

Advance Program

CORROSION 2016

Collaborate. Educate. Innovate. Mitigate.

March 6-10, 2016

Vancouver Convention Centre
Vancouver, BC, Canada

For more information, visit:

nacecorrosion.org



Official Publications of CORROSION 2016

MP MATERIALS
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Message from the President

nacecorrosion.org



Welcome to the CORROSION 2016 Advance Program

I am pleased to introduce the advance program for CORROSION 2016, your guide for navigating NACE International's 71st annual conference. Located in Vancouver, British Columbia, Canada for the first time, our March 2016 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, as well as exciting new attractions specific to this conference.

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 41 symposia, will feature paper presentations on a wide range of corrosion topics. New this year are symposia focused on corrosion in oil sands, electrochemical corrosion control of steel in concrete, mechanisms of localized corrosion, oil and gas inhibitors for harsh environments, and more.

Special forums will address such topics as the need for a safety culture in pipeline work, innovations and advances in the water industry, and NIICAP, the new NACE International Institute Contractor Accreditation Program. Attendees are invited to a panel discussion where pipeline operators will address key challenges and opportunities they are facing around the world, and the annual women in corrosion networking event will be in the format of a workshop on engaging women in leadership.

The accompanying NACE Expo will feature more than 320 companies displaying the latest in corrosion control products and services. In addition, the cathodic protection test field will return to the exhibit floor for the fifth year, and a new event, Corrosive Chronicles, will feature experienced corrosion professionals in a theater setting who will present their experiences on corrosion incidents in the field and lessons learned. Student posters will be displayed, with winners announced on Wednesday. The Expo Grand Opening—the most highly attended event each year—will kick off the CORROSION 2016 exhibition on Monday evening.

As always, there are numerous social opportunities to spend time with friends and expand your network of corrosion professionals. Networking activities kick off Saturday evening with Northern Lights and Bites, hosted by the NACE Northern Area's Atlantic Canada, British Columbia, Calgary, Edmonton, and Toronto Sections. Popular annual events include the NACE Foundation's Sunday morning NACE Race, the Sunday evening Opening Night Reception, the 30 Below event on Monday night for students and new members under 30 years of age, the NACE Foundation's Tuesday evening scholarship awards and Retro Rewind party, and the Wednesday evening Awards Dinner. The Foundation will also host the Casino Night Vancouver on Sunday night, as well as 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 Dallas, Texas, was successful by every measure. I fully expect CORROSION 2016 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.



Jim Feather, NACE President, 2015-2016

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Table of Contents

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General Conference Information & Registration

Welcome	A2
Week-at-a-Glance	A6
General Conference Information	A8
Registration Information	A10
Hotel Information	A12
Map of Vancouver Hotels	A12
Important Dates & Information	A13
What's New at CORROSION 2016	A14

Technical Program

Forums	A15
Technical Symposia	A17
Research Symposia	A21
Student Poster Session	A21
Technical Committee Information	A22
Technical Committee Meetings	A23
Administrative Meetings	A30
Special Lectures	A32
Special Meetings	A33

Networking Activities

Northern Lights and Bites	A35
21st Annual NACE Race	A35
Technical Committees 101	A35
Opening Night Reception	A35
Casino Night Vancouver	A35
NACE U Student Meeting	A36
Expo Grand Opening	A36
30 Below—For Students and Young Professionals Under 30	A36
Career Advancement Center	A36
Retro Rewind	A36
CORROSION: Opportunities Realized Mini-Camp	A37
Section Officer Forum	A38
Awards Dinner	A38
Engaging Women in Leadership	A38

The Exhibition

Expo Schedule & Events	A42
Student Poster Display	A42
Corrosive Chronicles	A42
Cathodic Protection Field	A43
Product Showcase	A43
Expo Floorplan	A44-45
2016 Exhibitors	A46

Guest Program	A89
Program Index	A92
Advertisers Index	A104





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FRIDAY, MARCH 4

Administrative Meeting

A30 Executive Committee/Board Orientation

ISO Meeting

A30 OGP 23936 ISO TC 67/WG 7/TG Non-Metallics

Other Meetings

A30 NACE Foundation Board of Directors Meeting
A30 International Area Directors Meeting

SATURDAY, MARCH 5

Administrative Meeting

A30 Board of Directors Meeting

ISO Meeting

A30 OGP 23936 ISO TC 67/WG 7/TG Nonmetallics

Networking Events

A35 Northern Lights & Bites

SUNDAY, MARCH 6

Forums

A15 Management of MIC in the Oil, Gas, and Petroleum Industry
A15 Chinese Society for Corrosion & Protection Seminar
A15 How to Avoid Premature Coatings Failures

Technical Committee Meetings

A23 STG 01—Reinforced Concrete
A23 STG 02—Coatings and Linings, Protective: Atmospheric
A23 STG 03—Coatings and Linings, Protective: Immersion and Buried Service
A23 STG 05—Cathodic/Anodic Protection
A24 STG 08—Corrosion Management
A24 STG 11—Water Treatment Systems
A24 STG 30—Oil and Gas Production—Cathodic Protection
A24 STG 31—Oil and Gas Production—Corrosion and Scale Inhibition
A25 STG 35—Pipelines, Tanks, and Well Casings
A26 STG 36—Process Industry—Materials Performance in Chemicals
A26 STG 37—Process Industry—High Temperature
A26 STG 39—Process Industries—Materials Applications and Experiences
A27 STG 60—Corrosion Mechanisms
A28 STG 62—Corrosion Monitoring and Measurement—Science and Engineering Applications

Special Meeting

A33 General Membership Business Meeting

Administrative Meetings

A30 MP Editorial Advisory Board
A30 Publications Activities Committee
A30 Technical Coordination Committee (TCC)—Session I

A30 Annual Conference Program Committee (ACPC)—Session 1

A30 Past Presidents Reception

ISO Meetings

A30 MR0175/ISO 15156 Maintenance Panel
A30 OGP 23963 ISO TC 67/WG 7/TG Non-Metallics
A30 TG 299 Oversight of Maintenance Panel
A30 MR0175/ISO 15156 Maintenance Agency

Other Meetings

A30 Latin America Board of Trustees Meeting
A30 Technical Committees 101—Session 1
A30 General Membership Meeting
A30 NII Policy and Practices Committee Meeting
A30 NII Specialty Board for Protective Coatings
A30 NII Specialty Board for Pipeline Coatings
A30 Nigerian Corrosion Professionals
A31 East Asia and Pacific Rim Board of Trustees Meeting
A31 Western Area Board of Trustees Meeting

Networking Events

A35 21st Annual NACE Race
A35 Technical Committees 101
A35 Opening Night Reception
A35 Casino Night Vancouver

MONDAY, MARCH 7

Forums

A15 Thermal Spray Coatings Forum
A15 NACE Transportation Structures Forum

Lectures

A32 Keynote Session
A32 Plenary Lecture

Technical Symposia

A17 Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion Inhibitors
A17 Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)
A17 Corrosion Management
A17 Corrosion in Gas Treating
A17 Recent Experience with Austenitic and Duplex Stainless Steel
A17 High-Temperature Issues and Materials for the Process Industry
A17 Fluid-Induced Degradation—Corrosion/Erosion and Their Interactions
A17 Microbially Influenced Corrosion (Day 1)
A17 Pipeline Integrity (Day 1)
A17 Practical Field Application of Cathodic Protection in Oil and Gas Production
A17 Corrosion in Nuclear Systems (Day 1)
A17 Advances in Materials for Oil and Gas Production (Day 1)

Research in Progress

A21 Passivity and Localized Corrosion
A21 Integrated Computational Materials Engineering (ICME) and Corrosion

Technical Committee Meetings

A23 STG 01—Reinforced Concrete
A24 STG 11—Water Treatment Systems
A24 STG 31—Oil and Gas Production—Corrosion and Scale Inhibition
A25 STG 34—Petroleum Refining and Gas Processing
A25 STG 35—Pipelines, Tanks, and Well Casings
A26 STG 36—Process Industry—Materials Performance in Chemicals
A27 STG 44—Marine Corrosion—Ships and Structures
A27 STG 60—Corrosion Mechanisms
A28 STG 62—Corrosion Monitoring and Measurement—Science and Engineering Applications

Administrative Meetings

A30 TCC Operations Committee
A30 Past Presidents Council
A30 Area Coordination Committee
A30 Policy Committee

Other Meetings

A31 Student Poster Orientation Breakfast
A31 NACE U Student Meeting
A31 CORROSION Editorial Board
A31 Awards Committee
A31 Central Area Board of Trustees Meeting

Networking Events

A36 NACE U Student Meeting
A36 Expo Grand Opening
A36 30 Below—For Students and Young Professionals Under 30

TUESDAY, MARCH 8

Forums

A16 Working in the Pipeline Industry: The Real World Need for a Safety Culture
A16 Water Forum: Innovations and Advances in the Water Industry
A16 International Pipeline Operators Council

Lecture

A33 Willis Rodney Whitney Award Lecture

Technical Symposia

A17 Corrosion in Supercritical Systems
A17 Hydrogen Permeation
A18 Managing Corrosion with Polymers
A18 Refining Industry Corrosion
A18 Corrosion in Oil Sands
A18 Corrosion Issues in Military Equipment and Facilities
A18 Marine Corrosion
A18 Microbially Influenced Corrosion (Day 2)
A18 Pipeline Integrity (Day 2)
A18 Corrosion in Nuclear Systems (Day 2)
A18 Advances in Materials for Oil and Gas Production (Day 2)

Research in Progress

- A21 In Situ Methods for Corrosion Analysis
- A21 Coatings and Inhibitors

Technical Committee Meetings

- A23 STG 01—Reinforced Concrete
- A23 STG 05—Cathodic/Anodic Protection
- A24 STG 10—Nonmetallic Materials of Construction
- A24 STG 11—Water Treatment Systems
- A25 STG 31—Oil and Gas Production—Corrosion and Scale Inhibition
- A25 STG 32—Oil and Gas Production—Metallurgy
- A25 STG 33—Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)
- A26 STG 35—Pipelines, Tanks, and Well Casings
- A26 STG 37—Process Industry—High Temperature
- A26 STG 41—Electric Utility Generation, Transmission, and Distribution
- A27 STG 43—Transportation, Land
- A28 STG 62—Corrosion Monitoring and Measurement—Science and Engineering Applications

