifying corrosion damage and, second, controlling any ongoing corrosion. Approaches for accomplishing this are described.
NACE International is pleased to announce Jill Ellis, former head coach of the 2019 championship United States Women’s National Soccer Team (USWNT), as keynote speaker for CORROSION 2020. Before 2015, the USWNT had already won more than five World Cup Championships or Olympic Gold Medals; some coaches may have thought “I have the greatest team—what must I do to sustain our greatness the next World Cup?” Coach Ellis took a different approach.

She took steps to reach an even higher potential, including making changes to a championship roster. These changes were often criticized by media and former players. New players didn’t always appear to be a great fit with the existing players and weren’t seen as collaborative. Hear firsthand how Coach Ellis used decisive strategies to heighten team excellence by selecting players with the greatest impact—not fit, not collaboration, but impact—and then coached the diverse group to work as a team. It was risky, and it delivered.

In 2015 and 2019, the USWNT won the World Cup Championship under the leadership of Ellis, making her the first female coach to win back-to-back World Cup Championships, and only the second coach to do so. After being named head coach of the USWNT on May 16, 2014, Ellis largely rebuilt the team and transformed its approach to the sport. In less than 13 months, she led the team to its 2015 World Championship victory.

At the end of 2015, along with other honors, Ellis was named the FIFA Women’s World Coach of the Year for Women’s Soccer, marking the first time an American had been bestowed with that honor. She was also named the Confederation of North, Central American and Caribbean Association Football (CONCACAF) Female Coach of the Year, and the USA team won the ESPY for Team of the Year, 2015.

Ellis took on the position as head coach of the USWNT after serving as director of development for the U.S. Women’s National Youth Teams since January of 2011. Prior to that, she was head coach of the UCLA Women’s Soccer team and led the Bruins to eight NCAA Final Four competitions, including seven in a row from 2003-2009, and won six straight conference titles from 2003-2008. She finished her time at UCLA with a record of 229-45-14. Ellis, who was also head coach at the University of Illinois, has an all-time collegiate coaching record of 248-63-14 and is currently the only female to hold the United States Soccer Federation Professional License for coaching.

NACE International is pleased to announce Texas Railroad Commissioner (RRC) Ryan Sitton as a featured speaker at CORROSION 2020. This will be Commissioner Sitton’s first presentation to NACE members, and he’ll update us on the future of the oil and gas industry in the State of Texas and provide different perspectives on regulatory elements of the industry.

Sitton was elected Texas Railroad Commissioner in 2014. The RRC has nothing to do with trains—it regulates the strong and vital energy development sector in the Lone Star State. Sitton is an energy expert and is the first engineer elected to the commission in over 50 years. He brings his real-world leadership and expertise to every aspect of the agency’s operations. He is the youngest-ever Distinguished Graduate of Texas A&M University and was named to the Houston Business Journal’s 40 under 40 list.

During this moderated discussion, Commissioner Sitton will discuss the latest trends, policy proposals, and ways that NACE can work with the RRC to ensure the highest levels of public safety in the oil and gas industry. The forum will also include discussion on NACE standards that are critical to key RRC policies.

Sitton is an inventor, engineer, entrepreneur, and public servant. He and his wife Jennifer built their business, PinnacleART, from the ground up in 2006 and have grown it to more than 900 employees and revenues of over $100 million. PinnacleART designs, implements, and maintains comprehensive asset reliability and integrity programs.
Networking Activities

Saturday, March 14

CORROSION Crew Social Brew
6 to 10 p.m. • El Big Bad

Welcome to Houston and the start of CORROSION 2020! Join other attendees at El Big Bad, located in Houston's historic Market Square. Enjoy a taste of local Mexican cuisine made with fresh ingredients in a fun, colorful, and inviting atmosphere.

Admission price is $25 USD each and includes dinner, a drink ticket, and live entertainment. Hosted by the NACE Houston Section.

