Hello and Welcome to the 2020 NACE Northern Area Western Conference!

On behalf of the Organizing Committee, I would like to welcome you to Regina and the exciting conference we have planned for this year. The theme this year is *Doin’ it Right! The Diversity of Managing Asset Integrity on the Prairies.*

Our land, people and industries are diverse, but they all can be impacted by corrosion and integrity challenges. Within that diversity is a common goal to protect the public and environment, and the challenge to prolong the life of our assets. With that in mind, we have put together a very diverse and exciting program covering a wide range of topics from across multiple industries. Additionally, we have a couple fantastic guest speakers who will tie our conference theme and diversity of topics together into some great opening presentations each day around growing through partnerships and our common pursuit of excellence. Be sure as well to join us on Wednesday evening after the close of the technical program in the exhibit hall for “A Sip of Saskatchewan”. This will be an opportunity to try samples from the area’s diverse mix of local breweries and distilleries, while you further explore the exhibits in the hall to spend time interacting with the exhibitors and network with your fellow corrosion professionals.

We want to thank our presenters for taking the time to prepare their presentations and sharing with everyone, our exhibitors for participating in the show, and our sponsors for their generous support to help make this conference happen! We hope that you find the technical presentations interesting, the vendors in the exhibit hall informative, and the networking event on Wednesday evening entertaining.

Thank you everyone for attending the 2020 NACE Northern Area Western Conference!

Sincerely,

Bob Prieston, P.Eng.

2020 NAWC Chair
Thank You to Our Sponsors
2020 Floor Plan
Exhibitors/Booth Numbers

2020 Sponsors

- Abacus Datagraphics Ltd. Booth 307
- Caproco (1987) Limited Booth 308
- Carboline Co. Booth 317
- CENÖZON INC Booth 209
- Clean Harbors Booth 309
- Cloverdale Paint Inc. Booth 108
- Commercial Sand Blasting and Painting Booth 202
- Corrizon Canada Inc. Booth 314
- Corrosion Service Company Limited Booth 403
- Critical Control Energy Services Inc. Booth 303
- Daam Galvanizing Booth 316
- Dairyland Electrical Industries Booth 405
- Denso North America Booth 112
- DistributionNOW Booth 102
- Droycon Bioconcepts Inc. Booth 306
- Explore Inc. Booth 114
- Ingu Solutions Booth 411
- International Paint / AkzoNobel Booth 312
  
- International/Interprovincial Corrosion Control Co. Ltd. Booth 217
- Nilex Inc. Booth 305

- Onstream Pipeline Inspection, Inc. Booth 110
- Pipetech Corp. Booth 207
- PureHM Booth 203
- Radiodetection Booth 404
- ROSEN Booth 402
- Russell NDE Systems Booth 408
- Rysco Corrosion Services, Inc. Booth 103
- Sherwin-Williams Booth 313
- Spartan Controls Booth 215
- Specialty Polymer Coatings, Inc. (SPC) Booth 213
- Trenton Corp. Booth 412
- Tuff-N-Nuff Booth 406
# Schedule of Events

<table>
<thead>
<tr>
<th>Day</th>
<th>Event</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuesday, February 4</td>
<td>Registration</td>
<td>2:00 p.m. – 5:00 p.m.</td>
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<tr>
<td></td>
<td>Exhibitor Setup</td>
<td>2:00 p.m. – 5:00 p.m.</td>
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<tr>
<td>Wednesday, February 5</td>
<td>Registration</td>
<td>7:30 a.m. – 4:30 p.m.</td>
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<tr>
<td></td>
<td>Program</td>
<td>7:50 a.m. – 4:00 p.m.</td>
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<tr>
<td></td>
<td>Lunch</td>
<td>11:30 a.m. – 1:00 p.m.</td>
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<tr>
<td></td>
<td>A Sip of Saskatchewan Reception</td>
<td>4:30 p.m. – 7:00 p.m.</td>
</tr>
<tr>
<td>Thursday, February 6</td>
<td>Registration</td>
<td>7:30 a.m. – 12:00 p.m.</td>
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<tr>
<td></td>
<td>Program</td>
<td>8:00 a.m. – 4:00 p.m.</td>
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<tr>
<td></td>
<td>Lunch</td>
<td>11:30 a.m. – 1:00 p.m.</td>
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<tr>
<td></td>
<td>Exhibit Teardown</td>
<td>3:00 p.m. – 6:00 p.m.</td>
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# Conference Committee