Administrative Meetings

- A31 TCC Planning Committee

Other Meetings

- A31 WCO Board of Administrators
- A31 WCO General Assembly
- A31 Career Advancement Center
- A31 Fellows' Breakfast
- A31 Annual Conference Program Committee (ACPC) Symposium Officer Training
- A31 European Area Board of Trustees Meeting
- A31 West Asia and Africa Area Board of Trustees Meeting
- A31 Eastern Area Board of Trustees Meeting
- A31 Northern Area Board of Trustees Meeting
- A31 Student Business Meeting
- A31 Technical Coordination Committee (TCC) International Activities Meeting

Networking Events

- A36 Career Advancement Center
- A36 Retro Rewind

WEDNESDAY, MARCH 9

Forum

- A16 NIICAP—The New NACE International Institute Contractor Accreditation Program

Lecture

- A33 Frank Newman Speller Award Lecture

Technical Symposia

- A18 Electrochemical Corrosion Control of Steel in Concrete
- A18 Underdeposit Corrosion
- A18 Control of Problematic Microorganisms in Oil and Gas Field Operations
- A18 Corrosion Control in the Pulp, Papermaking, and Biomass Conversion Industries
- A18 Corrosion of Biomedical Materials and Devices

- A18 Corrosion Monitoring Technologies for Industrial Applications
- A18 Novel Use of Multielectrode Systems for Corrosion Monitoring and Studies
- A19 Modeling of Corrosion Prediction from System Conditions
- A19 Anodic and Cathodic Protection
- A19 Top-of-the-Line Corrosion
- A19 Oil/Gas Coating Technology Symposium (Day 1)
- A19 Industrial Water Treatment: Trends, Challenges, and Solutions (Day 1)
- A19 Sour Corrosion (Day 1)
- A19 Control and Management of Corrosion and Scaling from Inland to Subsea Fields
- A19 Environmentally Assisted Cracking (Day 1)
- A19 Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 1)

Research Topical Symposium

- A21 Hydrogen Effects in Cracking

Technical Committee Meetings

- A23 STG 01—Reinforced Concrete
- A23 STG 02—Coatings and Linings, Protective: Atmospheric
- A23 STG 05—Cathodic/Anodic Protection
- A24 STG 06—Cleaning, Chemical and Mechanical
- A24 STG 10—Nonmetallic Materials of Construction
- A25 STG 31—Oil and Gas Production—Corrosion and Scale Inhibition
- A25 STG 32—Oil and Gas Production—Metallurgy
- A25 STG 33—Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)
- A25 STG 34—Petroleum Refining and Gas Processing
- A26 STG 35—Pipelines, Tanks, and Well Casings
- A26 STG 41—Electric Utility Generation, Transmission, and Distribution
- A27 STG 43—Transportation, Land
- A27 STG 45—Pollution Control, Waste Incineration, and Process Waste
- A27 STG 60—Corrosion Mechanisms
- A27 STG 61—Inhibition—Corrosion and Scaling
- A28 STG 62—Corrosion Monitoring and Measurement—Science and Engineering Applications

Administrative Meetings

- A31 Annual Conference Program Committee (ACPC)—Session 2
- A31 TCC Reference Publications Committee (RPC)

ISO Meeting

- A30 ISO/TC 35 TAG

Other Meetings

- A31 CORROSION: Opportunities Realized Mini-Camp
- A31 TCC Technology and Program Coordinator Training
- A31 STG Officer Training
- A31 Section Officer Forum
- A31 NACE British Columbia Section Meeting
- A31 Student Poster Winners' Lunch

Networking Events

- A37 CORROSION: Opportunities Realized
- A38 Section Officer Forum
- A38 Awards Dinner

THURSDAY, MARCH 10

Workshop

- A16 Engaging Women in Leadership Workshop

Technical Symposia

- A19 Recent Experiences with Nickel, Titanium, Zirconium, and Other Corrosion-Resistant Alloys
- A19 Geothermal System Corrosion and Scaling
- A19 Inhibitors—Vapor Transported (VCI) and Surface Coatings/Rust Preventives
- A19 Advances in Corrosion Control in Combustion and Conversion
- A19 Corrosion and Corrosion Control of Buried Piping in Nuclear Power Plants
- A19 Direct Assessment
- A20 Oil/Gas Coating Technology Symposium (Day 2)
- A20 Industrial Water Treatment: Trends, Challenges, and Solutions (Day 2)
- A20 Sour Corrosion (Day 2)
- A20 Environmentally Assisted Cracking (Day 2)
- A20 Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 2)

Technical Committee Meetings

- A23 STG 04—Coatings and Linings, Protective: Surface Preparation
- A23 STG 05—Cathodic/Anodic Protection
- A24 STG 10—Nonmetallic Materials of Construction
- A24 STG 30—Oil and Gas Production—Cathodic Protection
- A25 STG 31—Oil and Gas Production—Corrosion and Scale Inhibition
- A25 STG 32—Oil and Gas Production—Metallurgy
- A25 STG 34—Petroleum Refining and Gas Processing
- A26 STG 35—Pipelines, Tanks, and Well Casings
- A26 STG 39—Process Industries—Materials Applications and Experiences
- A26 STG 41—Electric Utility Generation, Transmission, and Distribution
- A27 STG 60—Corrosion Mechanisms

Administrative Meetings

- A30 Research Committee
- A30 Technical Coordination Committee (TCC)—Session 2
- A30 Technical and Research Activities Committee (TRAC)

ISO Meeting

- A30 ISO/TC 156 TAG

Networking Event

- A38 Engaging Women in Leadership Workshop

General Conference Information

nacecorrosion.org

CORROSION 2016 Location

Vancouver Convention Centre
1055 Canada Pl.
Vancouver, BC, V6C 0C3, Canada

Getting to Vancouver

Vancouver International Airport
3211 Grant McConachie Way
Richmond, BC, V7B 0A4, Canada

VISA Application for International Delegates

Any individual traveling from an international location into Vancouver will need to check the Canadian Immigration and Citizenship Web site to identify their specific country VISA requirements.

For detailed listings of whether you will require a Canadian VISA in order to attend CORROSION 2016, please visit the following URLs below:

- Countries Requiring VISA: <http://goo.gl/thZiGJ>
- How to Apply for a VISA: <http://goo.gl/ZTSu0u>
- How to Apply for "Temporary Resident Visa": <http://goo.gl/q6hjFk>
- VISA Processing Times: <http://goo.gl/TSA8Cr>

Conference Shuttle Service

NACE International is providing shuttle service between the Vancouver Convention Centre and selected CORROSION 2016 hotels. This service is only for attendees and exhibitors staying at the selected official hotels. Transportation will begin on Sunday, March 6, and continue through Thursday, March 10. Detailed schedules will be posted in the CORROSION 2016 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 Awards Dinner, is business casual. Attire for the Awards Dinner 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 e-mail on our 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 nace.org/corporate-membership.

Express Pass and Registration

CORROSION 2016 Registration will be located in Exhibit Hall A of the Vancouver Convention Centre.

My Itinerary

View your personal schedule of events, forums, symposia, and technical committee meetings before you attend conference. Access the CORROSION 2016 visual schedule at 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 Kiosks

Got a question? We can help. NACE staff will be available to help you with directions or answer general conference questions. The kiosks will be located at the entrance of the convention center and the entrance to the exhibit hall in the Vancouver Convention Centre. More details will follow in the Final Program.

NACE Bookstore

Expand your technical library! The NACE Bookstore will return to CORROSION 2016 with a selection of titles that will keep your library stocked with corrosion-related resources. Located on the upper level, near meeting rooms, you'll have time to browse between meetings or stop and relax for a bit. As an added bonus, member pricing will be given on all purchases on-site during conference!

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. Certificates are based solely on the information provided to NACE at the time of printing.

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CORROSION 2016 Conference Papers

The CORROSION 2016 conference proceedings will be available on CD and online. Please see below for pricing details. *Conference proceedings may be made available in a different formation other than CD.*

Free CD or Online Access	\$99 USD for CD or Online Access
Register before January 4, 2016	Registered after January 4, 2016
Full paid conference attendees	Not attending CORROSION 2016
Full exhibitor comp registration	
Student registrants	



Please join us as at

ENGAGING WOMEN IN LEADERSHIP



THURSDAY, MARCH 10, 2016
8:30 A.M. TO 1P.M.
VANCOUVER CONVENTION CENTRE

For over a decade, CORROSION attendees have benefited professionally and personally from the Women in Corrosion luncheon.

In response to the industry's growing need for more leaders, we've expanded this event to a half-day workshop, **Engaging Women in Leadership**.

Featuring Keynote Speaker: Dr. Teri Reed
*Assistant Vice Chancellor of Academic Affairs for Engineering,
The Texas A&M University System*
Associate Professor, Petroleum Engineering, Texas A&M University

The workshop will:

- Enhance networking opportunities intended to inspire attendees to pursue leadership positions
- Provide insight into career advancement through personal and professional development strategies
- Deliver ways to support and mentor others to leadership success
- Convey ideas about organizational preparedness and awareness of the need for diverse leadership teams

\$50 per person including breakfast *Tickets can be purchased during the conference registration process.*



Registration Types

CORROSION 2016 REGISTRATION								
TYPE	PRICE		INCLUDED IN REGISTRATION					
	NACE MEMBER	NONMEMBER	SYMPOSIA	MEETINGS/ FORUMS	EXHIBITS	TUESDAY LUNCH	ONLINE ACCESS OR CD-ROM	GUEST PROGRAM
Advance Full Week (before 1/4/2016)	\$625	\$755	●	●	●	*	●	
Regular Full Week (after 1/4/2016)	\$725	\$915	●	●	●	*		
One-Day (S, M, or Th)	\$330	\$430	▲	▲	▲			
One-Day (T or W)	\$350	\$450	▲	▲	▲	▲*		
Two-Day (S, M, or Th)	\$470	\$580	▲	▲	▲			
Two-Day (T & W)	\$505	\$605	▲	▲	▲	▲*		
Exhibit Visitor	\$75	\$75			●	*	●	
Student (before 1/4/2016)	FREE	FREE	●	●	●	*	●	
Student (after 1/4/2016)	\$70	\$70	●	●	●	*		
Guest Program (before 1/4/2016)		\$120			●			●
Guest Program (after 1/4/2016)		\$145			●			●
Northern Lights & Bites		\$10						
Casino Night Vancouver		\$50						
Retro Rewind		\$50						
Engaging Women in Leadership Workshop		\$50						
Fellows Breakfast		\$10						
NACE Race		\$20						

▲ Available for the day(s) of registration only. * Lunch available on Tuesday only.