Sponsored by:

Sunday, March 15

25th Annual NACE Race benefiting the NACE Foundation
8 a.m. • Memorial Park
Houston, TX

Join us for this year’s NACE Race and run for a reason at CORROSION 2020! This noncompetitive 5K run/walk is a tradition for conference attendees and their guests, and a great way to stretch your legs before the start of the conference. The $20 entry fee includes an official race shirt and post-race celebration, including refreshments and medal presentation for 1st, 2nd, and 3rd place finishers in the men’s and women’s divisions. Bus transportation is provided to and from the convention center.

Sign up when you register for CORROSION 2020 or visit nace-foundation.org. Sponsorships are also available starting at $150! NACE staff contact: Brandy Adams, +1 281-228-6478, brandy.adams@nace.org.

Bus Sponsor:

Opening Reception
5:30 to 7 p.m.
Ballroom of the Americas, Hilton Americas Houston

The 2020 Opening Night Reception opens CORROSION 2020 in Houston, 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 NACE International. The two organizations are bound together by a common vision of corrosion prevention, environmental preservation, and education.

Sponsored by:

A34	OCTOBER 2019
WWW.MATERIALSPEFORMANCE.COM
### Networking Activities

**Monday, March 16**

**15th Annual Silent Auction**

*benefiting the NACE Foundation*

**Monday, March 16 to Wednesday, March 18**

Exhibit Hall - George R. Brown Convention Center

Take a break from the action in the CORROSION 2020 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 18.

Proceeds will benefit the NACE Foundation in our efforts to inspire the future workforce to pursue careers in science, technology, engineering, and math (STEM).

**NACE U Student Meeting**

*Today’s Students, Tomorrow’s Solutions*

1 to 2 p.m.

Network with other students and young professionals at this year’s NACE U Student Meeting. Attend this meeting to hear from others across the globe and share learnings impacting young professionals.

**Tuesday, March 17**

**Headshot Station**

8 a.m. to 5 p.m.

Need to upgrade your professional headshot? Stop by the Headshot Station to update your look and professional profile.

*Sponsored by:*

**Career Fair**

1 to 5 p.m.

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.

Job seekers—find your dream job and connect with registered employers.

Employers—register for an exhibit booth today to recruit your dream candidate.

For more information, contact Cindy Tracy at cindy.tracy@nace.org.

**GenNEXT Bash**

*benefiting the NACE Foundation*

**House of Blues - Houston, TX**

7 to 8 p.m.  Scholarship Awards Ceremony

8 to 11 p.m.  The Grooves Band/Dancing

**Come for the awards...stay for the party!**

Don’t forget to wear your green and join us on St. Paddy’s Day as we honor our outstanding 2020 students and scholarship recipients and celebrate the future of our industry.

Individual tickets are $65 and can be purchased with your CORROSION 2020 registration. Sponsorships are also available! NACE staff contact: Heather Lowry, +1 281-228-6205, heather.lowry@nace.org.

Tickets will not be available for purchase at the door the night of the event.

**Note:** To attend the Scholarship Awards Ceremony you must have a GenNEXT Bash ticket. Student registrants for CORROSION 2020 receive a complimentary event ticket with their conference registration. Conference shuttles will be available for guests’ transportation needs. Limited hosted bar.

**Scholarship Awards Ceremony Sponsor:**

**GenNEXT Bash Signature Sponsor:**

**Titanium Sponsor:**

**Silver Sponsor:**
Networking Activities

Wednesday, March 18

CORROSION: Opportunities Realized
10 a.m. to 4 p.m.
George R. Brown Convention Center

To educate the next generation on the destructiveness of corrosion, the NACE Foundation is hosting a day-long mini-camp for local high school students in conjunction with CORROSION 2020.

Students from Houston-area high schools will participate in hands-on, corrosion-related activities, using the NACE Foundation’s cKit™ (Corrosion Toolkit). They will learn basic scientific principles of corrosion in topics such as oxidation, thermodynamics, and electrochemistry. Students will also have the opportunity to learn about research and career opportunities from industry professionals and university students while touring the CORROSION 2020 show floor.