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conference Chair</td>
<td>Bob Prieston</td>
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<tr>
<td>Conference Vice-Chair</td>
<td>Barry Sudom</td>
</tr>
<tr>
<td>Technical Program Chair</td>
<td>Rob Fritz</td>
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<tr>
<td>Session Chairs</td>
<td>Matthew Kemp</td>
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<td></td>
<td>Ranga Krishnaiyer</td>
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<td></td>
<td>Eric Zahn</td>
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<td></td>
<td>Shelise Berteig</td>
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<tr>
<td>Social Events</td>
<td>Kendra Nichol</td>
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<tr>
<td>Publicity/Sponsorship</td>
<td>Jadon Rempel</td>
</tr>
<tr>
<td>Trade Show/Logistics</td>
<td>Dave Shannon</td>
</tr>
<tr>
<td>Registration</td>
<td>Shaun Fraser</td>
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</tbody>
</table>

For more information on upcoming events for the NACE Saskatchewan section please see our web page [www.nacesk.ca](http://www.nacesk.ca) or contact us by email at communications@nacesk.ca.
## Technical Program

### WEDNESDAY, FEBRUARY 5

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00 a.m. – 7:00 p.m.</td>
<td><strong>Exhibition</strong> <em>(Trentino-Tuscany Hall)</em></td>
</tr>
<tr>
<td>7:50 a.m. – 8:00 a.m.</td>
<td><strong>Opening and Welcome Remarks</strong></td>
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</table>
| 8:00 a.m. – 8:30 a.m. | **Keynote Speech**  
Integrity Management... Our Pursuit of Excellence  
Colin McGovern  
Advisor, Corporate Asset Integrity  
Canadian Natural Resources |
| 8:30 a.m. – 9:00 a.m. | **MORNING BREAK** *– Sponsored by Park Derochie* *(Trentino-Tuscany Hall)* |
| 9:00 a.m. – 9:30 a.m. | **Oil & Gas Asset Integrity**  
Chair: Shelise Berteig  
Regulatory Status Regarding the Use of Vapor Corrosion Inhibitors in Pipeline and Tank Applications  
Presented by Kelly Baker, Zerust Oil and Gas |
| 9:30 a.m. – 10:00 a.m. | **Coatings & Linings**  
Chair: Ranga Krishnaiyer  
Saving the Deer - The Enbridge Tank 79 Mural Restoration Project  
Presented by Barry Sudom, Commercial Sand Blasting and Painting |
| 9:00 a.m. – 9:30 a.m. | **Electronic Internal Pipeline Corrosion Monitoring and Mitigation Case Studies**  
Presented by Ryan Finlayson, Rysco Corrosion Services Inc. |
| 9:30 a.m. – 10:00 a.m. | **Investigation of a New Approach for Collection of Field Joint Coating QC Data**  
Presented by Connor Blake, Advanced Data Logistics |
| 10:00 a.m. – 10:30 a.m. | **MORNING BREAK** *– Sponsored by Park Derochie* *(Trentino-Tuscany Hall)* |
| 10:30 a.m. – 11:00 a.m. | **Field and Shop-Applied Pipeline Coatings in Canada (CSA Z245.30)**  
Presented by Pablo Fernandez Marchi, CSA Group |
| 11:00 a.m. – 11:30 a.m. | **A Comparison Between Pipers and MFL Pipeline Data**  
Presented by Zachary Shand, INGU Solutions |
| 11:00 a.m. – 11:30 a.m. | **How Safe Is Your Passive Fire Protection (PFP)?**  
Presented by Ravishankar Nagarajan, AkzoNobel Coatings/ International Paints |
| 11:30 a.m. – 1:00 p.m. | **LUNCH BREAK** *– Sponsored by Abacus Datagraphics Ltd. and NACE Saskatchewan Section* *(Trentino-Tuscany Hall)* |
| 1:00 p.m. – 1:30 p.m. | **Oil & Gas Asset Integrity**  
Chair: Shelise Berteig  
Passivation Studies of Mild Steel in a Thermal In-Situ Oil Sands Environment  
Presented by Ayodele Okunola, Baker Hughes |
| 1:30 p.m. – 2:00 p.m. | **Corrosion Modelling & Assessment**  
Chair: Rob Fritz  
Validation of the New Gamma Exponent Model for Localized Corrosion Assessment in Oil and Gas Pipelines  
Presented by Colin Scott, IRISNDT |
| 1:30 p.m. – 2:00 p.m. | **Holistic Internal Corrosion Risk Assessment Methodology for Crude Oil Pipeline Segments**  
Presented by Chukwuma Onuoha, PureHM |
## Technical Program