General Registration Information

Advance registration is available online from October 5, 2015, until January 4, 2016. Online registrations will be accepted until February 26, 2016. After February 26, 2016, registrations will only be accepted on-site at the Vancouver Convention Centre in Canada.

Advance/Full Registration

In the categories listed above, fully paid conference attendees who register by January 4, 2016, will have exclusive access online or have the option of a CD of all technical symposium papers presented at the conference. Access will be available on March 6, 2016. An online subscription or CD of the 2016 conference papers can also be purchased at conference registration or on the NACE Web site for a flat rate of \$99 USD for non-full conference registrants.

One- and Two-Day Registrations

One- and two-day registrations allow registrants access to areas listed above on the selected day(s) registered and include online access to all technical symposium papers.

Student Registrations

To learn about the qualifications for becoming a NACE student member and requirements for student registration, visit 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 nacecorrosion.org or see p. A89 for guest program details.

Registration & Housing

Important Dates & Information

OCTOBER 5, 2015	
Housing opens	We recommend that you select your hotel early to ensure you are able to book a room at your preferred hotel.
Registration opens	Register online at nacecorrosion.org .
	Mail: NACE International 15835 Park Ten Place Houston, TX 77084 USA
	Fax: +1 281-228-6329
	Tel: 1 800-797-6223 (U.S. & Canada) or +1 281-228-6223 (Worldwide)
Payment information	NACE accepts checks, money orders, or credit card payments. Invoices will not be issued.
JANUARY 4, 2016	
Advance registration closes	After January 4, registrations will be processed at the on-site price.
FEBRUARY 12, 2016	
Housing closes	All changes, cancellations, and reservations must be handled directly by the hotels, not the housing bureau.
FEBRUARY 26, 2016	
Online registration closes	After February 26, registrations will only be accepted at the Vancouver Convention Centre in Vancouver, BC, Canada.
MARCH 6, 2016	
CORROSION 2016 begins	For times and locations of on-site registration, please visit nacecorrosion.org/registration .
MARCH 10, 2016	
Exhibit Hall closes	noon
Registration closes	2 p.m.
Bookstore closes	2 p.m.
NACE office closes	4 p.m.

Conference Registration Payment and Information

Registrations 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. A NACE representative will contact you.

Registration Policies

Check refunds are processed after the conference. There are no refunds on exhibit visitors, or networking tickets. Registrations are nonrefundable. Registrations received after February 26, 2016, will be processed on site.

Cancellation Policies

All cancellations MUST BE IN WRITING. If you cancel 35 DAYS PRIOR to the conference you will receive a refund of 50%. If you cancel from 34 DAYS to 3 DAYS PRIOR to the conference you will receive a refund of 10%. NO REFUNDS will be given 3 DAYS or less prior to the conference. No refunds given for no-shows.

IMPORTANT CONTACTS	U.S.	INTERNATIONAL	E-MAIL
Registration Services & General Questions	1 800-797-6223	+1 281-228-6223	FirstService@nace.org
Housing Information	1 877-305-5195	+1 980-819-4638	nace@conferencedirect.com
Membership Services	1 800-797-6223	+1 281-228-6223	FirstService@nace.org
NACE Conferences	+1 281-228-6263	+1 281-228-6263	calae.mcdermott@nace.org
NACE Exhibits	+1 281-228-6227	+1 281-228-6227	jackie.hune@nace.org
NACE Sponsorships	+1 281-228-6299	+1 281-228-6299	sales@nace.org
Conference Symposium Papers	+1 281-228-6218	+1 281-228-6218	papers@nace.org

Official Conference Hotels

nacecorrosion.org

#	HOTEL NAME	HOTEL ADDRESS	RATES (CAD)	
			SINGLE/DOUBLE	TRIPLE/QUAD
1	Pan Pacific Vancouver Hotel	360-999 Canada Place, Vancouver V6C3B5	\$205	\$235
2	Fairmont Waterfront	900 Canada Place Way, Vancouver V6C3L5	\$199	\$219
3	Coast Coal Harbour Hotel	1180 W. Hastings St., Vancouver V6E4R5	\$189	\$214
4	Days Inn Vancouver Downtown	921 W. Pender St., Vancouver V6C1M2	\$135	\$150
5	Delta Vancouver Suites	550 W. Hastings St., Vancouver, V6B1L6	\$185	\$205
6	Fairmont Hotel Vancouver	900 W. Georgia St., Vancouver V6C2W6	\$189	\$209
7	Fairmont Pacific Rim	1038 Canada Place, Vancouver, V6C0B9	\$229	\$249
8	Four Seasons Hotel Vancouver	791 W. Georgia St., Vancouver V6C2T4	\$195	\$225
9	Hyatt Regency Vancouver	655 Burrard St., Vancouver V6C 2R7	\$189	\$209
10	Metropolitan Hotel Vancouver	645 Howe St., Vancouver V6C2Y9	\$165	\$189
11	Vancouver Marriott Pinnacle Downtown	1128 W. Hastings St., Vancouver V6E4R5	\$195	\$215
12	Sheraton Vancouver Wall Centre Hotel	1088 Burrard St., Vancouver V6Z2R9	\$170	\$190
13	Renaissance Vancouver Harbourside Hotel	1133 W. Hastings St., Vancouver V6E3T3	\$195	\$215
14	Westin Bayshore Vancouver	1601 Bayshore Dr., Vancouver V6C2V4	\$189	\$219



Ways to Reserve Your Room

Internet Reservations

To secure your reservation online, please visit nacecorrosion.org. You will receive an automatic acknowledgement e-mail 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 2016 Housing at **1 877-305-5195, +1 980-819-4638 (International)**, or e-mail nace@conferencedirect.com.

Accommodations at the official conference hotels in Vancouver may also be completed through NACE International during the CORROSION 2016 registration process online. The deadline to reserve a room through NACE International in the course of online registration is February 12, 2016. After February 12, 2016, hotel reservations and conference registration will no longer be available through the NACE International Web site.

Faxed Reservations

To reserve your hotel room via fax, please visit nacecorrosion.org, download and complete the reservation form, and fax it to **+1 704-927-1439**. Please be sure to include your preferred hotel when filling out the form. Housing forms received via fax require 48 hours for processing and receipt of acknowledgement via e-mail. If you do not receive your acknowledgement in this time frame, please contact CORROSION 2016 Housing at **1 877-305-5195, +1 980-819-4638 (international)**, or e-mail nace@conferencedirect.com.

Mailing Reservations

To reserve your hotel room via U.S. mail, please visit nacecorrosion.org, download and complete the reservation form, and mail it to:

**NACE International CORROSION 2016 Housing, c/o ConferenceDirect
5600 Seventy Seven Center Dr., Ste. 240
Charlotte, NC 28217**

Please be sure to include your preferred hotel when filling out the form.

Once received via mail, housing forms received require 48 hours for processing and receipt of acknowledgement via e-mail. If you do not receive your acknowledgement in this time frame, please contact CORROSION 2016 Housing at **1 877-305-5195, +1 980-819-4638 (international)**, or e-mail nace@conferencedirect.com.

ALERT! ConferenceDirect is the ONLY APPROVED HOUSING AGENCY FOR NACE CORROSION 2016 in Vancouver, BC, Canada.

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)**.

Don't Miss These Important CORROSION Deadlines!

October 5, 2015

Registration for CORROSION 2016 Opens

January 4, 2016

Advance Registration Deadline

February 26, 2016

Regular Registration Deadline

March 6, 2016

CORROSION 2016 Begins in Vancouver, BC, Canada

Don't miss these new educational and networking events in Vancouver!

Symposia:

Control and Management of Corrosion and Scaling from Inland to Subsea Fields—*See p. A19*

Corrosion in Oil Sands—*See p. A18*

Corrosion Monitoring Technologies for Industrial Applications—*See p. A18*

Electrochemical Corrosion Control of Steel in Concrete—*See p. A18*

Research Topical Symposium: Hydrogen Effects in Cracking—*See p. A21*

Industrial Water Treatment: Trends, Challenges, and Solutions—*See p. A20*

Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele—*See p. A19*

Novel Use of Multielectrode Systems for Corrosion Monitoring and Studies—*See p. A18*

Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion Inhibitors—*See p. A17*

Practical Field Application of Cathodic Protection in Oil and Gas Production—*See p. A17*

Research in Progress Symposium Session: In Situ Methods for Corrosion Analysis—*See p. A21*

Research in Progress Session: Integrated Computational Materials Engineering (ICME) and Corrosion—*See p. A21*

Technical Committee Meetings

The following new committees are meeting at CORROSION 2016:

- Task Group (TG) 502, 3D Laser and Structured Light—*See p. A26*
- Technology Exchange Group (TEG) 503X, Practical Application of Water Treatment in Industrial and Commercial Settings—*See p. A24*
- TG 504, Inspection Methods for Corrosion Evaluation of Prestressed Concrete Structures—*See p. A23*
- TEG 509X, Materials Selection and Control in the Mineral Processing Industries—*See p. A26*
- TEG 514X, Oil and Gas Exploration Corrosion: Information Exchange—*See p. A25*
- TG 518, Soluble Salt Testing Frequency and Locations on Previously Coated Surfaces—*See p. A23*

- TG 521, Testing of Nonshielding Property of Pipeline Coatings to Cathodic Protection—*See p. A28*
- TG 525, Determining True Insulative Value of Liquid Insulative Materials Applied on Steel Surfaces—*See p. A23*
- TG 536, Evaluation of Carbon and Low-Alloy Steels for Resistance to Stress-Oriented Hydrogen-Induced Cracking (SOHIC)—*See p. A25*

Networking Events

Northern Lights & Bites—*See p. A35*

Saturday, March 5

Please join NACE International and the NACE Northern Area's Atlantic Canada, British Columbia, Calgary, Edmonton, and Toronto Sections as we kick off CORROSION 2016 and welcome you to beautiful Vancouver with live entertainment, Canadian appetizers, and drinks.