Volunteers are needed. For information on how you can get involved, contact Brandy Adams, +1 281-228-6478, brandy.adams@nace.org.

NACE Honoree Night
7 to 10 p.m. • Minute Maid Park

NACE invites you to an evening of celebration as the association’s annual awards are presented in recognition of members who have made outstanding contributions to NACE and the corrosion control profession. Taking place at Minute Maid Park, the evening will include remarks from the President’s Award winner, recognition of our volunteer board leaders, and the passing of the gavel to the incoming 2020-2021 NACE president. Guests will then enjoy a relaxing evening of networking, heavy hors d’oeuvres, and entertainment. Please contact us about sponsorship opportunities. Tickets are available online or by contacting firstservice@nace.org. Space is limited, so it is recommended that you purchase your tickets in advance.

HIGH ROLLIN’ FOR A HARLEY

How the contest works:

1. Attendees will have to visit your booth and all other High Rollin’ for a Harley sponsors.

2. Once they have collected all of the cards from all of the sponsors, they will submit the entry form to the location of the Harley on the show floor.

3. The drawing will be held on Thursday at 10:30 a.m.

Sponsored by:

Interested in sponsoring? sales@nace.org
Stay current in the coatings industry with the **PROTECTIVE COATINGS WORKSHOP**

**March 17-18, 2020 | Houston, TX | George R. Brown Convention Center**

Designed for coatings applicators, inspectors and contractors of all experience levels, this interactive workshop will engage you in discussion and presentations on the latest:

- Emerging technologies and equipment
- New surface preparation and coatings techniques within various environments
- Best practices and case studies from industry experts

Exciting new topics for 2020 include:

- Robotics in inspection
- The role of virtual reality in the coatings industry
- Economics of coatings and coatings inspection
- Coatings used in wind farm and offshore wind environments
- Avoiding premature failures
- Wet abrasive blast cleaning
- Corrosion under insulation

Network with fellow coatings professionals and instructors from NACE’s renowned Coating Inspector Program, expand your coatings knowledge, and earn CEUs and/or PDHs!

*An event you don’t want to miss!*

Mark your calendar today

nacecorrosion.org

Supported by:
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 committee meetings. Program details and locations are listed below.

**Guest Reception**  
*Hilton Americas Hotel, Room 346*  
On Sunday, March 15, guests will enjoy an afternoon to unwind and relax with other Guest Program attendees. The reception will last from 2 to 5 p.m., and food and drinks will be provided.

**Opening Reception**  
*Hilton Americas Hotel*  
Kick off CORROSION 2020 at the Hilton Americas Hotel on Sunday evening from 5:30 to 7 p.m. with conference attendees and exhibitors. Drinks and hors d’oeuvres will be provided.

**Continental Breakfast**  
*Hilton Americas Hotel, Room 346*  
All Guest Program registrants are invited to enjoy an expanded continental breakfast at the Hilton Americas Hotel on Monday through Thursday, serving from 8 to 9:30 a.m. Breakfast is only available to those who have registered for the Guest Program. No other registrations for the conference will be permitted to partake in the breakfast.

**Guest Program Registration**  
Guest Program registrants may pick up their badges at the CORROSION 2020 registration desk located in Exhibit Hall D in the George R. Brown Convention Center. On-site registration for the Guest Program will be conducted during regular conference registration times. The Guest Program badge is your “ticket” to the Guest Program activities and the CORROSION 2020 Expo Grand Opening.

*Note: Only guests who wish to attend the Guest Program activities or the Expo Grand Opening are required to register for the Guest Program.*

Tour buses will depart from and return to the Hilton Americas Hotel.