<table>
<thead>
<tr>
<th>Time</th>
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</table>
| 2:00 p.m. – 2:30 p.m. | Developing an IOW program for Acid Gas Enrichment Equipment to Avoid Amine Corrosion  
Presented by Reza Zareie, SPGC (South Pars Gas Complex) | Advancements in Pipeline Risk Analysis Using Integrated Data and Software  
Presented by Jennifer Thornton, GDM Pipelines |
| 2:30 p.m. – 3:00 p.m. | **AFTERNOON BREAK – Sponsored by Park Derochie (Trentino-Tuscany Hall)** |
| 3:00 p.m. – 3:30 p.m. | Flawless. No HAZ Over Similar or Dissimilar Material  
Presented by Paul Cheng, FuseRing | A New Approach to IR Thermography as a Non-Destructive Helpful Method in Corrosion Detection in Slug Cathers of Gas Refineries: A Case Study in South Pars Gas Refineries  
Presented by Reza Zareie, SPGC (South Pars Gas Complex) |
| 3:30 p.m. – 4:00 p.m. | Terminal Piping Integrity Program Risk Factors and Methodology  
Presented by Michael Zhou and Sockalingam Sakkappan, Gibson Energy | Risk Based Inspection Data Integration for Assessing Microbiologically Influenced Corrosion in the Oil and Gas Industry  
Presented by Andre De Araujo Abilio, University of Alberta |
| 4:30 p.m. – 7:00 p.m. | **A Sip of Saskatchewan Reception – Exhibit Hall (Trentino-Tuscany)**  
*Sponsored by Explore Inc., Steel Reef Infrastructure Corp., Baker Hughes, NACE Saskatchewan Section*  
Taste some of the best beverages from Saskatchewan while growing your professional network! Local breweries and distilleries will be offering samples of their creations on the Exhibition floor. Appetizers will be served too. Access to this reception is included in conference registration. Please note that you must be at least 19-years-old and above to attend the reception.  
Participating breweries and distilleries: Last Mountain Distillery, Pile O’ Bones Brewing Co., Sperling Silver Distillery, District Brewing Co., Outlaw Trail Spirits Inc., and Rebellion Brewing Co. |
### THURSDAY, FEBRUARY 6