Casino Night Vancouver—*See p. A35*

Sunday, March 6

Are you feeling lucky? Kick off your week on a winning streak at the NACE Foundation's Casino Night Vancouver!



Marquee Sponsor:



Corrosive Chronicles—*See p. A42*

Tuesday, March 8 and Wednesday, March 9

CORROSION: Opportunities Realized—

See p. A37

Wednesday, March 9

The NACE Foundation is hosting a day-long mini-camp for local high school students to educate and spread corrosion awareness to the next generation.



Sponsored by



Engaging Women in Leadership Workshop—*See p. A38*

Thursday, March 10

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

Sunday, March 6

Management of MIC in the Oil, Gas and Petroleum Industry

This forum will present practical examples of MIC management in a variety of systems found in the oil, gas, and petroleum industry. Case studies will demonstrate how operators are addressing the threat of MIC as part of a corrosion management system. The forum will focus on pros and cons of the newly introduced molecular microbiological methods in the industry. **Chair: Dr. Torben Lund Skovhus, VIA University College**

Chinese Society for Corrosion and Protection Seminar

Originating from ACCE Seminars, this forum is organized by the Chinese Society for Corrosion and Protection and aims to promote the communication and collaboration among Chinese corrosion professionals worldwide. The forum will include six to seven technical presentations from renowned corrosion scientists and engineers with topics covering the oil and gas industry, nuclear industry, marine corrosion, corrosion informatics, and more. **Chair: Guang-Ling Song, General Motors Research & Development Center**

How to Avoid Premature Coatings Failures

This series continues as we know how coating failures cost contractors, facility owners, shipbuilders, and paint manufacturers substantial sums of money every year. This tutorial is based on real-life coating failures investigated by the presenter during his 34 years in the coatings industry. It is filled with numerous examples from approximately 30 different failure investigations with pictures of actual coating failures on steel and concrete. It will provide participants with practical knowledge, based on principles and on errors made by others, regarding how to reduce or avoid premature coating failures. **Chair: Mike O'Brien, Mark 10 Resource Group**

Monday, March 7

Thermal Spray Coatings Forum

This is the forum to come to if you are seeking answers about thermal spray coatings. There will be a lively discussion about thermal spray processes, equipment, applications, and industry usage.

- Processes covered will include oxy-fuel flame spraying (powder, wire, and rod), high-velocity oxy-fuel (HVOF) spraying, cold spraying, plasma spraying, and twin-wire electric arc spraying.
- Equipment will be on display. Several spray guns will be available for attendees to handle and discuss throughout the class. Other larger items such as complex systems and spray booths will be illustrated and discussed.
- Application examples will be presented for a variety of requirements from several different industries.
- Industry usage charts will be reviewed listing several processes and coating applications used by various industries.

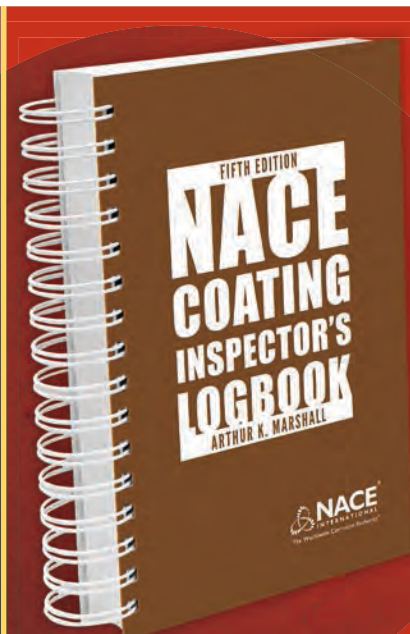
Please be prepared to ask lots of questions and share your thoughts at this forum. **Speaker: James Weber, Sulzer Chemtech USA**

NACE Transportation Structures Forum

This bridge forum will have presentations that include:

- An update on bridge preservation efforts
- Three maintenance painting options on a single three-span truss bridge in Western Canada
- A presentation from AASTHO on its NTPEP program
- Project case history
- Open discussion on bridge maintenance issues

Chair: Greg Richards, KTA-Tator



NACE Coating Inspector's Logbook, Fifth Edition

by **Arthur K. Marshall**

- Provides step-by-step job-specific entry spaces for the entire coating or lining project
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Tuesday, March 8

Working in the Pipeline Industry: The Real World Need for a Safety Culture

Part 1—PHMSA Pipeline Safety

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 latest developments.

Part 2—Corrosion & Punishment

As long as there are corrosion failures that result in loss of life, there will be the possibility for corrosion experts to be held criminally responsible based upon their actions or inactions. Leading attorneys will again address NACE members on what they can do to minimize their exposure to criminal prosecution based on the consequences of a corrosion failure in their work.

Chair: Kevin Garrity

Water Forum: Innovations and Advances in the Water Industry

This forum is for water industry leaders and practitioners to exchange innovative ideas and advances within the water and wastewater industry.

International Pipeline Operators Council

Join NACE International's Pipeline Operators Council members in a roundtable panel discussion on key challenges and opportunities facing pipeline operators around the world. Pipeline operators give their perspective on the industry and answer questions from attendees.

Wednesday, March 9

NIICAP—The New NACE International Institute Contractor Accreditation Program

This forum will discuss the new industry-designed and driven program providing accreditation for contractors who achieve professional project management and performance in the surface preparation and coating or lining application industry. **Chair: T.J. Mead, OnPoint Solutions**

Thursday, March 10

Workshop

Engaging Women in Leadership Workshop

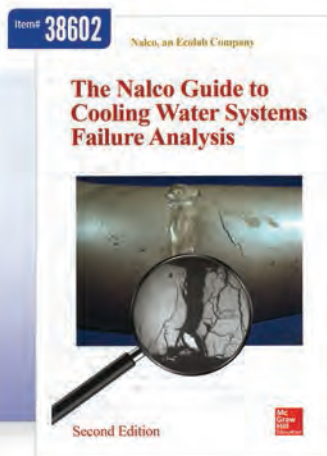
For nearly a decade, NACE International annual conference attendees have benefited from the Women in Corrosion event. In response to the corrosion industry's growing need for professionals, this annual networking event is being expanded to a half-day workshop.

The workshop will include renowned keynote speakers from both inside and outside of the NACE community. The interactive programming will:

- Enrich professional development and networking opportunities
- Inspire attendees to pursue leadership positions in the corrosion industry
- Provide personal and professional development strategies
- Address the value of diverse leadership teams in organizations
- Present tactics for coaching and mentoring others on their path to leadership

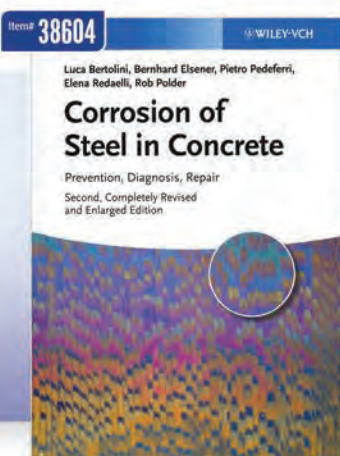
New Books at NACE

For a complete selection, visit nace.org/store.



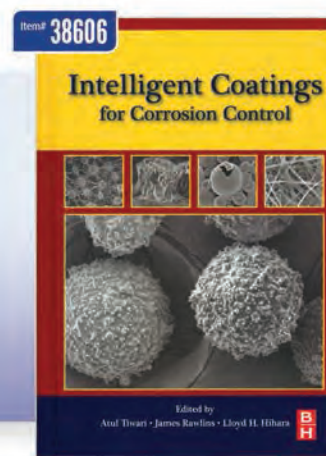
The most complete, current guide to failure analysis for cooling water systems.

List: \$125 USD



Examines the different aspects of corrosion of steel in concrete.

List: \$190 USD



Covers the most current and comprehensive information on the emerging field of intelligent coatings.

List: \$170 USD

Please note that the dates given for these symposia are tentative; if papers are retracted, the lengths of some symposia may be shortened. For the most up-to-date listing, visit nacecorrosion.org.

Monday, March 7

Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion Inhibitors

Chair: Ziru Zhang | Vice Chair: Johnathon Brooks

This symposium contains technical papers on the study of mechanisms of corrosion inhibition, and application of corrosion inhibitors in oil and gas or other industries. **Sponsored by TEG 059X/TEG 184X**

Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)

Chair: Elizabeth Whitsitt | Vice Chair: Leo Caseres

This symposium contains technical papers documenting research and development into wear coatings and hard-face coatings for use in oil and gas drilling and production systems. **Sponsored by STG 33**

Corrosion Management

Chair: Sami Al-Chamdi | Vice Chair: Gareth John

This symposium contains technical papers on corrosion management within all industries. **Sponsored by STG 08**

Corrosion in Gas Treating

Chair: Scott Waite | Vice Chair: Lawrence White

This symposium contains technical papers on topics related to corrosion and materials issues within the gas treating industry including gas sweetening, dehydration, and compression. Topics will explore case histories, materials performance, corrosion mechanisms, and failure analysis. **Sponsored by TEG 113X**

Recent Experience with Austenitic and Duplex Stainless Steel

Chair: Nicole Kinsman | Vice Chair: Jim Fritz

This symposium contains technical papers on recent experiences with stainless steels. The focus is on end user reports from process industries such as chemical processing, pulp and paper, oil and gas, desalination, pharmaceutical, and power generation. Topics include successes, failures, material selection, and fabrication. **Sponsored by TEG 114X/TEG 116X**

High-Temperature Issues and Materials for the Process Industry

Chair: Vilupanur Ravi | Vice Chair: Jim Myers

This symposium contains technical papers on all aspects of high-temperature issues and materials. Topics of interest include high-temperature alloys, materials inspection, life assessment, carburization, metal dusting, creep, service failures, test methods, and high-temperature coatings. **Sponsored by TEGs 123X, 126X, 278X, 270X**