**Guest Tours**  
*Space limited on each tour. Tickets must be purchased in advance. If a minimum is not met a tour is subject to cancellation.*

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**Saturday March 14**

**Space Center Houston**  
9 a.m. – 3 p.m.  
This tour will take you to Space Center Houston. As the Official Visitor Center for NASA’s Johnson Space Center, Space Center Houston is the only place on Earth that gives guests an out-of-this-world journey through human adventures in space. Since 1992, this $75 million, 180,000 square foot, “edu-tainment” complex has entertained and informed over 11 million star-struck guests from every corner of the globe.

**Ongoing Attractions, Exhibits, and Tours**  
The tour will include a visit to Independence Plaza, which contains the historic shuttle carrier aircraft NASA 905 with the high-fidelity shuttle replica Independence mounted on top. This is the only place on earth where you can actually board a space shuttle!

Then journey into space with the film “On Human Destiny” at the Destiny Theater. View artifacts and hardware on display in the Starship Gallery and trace the progression of America’s Manned Space Flight. This incredible collection includes an original model of the Goddard Rocket; the actual Mercury Atlas 9 “Faith 7” capsule flown by Gordon Cooper; the Gemini V Spacecraft piloted by Pete Conrad and Gordon Cooper; a Lunar Roving Vehicle Trainer; the Apollo 17 Command Module; the giant Skylab Trainer; and the Apollo-Soyuz Trainer.

Also available is a NASA Tram Tour. This 90-minute journey behind-the-scenes at Johnson Space Center includes stops at several NASA facilities including Mission Control, Astronaut Training Facilities, and Rocket Park, where you will see the biggest, fastest, most powerful rocket in the world at The Saturn V Experience.

*Price: $105 USD per person, 20-person minimum.*  
*Price includes access to Space Center Houston. Does not include lunch.*

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**Sunday, March 15**

**Houston Art and Architecture Tour**  
8:30 a.m. – 12:30 p.m.  
Take a tour of Houston—the 4th largest city in the United States. It’s one of the most diverse cities in the U.S., with people flocking here from all over the world. Explore Houston’s history, culture, and diversity through this art tour. Your certified professional tour guide will entertain you with great stories, history, and culture while exploring the magnificent and abundant art.

You will drive through downtown Houston, which boasts a beautiful modern skyline intensified by public art installations by Miro, Dubuffet, and Mel Chin—just to mention a few. The skyline is a work of art in itself with the designs of architects like Philip Johnson, John Burgee, I.M. Pei, Joseph Finger, and Alfred Finn.
Guest Program

Walk through the magnificent lobby of Chase Bank, one of the finest examples of Art Deco Architecture in the city and explore the Houston tunnel system—a city within a city under the streets of downtown Houston. Visit the famed Art Car Museum full of imaginative and artfully constructed art cars, low riders, and mobile contraptions.

Visit the Menil Collection—John and Dominique de Menil began actively collecting art in the 1940s, ultimately amassing nearly 16,000 paintings, sculptures, decorative objects, prints, drawings, photographs, and rare books.

Drive through the amazing River Oaks neighborhood where the “who’s who” of Houston make their home. Be awed by the mansions and beautiful gardens owned by oil millionaires, doctors, bankers, lawyers, and business owners.

Drive through The Texas Medical Center—the largest medical center in the world. Learn the fascinating story of how it began and how it has become one of the most renowned medical centers in the world, with emphasis on cancer and the heart. Cross over to the Rice University campus—the Ivy League school of the southwest. Hear the scandalous story about the school that was built as a result of the discovery of William Marsh Rice’s murder in the year 1900.

Price: $70 USD per person, 20-person minimum.

Monday, March 16

**Galveston Island/Tree Sculptures/Sunflower Bakery**

9 a.m. - 4 p.m.

Galveston Island is a small, romantic island tucked deep within the heart of south Texas. It has been explored and occupied since the early 1500s and was once known as the richest city in Texas, considered “the Wall Street of the Southwest,” and the “Ellis Island of the Southwest.” It has seen its share of calamities, yet the worst natural disaster in U.S. history, the 1900 storm, could not erase the tranquility of a Galveston sunset.