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>10:00 a.m. – 3:00 p.m.</td>
<td>Exhibition Hours <em>(Trentino-Tuscany Hall)</em></td>
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<td></td>
<td><strong>Umbria - Lombardy</strong></td>
</tr>
</tbody>
</table>
| 8:00 a.m. – 8:30 a.m. | Keynote Speech - Growing Through Partnerships  
                       Eric Anderson, Executive Director, SIMSA                     |
| 8:30 a.m. – 9:00 a.m. | **MORNING BREAK** *(Trentino-Tuscany Hall)*                           |
|               | **Oil & Gas Asset Integrity**                                           |
|               | Sponsored by Anotec  
               Chair: Shellee Berens                                               |
| 9:00 a.m. – 9:30 a.m. | Insulation and CUI: Breakthroughs in Material Technology and an Explanation of Current Industry Standards  
                       Presented by Fadi Bachir, Rockwool                           |
| 9:30 a.m. – 10:00 a.m. | AST’s Catholic Protection: Typical Problems from a Consulting Engineer Perspective  
                       Presented by Johanna Chavez Laires, NorDa Stelo               |
| 10:00 a.m. – 10:30 a.m. | **MORNING BREAK** *(Trentino-Tuscany Hall)*                           |
| 10:30 a.m. – 11:00 a.m. | Factors Affecting the Assessment of AC Corrosion on Coupons  
                       Presented by Hycem Bahgat, Corrosion Service Company Limited |
| 11:00 a.m. – 11:30 a.m. | Evaluating AC Interference Corrosion Risk and Mitigation Effectiveness for NACE SP21424 Compliance  
                       Presented by Jamey Hillery, Elecsys Corporation               |
| 11:30 a.m. – 1:00 p.m. | **LUNCH BREAK** – Sponsored by Abacus Datagraphics Ltd. and NACE Saskatchewan Section *(Trentino-Tuscany Hall)* |
| 1:00 p.m. – 1:30 p.m. | **Infrastructure & Asset Integrity**  
                       Sponsored by Anotec  
                       Chair: Eric Zahn                                                 |
| 1:30 p.m. – 2:00 p.m. | Decouplers and AC Mitigation Station Decoupling  
                       Presented by Timothy Bechtel, Dairyland Electrical Industries  |
| 2:00 p.m. – 2:30 p.m. | You Zinc You Know Hot-Dip Galvanizing  
                       Presented by Darcy Pretula, Daarm Galvanizing                   |
| 2:30 p.m. – 3:00 p.m. | **AFTERNOON BREAK** *(Trentino-Tuscany Hall)*                         |
| 3:00 p.m. – 3:30 p.m. | **Corrosion Modelling & Assessment**  
                       Chair: Rob Fritz                                                 |
| 3:30 p.m. – 4:00 p.m. | Lunar Induced Corrosion  
                       Presented by Venkatesan Mukeshvashan, BS Abdur Rahman Crescent Institute of Science Technology  
                       Latest NDT Technologies for the Inspection of Lined Pipelines  
                       Presented by David Russell, Russell NDE Systems Inc.           |
|               | **Coatings & Linings**                                                 |
|               | Chair: Ranga Krishnayyer                                                |
| 9:00 a.m. – 9:30 a.m. | Protecting Anti-Corrosion Coatings during HDD Pull Back Using Fibre Reinforced Sacrificial Coatings  
                       Presented by Aaron Geiger, Shawcor Pipeline Performance Products |
| 9:30 a.m. – 10:00 a.m. | Treat the Metal. Don’t Just Coat It  
                       Presented by Olfir Yaacov, Corrizon Canada Inc.               |
|               | **Mining Industry Asset Integrity**                                    |
|               | Chair: Matthew Kemp                                                    |
| 9:00 a.m. – 9:30 a.m. | Corrosion Concerns in Mining Industry  
                       Presented by Kai Li, Engoomp                                   |
| 9:30 a.m. – 10:00 a.m. | Pipeline Coating Solutions for the Mining Industry  
                       Presented by Maurice Batalias, Shawcor                         |
| 10:00 a.m. – 10:30 a.m. | Planning for Assessment of Mechanical Asset Integrity in the Mining Industry  
                       Presented by Xavier Ortiz Gonzalez, Stantec Consulting Ltd.    |
Code of Ethics

THE FUNDAMENTAL PRINCIPLES
Members uphold and advance the integrity, honor, and dignity of the members’ profession by using their knowledge and skill for the enhancement of human welfare; being honest and impartial, and serving with fidelity the public, their employers, and clients; and striving to increase the competence and prestige of the corrosion engineering profession.

THE FUNDAMENTAL CANONS
A. Members shall hold paramount the safety, health, and welfare of the public in the performance of their professional duties.
B. Members shall perform services only in the areas of their competence.
C. Members shall continue their professional development throughout their careers and shall provide opportunities for the professional development of those members under their supervision.
D. Members shall act in professional matters for each employer or client as faithful agents or trustees and shall avoid conflicts of interest.
E. Members shall build their professional reputation on the merit of their services and shall not compete unfairly with others.
F. Members shall associate only with reputable persons or organizations.
G. Members shall issue public statements only in an objective and truthful manner.
H. Members shall not maliciously injure the reputation, prospects, or business of others, but this does not remove the moral obligation to expose unethical conduct.

NACE International specifically prohibits sexual harassment by or against any employee, member, officer, director, or other volunteer, vendor, or customer; and such conduct will not be permitted or condoned.

Anti-Harassment Policy

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 to abide by this Anti-Harassment Policy in all venues at NACE Northern Area Western Conference, 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 at +1 281-228-6413 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 NACE Northern Area Western Conference participants are expected to abide by this alcohol policy in all venues at NACE Northern Area Western Conference, 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.
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.