Fluid-Induced Degradation—Corrosion/Erosion and Their Interactions

Chair: Hernan Rincon | Vice Chair: Farid Samie

This symposium contains technical papers for research and field practical studies that address the influence of flow on erosion and corrosion. The emphasis of the symposium is on the mechanistic aspects, but highlighting the

practical implications of the findings is encouraged. Some examples of the topic of interest are the effect of flow on corrosion inhibition, performance of corrosion-resistant alloys under erosion/corrosion conditions, erosion/corrosion prediction modeling, and the effect of multiphase flow and flow pattern on erosion/corrosion. **Sponsored by TEG 213X**

Microbially Influenced Corrosion (Day 1)

Chair: Tingyue Gu | Vice Chair: Faisal Alabbas

This symposium focuses on an exchange of information as to the mechanisms, case histories, and information related to microbially influenced corrosion (MIC). **Sponsored by TEG 187X**

Pipeline Integrity (Day 1)

Chair: Sherif Hassanien | Vice Chair: Neb Uzelac

This symposium contains technical papers on all aspects of pipeline integrity that can include pipeline integrity management, inspection, inline inspection, assessment, mitigation, rehabilitation, operational aspects, regulatory issues and current technologies, methods, experiences, case studies, etc. **Sponsored by TEG 267X**

Practical Field Application of Cathodic Protection in Oil and Gas Production

Chair: Dawn Eden | Vice Chair: Kehinde Ogun

This symposium contains technical papers focused on the practical application of cathodic protection in offshore and onshore oil and gas applications. **Sponsored by STG 30**

Corrosion in Nuclear Systems (Day 1)

Chair: Florent Bocher

This symposium contains technical papers related to materials degradation issues in existing and new advanced light and heavy water reactors, nuclear power plants, and associated components and support systems. **Sponsored by TEG 224X**

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

Chair: Sytze Huizinga | Vice Chair: Julio Maldonado

This symposium contains technical papers on evaluation and methods of selection of materials for all types of equipment used in oil and gas production. **Sponsored by STG 32**

Tuesday, March 8

Corrosion in Supercritical Systems

Chair: Fernando Farelas | Vice Chair: Shiladitya Paul

This symposium contains technical papers that address the measurement or assessment of corrosion in any supercritical system, including supercritical water and supercritical carbon dioxide. Papers are of a research or industrial nature. **Sponsored by TEG 121X**

Hydrogen Permeation

Chair: Frank Dean | Vice Chair: Chris Fowler

This symposium contains technical papers relating to hydrogen permeation measurements, phenomena, and applications. **Sponsored by TEG 108X**

Managing Corrosion with Polymers

Chair: Kira Townsend | Vice Chair: Thom Johnson

This symposium contains technical papers that show innovative ways in which polymer-based and composite materials are used to solve corrosion problems. **Sponsored by TEG 191X**

Refining Industry Corrosion

Chair: Joel Williams | Vice Chair: Joe Koerner

This symposium contains technical papers on topics related to corrosion and materials issues within the refining industry. Topics will explore case histories, materials performance, corrosion mechanisms, and failure analysis.

Sponsored by TEG 205X

Corrosion in Oil Sands

Chair: Jerry Bauman | Vice Chair: Wes McKinnon

This symposium contains technical papers related to corrosion in oil sands facilities including mining and thermal operations. **Sponsored by TEG 341X**

Corrosion Issues in Military Equipment and Facilities

Chair: Courtney Guasti | Vice Chair: Sean Morefield

This symposium contains technical papers that address corrosion related to military equipment, systems, electronics, and infrastructure. **Sponsored by STG 40**

Marine Corrosion

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

This symposium contains technical papers on all aspects of marine corrosion including marine atmospheric corrosion.

Sponsored by STG 44

Microbially Influenced Corrosion (Day 2)

Chair: Tingyue Gu | Vice Chair: Faisal Alabbas

This symposium focuses on an exchange of information as to the mechanisms, case histories, and information related to microbially influenced corrosion (MIC). **Sponsored by TEG 187X**

Pipeline Integrity (Day 2)

Chair: Sherif Hassanien | Vice Chair: Neb Uzelac

This symposium contains technical papers on all aspects of pipeline integrity that can include pipeline integrity management, inspection, inline inspection, assessment, mitigation, rehabilitation, operational aspects, regulatory issues and current technologies, methods, experiences, case studies, etc.

Sponsored by TEG 267X

Corrosion in Nuclear Systems (Day 2)

Chair: Florent Bocher

This symposium contains technical papers related to materials degradation issues in existing and new advanced light and heavy water reactors, nuclear power plants, and associated components and support systems.

Sponsored by TEG 224X

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

Chair: Sytze Huizinga | Vice Chair: Julio Maldonado

This symposium contains technical papers on evaluation and methods of selection of materials for all types of equipment used in oil and gas production.

Sponsored by STG 32

Wednesday, March 9

Electrochemical Corrosion Control of Steel in Concrete

Chair: Jonah Kurth | Vice Chair: Andrea Sanchez

This symposium is seeking technical papers on cathodic protection, of both impressed current and galvanic anode type, and chloride removal and criteria for effective protection. **Sponsored by TEG 043X**

Underdeposit Corrosion

Chair: Probjot Singh | Vice Chair: Hua Guan

This symposium is seeking technical papers relating to corrosion/erosion caused by underdeposit solids, fundamentals, and field cases.

Sponsored by TEG 092X

Control of Problematic Microorganisms in Oil and Gas Field Operations

Chair: Jennifer Harris | Vice Chair: Jason S. Lee

This symposium contains technical papers that cover the impact of troublesome microorganisms in the oil, gas, and petroleum industry. Case studies of problems such as biofouling/plugging, microbiologically influenced corrosion (MIC), fluid separation, and biogenic sulfide production, as well as papers that describe recent advancements in microbial monitoring or mitigation, are encouraged. **Sponsored by TEG 286X**

Corrosion Control in the Pulp, Papermaking, and Biomass Conversion Industries

Chair: Catherine Noble

This symposium contains technical papers related to the pulp, papermaking, and biomass conversion processes. **Sponsored by STG 38**

Corrosion of Biomedical Materials and Devices

Chair: Shari Rosenbloom | Vice Chair: Akram Alfantazi

This symposium contains technical papers concerning the effects of the biological environment within the human body as it pertains to the performance of biomedical materials and devices. Topics include corrosion failure analysis, oxidation of metals and polymers, case histories, and testing for biocompatibility. **Sponsored by TEG 331X**

Corrosion Monitoring Technologies for Industrial Applications

Chair: Sean Brossia | Vice Chair: Kwei-Meng Yap

This symposium contains technical papers related to corrosion measurement and monitoring technologies including sensors and devices for online, real-time measurements. User experience studies, electrochemical, and thickness-based monitoring applications/case studies are included. **Sponsored by TEG 100X**

Novel Use of Multielectrode Systems for Corrosion Monitoring and Studies

Chair: Haitao Fang

This symposium contains technical papers that study the novel electrochemical monitoring techniques that can be used for corrosion monitoring in the oil and gas industry. The study focuses on multielectrode systems. **Sponsored by TEG 316X**

Modeling of Corrosion Prediction from System Conditions

Chair: Thomas Pickthall

This symposium contains technical papers related to predicting corrosion from system conditions. **Sponsored by TEG 201X**

Anodic and Cathodic Protection

Chair: Bruce Ellis | Vice Chair: James Brumley

This symposium contains technical papers relating to the corrosion industry in both old technology and new. **Sponsored by STG 05**

Top-of-the-Line Corrosion

Chair: Alyn Jenkins | Vice Chair: Yao Xiong

This symposium contains technical papers on research and mitigation of top-of-the-line corrosion. **Sponsored by STG 61**

Oil/Gas Coating Technology Symposium (Day 1)

Chair: Benjamin T. Chang | Vice Chair: Andy Bodington

This symposium contains technical papers related to (1) CUI coating test method development and challenges, (2) insulative coating development, (3) new offshore coating technology, (4) new pipeline coating materials, (5) underfilm corrosion mechanism, (6) cold wall effect mechanism, (7) coating-steel interfacial adhesion mechanism, and (8) thermo-oxidative degradation of coatings. **Sponsored by STG 02/STG 03**

Industrial Water Treatment: Trends, Challenges, and Solutions (Day 1)

Chair: Zahid Amjad | Vice Chair: Tao Chen

This symposium contains technical and review papers with focus on the following topics: new technologies to mitigate scaling/fouling; green, hybrid, modified inhibitors; new inhibitor screening methodologies; inhibitors/dispersants for stressed operating conditions; new developments on online monitoring; predictive modeling to control mixed scales; etc. **Sponsored by STG 11**

Sour Corrosion (Day 1)

Chair: Khlefa Esaklul | Vice Chair: Hejian Sun

This symposium contains technical papers related to sour corrosion mechanism study, sour corrosion management, and best practices in the industry. **Sponsored by TEG 282X**

Control and Management of Corrosion and Scaling from Inland to Subsea Fields

Chair: Jin Huang | Vice Chair: Carlos Menendez

This symposium contains technical papers related to onshore and offshore corrosion and scale. **Sponsored by TEG 202X**

Environmentally Assisted Cracking (Day 1)

Chair: Sai Venkateswaran | Vice Chair: Xi Shan

This symposium contains technical papers related to understanding all kinds of 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, laboratory testing methods, materials modeling, industry standards development, state-of-the-art EAC research reviews, and so on. **Sponsored by TEG 186X**

Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 1)

Chair: Mariano Iannuzzi | Vice Chair: Ajit Mishra

This symposium contains technical papers that discuss the mechanisms of localized corrosion on any type of materials and the metallurgical and environmental factors affecting them. It is presented in memory of Professor J.R. Galvele and will have several well-known keynote speakers. **Sponsored by TEG 407X**

Thursday, March 10

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

Chair: Larry Paul | Vice Chair: Suresh Divi

This symposium contains technical papers related to experiences with corrosion-resistant alloys such as nickel, titanium, and zirconium alloys in both aqueous and high-temperature environments. **Sponsored by STG 39**