Begin with a tour of the island. Your professional tour guide will entertain you with fascinating stories about the island’s history, events, and characters. Drive by the “Broadway Beauties,” an amazing group of historic homes that portray early 20th century family life among Galveston’s most elite. Enjoy ghost stories, since Galveston is considered one of the most haunted cities in America! Drive past whimsical tree sculptures that have replaced the majestic oaks that were destroyed during Hurricane Ike in 2008 and once lined many neighborhoods. Stop for lunch at the Sunflower Bakery. Stop at the Strand, where you will have time for shopping and sightseeing. The Strand National Historic Landmark District was the heart of Galveston in the late 1800s and early 1900s when its star was bright and it was full of great promise, the “New York of Texas.” This district offers marvelous downtown shopping, numerous antique stores, and incredible art galleries, in a fabulous setting among one of the largest and most well-preserved concentrations of Victorian architecture in the country. Other features that give the Strand its unique and romantic charm are the high curbs, overhanging canopies that were meant to shade the streets, and the horse drawn carriages that pass slowly in the streets, at so much slower a pace than the automobiles of today. Lunch is included at the Sunflower Bakery.

$115 USD per person, 20-person minimum, includes lunch.

Tuesday, March 17

**Old Town Spring**

9 a.m. to 3 p.m.

Step back in time and check out Old Town Spring. Old Town Spring is located 40 minutes north of downtown Houston in Spring, Texas. It is a historic 1900s railroad town that has been completely transformed into a unique shopping and eating destination open year-round. Dozens of shops, restaurants, museums, and art galleries line the streets, inviting customers to explore the turn of the century town and truly get lost in time. You will find a variety of antiques, collectibles, clothing, and accessories for the home and gifts for all occasions. The merchants of Old Town Spring literally travel the globe in search of unique and unusual wares for their shops. Browse fun shops like The Blue Giraffe, Cupcake Fabrics and Quilts, Keller Candle Company, and more. Enjoy a leisurely lunch, on your own, at one of the many restaurants offering a tempting array of menus. You will want to return again and again.

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The Exhibition

Expo Schedule
Monday, March 16 .............................................................................................................. 5 to 7 p.m.
Tuesday, March 17 .............................................................................................................. 10 a.m. to 5 p.m.
Wednesday, March 18 ....................................................................................................... 10 a.m. to 5 p.m.
Thursday, March 19 ......................................................................................................... 9 a.m. to noon

Expo Events
Monday, March 16
Cathodic Protection (CP) Field .............................................................................................................. 5 to 7 p.m.
Coatings Experience ........................................................................................................... 5 to 7 p.m.
Expo Grand Opening* ........................................................................................................ 5 to 7 p.m.
NACE Foundation Silent Auction Bidding ........................................................................... 5 to 7 p.m.
Student Poster Session ........................................................................................................... 5 to 7 p.m.

Tuesday, March 17
CP Field ........................................................................................................................................ 10 a.m. to 5 p.m.
Coatings Experience ........................................................................................................... 10 a.m. to 5 p.m.
Complimentary Lunch (full conference attendees only) ............................................. 11:45 a.m. to 1 p.m.
Corrosive Chronicles and MP Innovation Theater ................................................................. 10:30 a.m. to 5 p.m.
NACE Foundation Silent Auction Bidding ........................................................................... 10 a.m. to 5 p.m.
Protective Coatings Workshop ............................................................................................... 10 a.m. to 5 p.m.
Student Poster Session ........................................................................................................... noon to 1 p.m.

Wednesday, March 18
CP Field ........................................................................................................................................ 10 a.m. to 5 p.m.
Coatings Experience ........................................................................................................... 10 a.m. to 5 p.m.
CORROSION: Opportunities Realized Mini-Camp ................................................................. 10 a.m. to 4 p.m.
Corrosive Chronicles and MP Innovation Theater ................................................................. 10:30 a.m. to 5 p.m.
NACE Foundation Silent Auction Bidding ........................................................................... 10 a.m. to 4 p.m.
Protective Coatings Workshop ............................................................................................... 10 a.m. to 5 p.m.
Student Poster Session Winners Announced ........................................................................... 12:30 p.m.