Geothermal System Corrosion and Scaling

Chair: Helmuth Sarmiento Klapper | Vice Chair: Jasbir Gill

This symposium contains technical papers relating to scale and corrosion control in geothermal power production. **Sponsored by TEG 182X**

Inhibitors—Vapor Transported (VCI) and Surface Coatings/Rust Preventives

Chair: Britt Minch

This symposium contains technical papers related to inhibitors, vapor transported (VCI) and surface coatings and rust preventives (RP), technical advances and research, novel applications, test methods, and materials. **Sponsored by TEG 093X/TEG 145X**

Advances in Corrosion Control in Combustion and Conversion

Chair: Vinay Deodeshmukh | Vice Chair: Mathias Galetz

This symposium contains technical papers about corrosion and materials technology in combustion and conversion of fossil fuels, biomass, waste fuels, waste heat recovery, and power production from concentrated solar power. **Sponsored by TEG 183X**

Corrosion and Corrosion Control of Buried Piping in Nuclear Power Plants

Chair: Hank Kleinfelder | Vice Chair: Gabriel Ogundele

This symposium contains technical papers on the condition assessment of buried piping in nuclear power plants in terms of inspection methodologies, coating assessment, and cathodic protection (design, installation, and monitoring). **Sponsored by TEG 465X**

Direct Assessment

Chair: Robert Winters | Vice Chair: Joseph Pikas

This symposium contains technical papers related to the continuing dynamic development of direct assessment processes. Specific topics focus on external corrosion (ECDA), internal corrosion (ICDA), or stress corrosion cracking direct assessment (SCCDA) research, technology, and integrity. **Sponsored by STG 35**

Oil/Gas Coating Technology Symposium (Day 2)

Chair: Benjamin T. Chang | Vice Chair: Andy Bodington

This symposium contains technical papers related to (1) CUI coating test method development and challenges, (2) insulative coating development, (3) new offshore coating technology, (4) new pipeline coating materials, (5) underfilm corrosion mechanism, (6) cold wall effect mechanism, (7) coating-steel interfacial adhesion mechanism, and (8) thermo-oxidative degradation of coatings. **Sponsored by STG 02/STG 03**

Industrial Water Treatment: Trends, Challenges, and Solutions (Day 2)

Chair: Zahid Amjad | Vice Chair: Tao Chen

This symposium contains technical and review papers with focus on the following topics: new technologies to mitigate scaling/fouling; green, hybrid, modified inhibitors; new inhibitor screening methodologies; inhibitors/dispersants for stressed operating conditions; new developments on online monitoring; predictive modeling to control mixed scales; etc. **Sponsored by STG 11**

Sour Corrosion (Day 2)

Chair: Khlefa Esaklul | Vice Chair: Hejian Sun

This symposium contains technical papers related to sour corrosion mechanism study, sour corrosion management, and best practices in the industry.

Sponsored by TEG 282X

Environmentally Assisted Cracking (Day 2)

Chair: Sai Venkateswaran | Vice Chair: Xi Shan

This symposium contains technical papers related to understanding all kinds of 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, laboratory testing methods, materials modeling, industry standards development, state-of-the-art EAC research reviews, and so on. **Sponsored by TEG 186X**

Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 2)

Chair: Mariano Iannuzzi | Vice Chair: Ajit Mishra

This symposium contains technical papers that discuss the mechanisms of localized corrosion on any type of materials and the metallurgical and environmental factors affecting them. It is presented in memory of Professor J.R. Galvele and will have several well-known keynote speakers. **Sponsored by TEG 407X**



Coating Inspector Program (CIP)

NACE's Coating Inspector Program is the world's most recognized coating inspector certification program. CIP trains coating professionals to properly inspect the surface preparation and application of a protective coating system on a variety of structures in any industry.

To register or for more information, visit
nace.org/cip

Courses include:

- CIP Level 1
- CIP Level 2
- CIP Level 3 Peer Review
- Nuclear Power Plant Training for Coating Inspectors
- CIP One-Day Bridge
- Marine Coating Technology

**All certifications are administered by the NACE International Institute, an independent affiliate of NACE International.*



Research Symposia

The **Research Committee of NACE International** is responsible for all research activities organized or sponsored by the association, including sponsorship of the **Research in Progress (RIP) Symposium**, **Research Topical Symposium (RTS)**, and the **Student Poster Session**.

RESEARCH IN PROGRESS

Monday, March 7

Passivity and Localized Corrosion

Chair: Scott Lillard, University of Akron

Vice Chair: Luis Garfias, Wood Group Kenny

This session covers all aspects of localized corrosion of passivating metals. Fundamental aspects including oxide film formation and properties, breakdown mechanisms, transition to stability, damage accumulation, and repassivation are of interest. All forms of localized corrosion including pitting, crevice, intergranular, and stress corrosion cracking are welcome. Contributions should focus on non-published research or research currently in progress.

Integrated Computational Materials Engineering (ICME) and Corrosion

Chair: Christopher Taylor, DNV GL

Vice Chair: Rajeev Gupta, University of Akron

This Research in Progress session will focus on presentations that describe the application of integrated computational materials engineering (ICME) methods in corrosion science and engineering. Abstracts that emphasize the following aspects are especially targeted:

- Highly complementary models and experiments (i.e., not simply fitting a model to experimental data, or models presented in isolation from experiment)
- Integration of models across physical and chemical phenomena and/or length and time scales
- Incorporation of computational methods with materials design strategies targeting corrosion resistance as a desirable outcome.

Tuesday, March 8

In Situ Methods for Corrosion Analysis

Chair: Joseph Kish, McMaster University

Vice Chair: Geraint Williams, Swansea University

This symposium will provide a forum for all studies of corrosion that involve in situ electrochemical, surface analysis, and high-resolution imaging methods, with the aim of elucidating kinetics and mechanisms associated with corrosion processes. Particular interest will be directed toward techniques providing fresh insight into the localization and/or time dependence of corrosion phenomena on both bare and coated metal surfaces in the presence or absence of corrosion inhibitors. Techniques of interest include, but are not limited to, the following: the scanning Kelvin probe (SKP), scanning Kelvin force microscopy (SKFM), atomic force microscopy (AFM), scanning electrochemical microscopy (SECM), the scanning vibrating electrode technique (SVET) and localized electrochemical impedance spectroscopy (LEIS), in situ optical imaging/microscopy, x-ray synchrotron spectroscopy and tomography, laser scanning microscopy, confocal microscopy, acoustic (ultrasound) microscopy, and magnetic imaging techniques.

Coatings and Inhibitors

Chair: Srdjan Nešić, Ohio University

Vice Chair: Bruce Brown, Ohio University

Presentations for this session are encouraged to review aspects of corrosion mitigation related to the use of protective coatings and corrosion inhibitors.

Areas of interest include, but are not limited to, novel coating and inhibitor development (particularly for environmentally friendly chemistries), accelerated test method development for coatings or inhibitors, modelling of corrosion retardation by inhibitors and coatings, mechanistic studies of soluble and vapor phase inhibitors, and the enhanced understanding of coating/inhibitor protection mechanisms.

RESEARCH TOPICAL SYMPOSIUM

Wednesday, March 9

Hydrogen Effects in Cracking

Chair: Thodla Ramgopal, DNV GL

Vice Chair: Jenifer Warner-Locke, Ohio State University

This session covers stress corrosion cracking and hydrogen embrittlement of materials in oil and gas production systems. Fundamental aspects including modeling of crack tip processes and hydrogen-microstructure interactions, as they apply to corrosion fatigue and stress corrosion cracking, are of interest. The effect of test methods, response of different material systems, as well as challenges in understanding production environments and their relationship to cracking, are of particular interest. Contributors are encouraged to identify gaps in knowledge and discuss new avenues of applied and basic research as it relates to materials in oil and gas production systems.

STUDENT POSTER SESSION

Chair: David Shifler, Naval Research Laboratory

Vice Chair: Jozef Soltis, MACAW Engineering Ltd

The Research Committee sponsors a Student Poster Session at each CORROSION conference to encourage students to become active in NACE and to present the results of their work to the membership. Students may enter posters in one of three categories: (1) the Marcel Pourbaix category for the field of corrosion science; (2) the Mars Fontana category for the field of corrosion engineering; and (3) the Harvey Herro category for the field of applied corrosion technology. First-, second-, and third-place prizes are awarded to winners in each category.

The posters are judged based on the following criteria:

- Scientific/engineering/technology approach
- Content
- Thoroughness
- Novelty of approach
- Potential impact on the corrosion community and/or the public
- Clarity and neatness of presentation

The Poster Session will be located in the Exhibit Hall. The students will staff their posters from 5 to 7 p.m. on Monday and again on Tuesday from noon to 1 p.m. Prizes will be awarded on Wednesday at 12:30 p.m.

The NACE Foundation will present travel scholarships to many students, which enable them to travel to the conference.

Technical Committee Information

nacecorrosion.org

Welcome to NACE International Technical Committees!

NACE International invites you to participate in the 2016 CORROSION Technical Committee Meetings. There has never been a better time to have your voice heard at NACE International, and all conference attendees are welcome to participate!

If you're new to the technical committees at NACE International, do not miss Technical Committees 101 on Sunday, March 6 from 9 to 10 a.m.

Learn the ropes, see what the technical committees are all about, and become involved in the decision-making process.

General NACE International Technical Committees Information

NACE technical committees scheduled to meet during CORROSION 2016 (as of August 31, 2015) are listed on the following pages. Specific meeting rooms will be listed in the Final Program available in Vancouver. For the most up-to-date technical committee meeting listing with the exact meeting times, visit the CORROSION 2016 conference Web site found at nacecorrosion.org.

All technical committee meetings are open to members and nonmembers at CORROSION 2016. 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

- Technical committee meetings at CORROSION 2016 are open to all conference delegates.
- Committees are organized by Specific Technology Groups (STGs) and listed numerically by Technology Exchange Group (TEG), Task Group (TG), and Work Group (WG). The numbers in parentheses are additional sponsoring 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 into consensus documents produced by NACE, and streamline the sharing of technology in less formal ways.



Technical Committee Meetings

REINFORCED CONCRETE: STG 01		
Name	Committee(s)	Day
Reinforced Concrete: Evaluation of Concrete Structures	TG 055 (62)	Sunday
Review and Revise TM0294	TG 472	Sunday
Reinforced Concrete: Design, Evaluation, and Remediation	TEG 053X	Sunday
Reinforced Concrete: Sacrificial Cathodic Protection of Reinforced Concrete Elements	TG 047 (05)	Monday
Reinforced Concrete: Stray-Current-Induced Corrosion	TG 356 (05)	Monday
Reinforced Concrete: Design Considerations for Corrosion Control	TG 290 (41)	Monday
Inspection Methods for Corrosion Evaluation of Prestressed Concrete Structures	TG 504	Tuesday
Testing and Evaluation of Corrosion on Steel-Framed Buildings	TG 460 (46)	Tuesday
Reinforced Concrete: Proposed Revision to NACE SP0290-2007	TG 044 (05)	Tuesday
Reinforced Concrete: Electrochemical Chloride Removal and Realkalization	TG 054 (41)	Tuesday
Reinforced Concrete	STG 01	Wednesday
COATINGS AND LININGS, PROTECTIVE: ATMOSPHERIC: STG 02		
Name	Committee(s)	Day
Determining True Insulative Value of Liquid Insulative Materials Applied on Steel Surfaces	TG 525	Sunday
Hot-Dip Galvanizing for Steel Corrosion Protection	TEG 428X (03, 04)	Wednesday
Test Methods of Determining True Insulation Value of Liquid Insulative Materials Applied on Steel Surfaces from 80 °F to 375 °F	TG 477	Wednesday
STG 02, 03 and 04 Joint Meeting	STG 02	Thursday
COATINGS AND LININGS, PROTECTIVE: IMMERSION AND BURIED SERVICE: STG 03		
Name	Committee(s)	Day
Coating Conductance	TG 030 (05, 35, 62)	Sunday
STG 02, 03 and 04 Joint Meeting	STG 03	Thursday
COATINGS AND LININGS, PROTECTIVE: SURFACE PREPARATION: STG 04		
Name	Committee(s)	Day
STG 02, 03 and 04 Joint Meeting	STG 04	Thursday
Soluble Salt Testing Frequency and Locations on Previously Coated Surfaces	TG 518	Thursday
CATHODIC/ANODIC PROTECTION: STG 05		
Name	Committee(s)	Day
DC Traction Stray Current Problems	TEG 024X (03)	Sunday
Steel, Structural: Corrosion Control of Pilings in Nonmarine Applications	TG 018 (01, 03)	Sunday
Cathodic Protection	TEG 179X	Tuesday
Review of NACE SP0388-2014 and SP0196-2011	TG 167, TG 284 (11, 35)	Tuesday
Cathodic Protection: Pipe-Type Cable	TEG 197X	Wednesday
Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35 Pipelines, Tanks, and Well Casings	STG 05	Thursday

Technical Committee Meetings

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CLEANING, CHEMICAL AND MECHANICAL: STG 06

Name	Committee(s)	Day
Cleaning: Chemical and Mechanical Cleaning	TEG 188X	Wednesday

CORROSION MANAGEMENT: STG 08

Name	Committee(s)	Day
Economics of Corrosion Management	TG 200	Sunday

NONMETALLIC MATERIALS OF CONSTRUCTION: STG 10

Name	Committee(s)	Day
Nonmetallic Material of Construction: Basic Education	TEG 239X (39)	Tuesday
Plastics: Managing Corrosion with Polymer-Based and Composite Materials	TEG 191X (39)	Wednesday
Nonmetallic Materials of Construction	STG 10	Thursday

WATER TREATMENT SYSTEMS: STG 11

Name	Committee(s)	Day
Building Fire Protection Systems: Corrosion and Deposit Control	TEG 159X	Sunday
Fire Protection Systems	TG 381	Sunday
Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining Industries	TEG 389X (34)	Sunday
Review and Revise or Reaffirm NACE Publication 46107	TG 157 (61)	Monday
Review and Revise or Reaffirm SP0590-2015	TG 244 (34, 36, 38, 41, 60)	Monday
Boiler Waterside Failure Analysis	TEG 163X (62)	Monday
Water Treatment, Physical Process: Guidelines for Testing	TG 235 (46, 62)	Tuesday
Cooling Water Equipment, Initial Conditioning	TG 234 (46)	Tuesday
Practical Applications of Water Treatment in Industrial and Commercial Systems	TEG 503X	Tuesday
Biocide Application/Misapplication	TEG 149X	Tuesday
Recovery and Repassivation after Low pH Excursions in Open Recirculating Cooling Water Systems	TG 375	Tuesday

OIL AND GAS PRODUCTION—CATHODIC PROTECTION: STG 30

Name	Committee(s)	Day
Offshore Steel Platforms—Corrosion Control: Review of NACE SP0176	TG 170 (05)	Sunday
National Adoption of ISO 15589-2:2012	TG 169 (05, 35)	Sunday
Cathodic Protection Systems, Retrofit, for Offshore Platforms	TG 168	Sunday
Cathodic Protection in Seawater—Discussion of Current Topics	TEG 166X	Thursday

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

Name	Committee(s)	Day
Oil and Gas Production, Sour Corrosion: Information Exchange	TEG 282X (60, 61, 62)	Sunday
Oil and Gas Production, Oil Sands: Information Exchange	TEG 341X (11, 33, 34)	Sunday
Oil and Gas Production, Internal Erosion and Corrosion: Information Exchange	TEG 077X (62)	Sunday
Oil and Gas Production, Deepwater Corrosion and Scale Control: Information Exchange	TEG 202X (61, 62)	Monday

Technical Committee Meetings

Oil and Gas Exploration Corrosion: Information Exchange	TEG 514X (32, 60)	Monday
Biocides—Oil and Gas Industry	TG 075 (61)	Tuesday
Oil and Gas Production: Microbially Influenced Corrosion	TEG 286X (60)	Wednesday
Oil and Gas Production—Corrosion and Scale Inhibition	STG 31	Thursday
Oil and Gas Production, Internal Erosion and Corrosion: Strategy for Monitoring and/or Detection	TG 245	Thursday

OIL AND GAS PRODUCTION—METALLURGY: STG 32

Name	Committee(s)	Day
Cracking, Stepwise: Pipeline Steels—Review of NACE Standard TM0284	TG 082 (34, 62)	Tuesday
Evaluation of Carbon and Low-Alloy Steels for Resistance to Stress-Oriented Hydrogen-Induced Cracking	TG 536 (34, 62)	Tuesday
Computerized Environmental Cracking Database	TG 257 (34, 62)	Tuesday
Four-Point Bend Test Method	TG 494 (62)	Tuesday
Oil and Gas Production Materials Information Exchange	TEG 374X (33)	Wednesday
Double-Cantilever-Beam (DCB) Test	WG 085c (62)	Thursday
STG 32 Steering Committee	STG 32	Thursday
Sulfide Corrosion Cracking: Metallic Materials Testing Techniques	TG 085 (62)	Thursday
Oil and Gas Production—Metallurgy	STG 32	Thursday

OIL AND GAS PRODUCTION—NONMETALLICS AND WEAR COATINGS (METALLIC): STG 33

Name	Committee(s)	Day
Review and Revise or Reaffirm as Necessary NACE SP0181-2006	TG 500 (03)	Tuesday
Elastomers and Other Nonmetallics for Oilfield Sealing Service	TEG 319X (10, 62)	Wednesday

PETROLEUM REFINING AND GAS PROCESSING: STG 34

Name	Committee(s)	Day
Petroleum Refining Sulfide Stress Cracking (SSC): Review of NACE Standard MR0103	TG 231 (60)	Monday
Petroleum Refinery Corrosion Specialist Certification	TG 393	Monday
API 751 Advisory on HF Alkylation	TG 510	Monday
Carbonate SCC—Update of Publication 34108	TG 347 (60)	Monday
Crude Column OVHD Corrosion—Update of Publication 34109	TG 342	Monday
Crude Quality Parameters for Corrosion	TG 489 (31, 35)	Monday
Refining Information Exchange Session I	TEG 205X	Wednesday
Gas Treating Control Systems Corrosion Minimization	TEG 113X	Wednesday
Refining Information Exchange Session II	TEG 205X	Wednesday
Injection and Mix Points SP0114	TG 174	Thursday
STG 34 Steering	STG 34	Thursday

PIPELINES, TANKS, AND WELL CASINGS: STG 35

Name	Committee(s)	Day
Pipeline Crossings: Steel-Cased, Thrust-Bored, and HDD	TEG 208X (05)	Sunday
Pipelines: Liquid Petroleum Industry Corrosion Control Issues Forum	TEG 314X (02, 03, 04, 05)	Sunday
Revise or Reaffirm as Necessary SP0110-2010	TG 305 (31)	Monday