Thursday, March 19
CP Field ........................................................................................................................................ 9 a.m. to noon
Coatings Experience ........................................................................................................... 9 a.m. to noon
Harley Giveaway ..................................................................................................................... 10:30 a.m.

*Please note: 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 16.

Student Poster Display
To encourage student involvement in the field of corrosion technology, the NACE Research Committee sponsors a Student Poster Session at CORROSION 2020. 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.

Corrosive Chronicles and MP Innovation Theater
The popular and expanded Corrosive Chronicles Theater will feature experienced corrosion professionals and NACE staff who will present interactive forums on a variety of corrosion-related topics on the Exhibit Hall floor. Conference attendees will learn unique lessons and solutions to corrosion issues that are relatable to their own field of expertise. The theaters will be split into the Corrosive Chronicles and MP Innovation Theater and will be open to conference attendees on Tuesday, March 17 and Wednesday, March 18. Please see the CORROSION 2020 Final Program for more information and for theater assignments.
2020 Expo Hall

Cathodic Protection Field—Open during exhibit hours
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
- Testing of an impressed current CP system
- Galvanic CP system testing
- Obtaining soil resistivity measurements

The Coatings Experience—Open during exhibit hours
Returning for 2020. Join us on the Exhibit Hall floor for The Coatings Experience. This interactive area 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!

Harley Giveaway
This is YOUR chance to ride away on a Harley Davidson in Houston! Simply visit each High Rollin’ for a Harley sponsor at CORROSION 2020 and collect a playing card at each sponsoring booth. Once playing cards have been collected from all sponsors, hightail it over to the Harley on the Exhibit Hall floor, and complete the submission card to enter to win. Return to the Exhibit Hall on Thursday at 10:30 a.m. to see if you’ve won!

Sponsored by:

Product Showcase
The Product Showcase is a dedicated area to increase awareness and interest in CORROSION 2020 exhibitors’ products. Each product will have a description of its purpose and booth number of the exhibiting company. The product showcase will be located at the entrance to the Exhibit Hall. If you’re interested, contact Roberta Arnold by phone at +1 281-228-6286 or email roberta.arnold@nace.org.

Protective Coatings Workshop
NACE International, CoatingsPro Magazine, Master Painters Institute (MPI), INSPECT This, and NACE Coatings Council are excited to announce the return of the Protective Coatings Workshop at CORROSION 2020! This interactive workshop, designed for those working in or interested in learning more about coatings, will feature presentations from coatings industry leaders, an introduction to new emerging technologies, and highlight the experience and accomplishments of those currently involved in the coatings field.

Topics for this year include:

- Robotics in inspection
- Virtual reality in training and testing
- The economics of coatings and coatings inspection
- Coatings in wind farm and offshore wind environments
- Avoiding premature failures
- Surface preparation standards and rust grades
- Scanning dry film thickness measurement, equipment, and procedures
- Understanding how coatings adhere to substrates
- Wet abrasive blast cleaning
- Corrosion under insulation (CUI)

See p. A24 for more details.
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Web site: www.nipponsteel.com/index.html
Booth Number: 121

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<td>Qingdao Rising-Sun Shine Ship Engineering Technique Co., Ltd.</td>
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<td>RPS Composites, Inc.</td>
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<td>Sentry Equipment</td>
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<td>Shanghai Tianyang Steel Tube Co., Ltd.</td>
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<td>SHAWCOR</td>
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<td>Sherwin-Williams</td>
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<td>Simona America, Inc.</td>
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<td>Solmax—RockArmour</td>
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<td>Southwestern Paint Panels</td>
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<td>Southwest Research Institute</td>
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<td>Specialty Polymer Coatings, Inc. (SPC)</td>
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<td>Sponge-Jet, Inc.</td>
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<td>SSPC: The Society for Protective Coatings</td>
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<td>Step-Ko Products, LLC</td>
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