Technical Committee Meetings

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Review and Revise as Necessary SP0186-2007	TG 440 (05)	Monday
Technical Guidance for Using Self-Propelled In-Line Inspection Devices in the Direct Examination Phase of External Corrosion Direct Assessment	TG 522 (31, 41)	Tuesday
Pipeline Direct Assessment Methodology	TG 041	Tuesday
Steel Pipelines and Piping Systems: Internal Corrosion Control	TG 038	Tuesday
Well Casings, Corrosion Control: Information Exchange	TEG 080X	Tuesday
Pipeline Inspection: In-Line Nondestructive—Review of NACE SP0102-2010	TG 212	Wednesday
Review and Revise as Necessary NACE Publication 35100	TG 039	Wednesday
Pipelines: In-Line Inspection	TEG 267X	Wednesday
3D Laser and Structured Light	TG 502 (05)	Wednesday
Pipeline Corrosion Management	TG 370 (02, 03, 05)	Wednesday
Review and Revise as Necessary NACE Standard TM0212-2012	TG 254	Wednesday
Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35 Pipelines, Tanks, and Well Casings	STG 35	Thursday
PROCESS INDUSTRY—MATERIALS PERFORMANCE IN CHEMICALS: STG 36		
Name	Committee(s)	Day
Sulfuric Acid—Material and Experiences	TEG 115X	Sunday
Materials Selection and Corrosion Control in the Mineral Processing Industries	TEG 509X	Sunday
Hydrochloric Acid and Chlorine: Materials and Experiences	TEG 398X (10)	Monday
CUI: Revision of NACE SP0198	TG 325 (03, 04)	Monday
Failure Prevention Case Histories	TEG 118X (39)	Monday
PROCESS INDUSTRY—HIGH TEMPERATURE: STG 37		
Name	Committee(s)	Day
Materials, Advanced, for High-Temperature Service in the CPI	TEG 123X	Sunday
Metal Dusting and Associated Phenomena: Effects on Materials Performance	TEG 128X (60)	Tuesday
Reformer Components: Material Issues	TEG 270X (34, 39)	Tuesday
Process Industry: High Temperature	STG 37	Tuesday
Materials, High Temperature: Current Issues	TEG 126X (39)	Tuesday
PROCESS INDUSTRIES—MATERIALS APPLICATIONS AND EXPERIENCES: STG 39		
Name	Committee(s)	Day
Stainless Steels: Austenitic and Nickel Alloys	TEG 116X	Sunday
Stainless Steels, Duplex and Ferritic: Application	TEG 114X	Sunday
Metals: Reactive	TEG 120X	Thursday
ELECTRIC UTILITY GENERATION, TRANSMISSION, AND DISTRIBUTION: STG 41		
Name	Committee(s)	Day
Identification of Existing Buried Pipe Coatings in Nuclear Power Plants	TG 485 (03)	Tuesday
Nuclear System Corrosion	TEG 224X	Tuesday
Nuclear Power Plant Buried Pipe Coatings Condition Assessment	TG 481 (03)	Wednesday
Combustion and Conversion of Fossil and Alternative Fuels	TEG 183X	Wednesday
Nuclear Buried and Underground Piping	TEG 465X (03, 05, 35)	Thursday
Electric Utility Generation, Transmission, and Distribution	STG 41	Thursday

Technical Committee Meetings

TRANSPORTATION, LAND: STG 43

Name	Committee(s)	Day
Railcars: Coating Application on Exterior Surfaces of Steel Railcars	TG 339	Tuesday
Maintenance Overcoating of Railcar Exteriors	TG 437 (02, 04)	Tuesday
Surface Preparation by Encapsulated Blast Media for Repair of Existing Coatings on Railcars	TG 379	Tuesday
Review and Revise or Reaffirm as Necessary NACE SP0386-2007	TG 332 (02, 03)	Tuesday
Guidelines for Qualifying Personnel as Abrasive Blasters and Coating and Lining Applicators in the Rail Industry	TG 394 (04)	Tuesday
Coating Thickness Measurement, Methods, and Recording—Specific to the Railcar Industry	TG 450 (02, 03, 04)	Tuesday
Revision of NACE SP0592 (formerly RP0592)	TG 061 (03, 36)	Tuesday
Review and Revise or Reaffirm as Necessary NACE SP0295-2008	TG 333 (03)	Tuesday
Guidelines for Data Collection and Analysis of Railroad Tank Car Interior Coating/Lining Condition	TG 444 (02, 03)	Wednesday
Review and Revise or Reaffirm NACE SP0302-2007	TG 067 (02)	Wednesday
Land Transportation: Information Exchange on Corrosion and Coating-Related Issues	TEG 291X	Wednesday
Transportation, Land	STG 43	Wednesday

MARINE CORROSION: SHIPS AND STRUCTURES: STG 44

Name	Committee(s)	Day
Marine Corrosion of Copper Alloys	TEG 523X	Monday
Marine Corrosion; Ships and Structures TIE	STG 44	Monday

POLLUTION CONTROL, WASTE INCINERATION, AND PROCESS WASTE: STG 45

Name	Committee(s)	Day
FGD Pollution Control Industries Corrosion Control	TEG 230X	Wednesday
Pollution Control, Waste Incineration, and Process Waste	STG 45	Wednesday

CORROSION MECHANISMS: STG 60

Name	Committee(s)	Day
Microbiologically Influenced Corrosion	TEG 187X (11, 46)	Sunday
Atmospheric Corrosion	TEG 189X (02, 40, 62)	Sunday
Biodegradable Magnesium Alloys	TG 495	Monday
Nanotechnology and Corrosion	TEG 474X	Monday
Biomedical Implant Device Corrosion	TEG 331X	Wednesday
Corrosion Mechanisms	STG 60	Thursday

INHIBITION—CORROSION AND SCALING: STG 61

Name	Committee(s)	Day
Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection	TG 261	Wednesday
Inhibitors: Water Reuse Issues in System	TEG 184X (31, 46)	Wednesday
State-of-the-Art Research on Corrosion Inhibitors	TEG 094X	Wednesday
Volatile Corrosion Inhibitors (VCIs)	TEG 093X (11)	Wednesday
Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection: Advances and Novel Applications	TEG 145X (02)	Wednesday

Technical Committee Meetings

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CORROSION MONITORING AND MEASUREMENT—SCIENCE AND ENGINEERING APPLICATIONS: STG 62

Name	Committee(s)	Day
Electrochemical Measurements	TEG 097X (41)	Sunday
Acoustic Emission Testing and Measurement	TEG 098X	Sunday
Hydrogen Permeation Technology—Online	TEG 108X (31, 34)	Sunday
Revise NACE Publication 3T199	TG 390 (11, 31)	Monday
Testing of Nonshielding Property of Pipeline Coatings to Cathodic Protection	TG 521 (03, 05, 30, 35)	Tuesday
Corrosion Monitoring and Measurement	STG 62	Wednesday
Sensors: Corrosion and Corrosiveness Sensor Technology	TEG 100X (41)	Wednesday

The 10th Element Oilfield Engineering with Polymers Conference 2016

Brought to you by



25-27 October 2016, Millennium Gloucester Hotel, London, UK

Unique Insight into Polymer Applications in Oil and Gas

The oil and gas industry continues to need high quality products made out of durable and reliable materials to maximize the lifetime and reliability of its infrastructure.

To address this, Element Materials Technology and NACE International are teaming up to host the **10th Element Oilfield Engineering with Polymers Conference**, a world renowned event that focuses on the application of polymers and other advanced non-metallic materials within the oil and gas industry.

Call for Papers

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for a Paper Today.

Deadline is **30 April 2016**

For more information and to submit a paper go to

oilfieldpolymers.nace.org



TODAY'S STUDENTS



TOMORROW'S SOLUTIONS



CORROSION 2016 Student Events

MONDAY, MARCH 7

Student Poster Orientation Breakfast

8 to 9:30 a.m.

*The Orientation is mandatory for those students participating in the SPS.

NACE U Student Meeting

9:30 to 11:00 a.m.

Student Poster Session

5 to 7 p.m.

30 Below – For Young Professionals Under 30

8 p.m. to 12 a.m.

The Bourbon Country Bar | 50 Cordova Street
Vancouver, BC, Canada

TUESDAY, MARCH 8

Student Poster Session

Noon to 1 p.m.

Career Advancement Center

8:00 a.m. to 5:00 p.m.

NACE Foundation Scholarship Awards and Party (Retro Rewind)

7 to 8 p.m. • 8 to 11 p.m.

Commodore Ballroom | 868 Granville Street
Vancouver, BC, Canada

WEDNESDAY, MARCH 9

Student Poster Session Winners Announced

12:30 p.m.

For more information, visit
nacecorrosion.org

Administrative Meetings

nacecorrosion.org

ADMINISTRATIVE MEETINGS	
Name	Day
Executive Committee/Board Orientation	Friday
Board of Directors Meeting	Saturday
<i>MP</i> Editorial Advisory Board	Sunday
Publications Activities Committee	Sunday
Technical Coordination Committee (TCC)—Session 1	Sunday
Annual Conference Program Committee (ACPC)—Session 1	Sunday
Past Presidents Reception	Sunday
TCC Operations Committee	Monday
Past Presidents Council	Monday
Area Coordination Committee	Monday
Policy Committee	Monday
TCC Planning Committee	Tuesday
TCC Reference Publications Committee (RPC)	Wednesday
Annual Conference Program Committee (ACPC)—Session 2	Wednesday
Research Committee	Thursday
Technical Coordination Committee (TCC)—Session 2	Thursday
Technical and Research Activities Committee (TRAC)	Thursday
Nominating Committee Meeting	Friday
ISO MEETINGS	
Name	Day
OGP 23936 ISO TC67/WG7/TG Non-Metallics	Friday
OGP 23936 ISO TC67/WG7/TG Non-Metallics	Saturday
MR0175/ISO 15156 Maintenance Panel	Sunday
OGP 23963 ISO TC67/WG7/TG Non-Metallics	Sunday
TG 299 Oversight of Maintenance Panel	Sunday
MR0175/ISO 15156 Maintenance Agency	Sunday
ISO TC 35 TAG	Wednesday
ISO TC 156 TAG	Thursday
OTHER MEETINGS	
Name	Day
NACE Foundation Board of Directors	Friday
International Area Directors	Friday
Latin America Board of Trustees	Sunday
Technical Committees 101—Session 1	Sunday
General Membership	Sunday

Other Meetings

NII Policy and Practices Committee	Sunday
NII Specialty Board for Protective Coatings	Sunday
NII Specialty Board for Pipeline Coatings	Sunday
Nigerian Corrosion Professionals	Sunday
East Asia and Pacific Rim Board of Trustees	Sunday
Western Area Board of Trustees	Sunday
Student Poster Orientation Breakfast	Monday
NACE U Student Meeting	Monday
<i>CORROSION</i> Editorial Board	Monday
Awards Committee	Monday
Central Area Board of Trustees	Monday
WCO Board of Administrators	Tuesday
WCO General Assembly	Tuesday
Career Advancement Center	Tuesday
Fellows' Breakfast	Tuesday
Annual Conference Program Committee (ACPC) Symposium Officer Training	Tuesday
European Area Board of Trustees	Tuesday
West Asia and Africa Area Board of Trustees	Tuesday
Eastern Area Board of Trustees	Tuesday
Northern Area Board of Trustees	Tuesday
Student Business Meeting	Tuesday
Technical Coordination Committee (TCC) International Activities Committee	Tuesday
CORROSION: Opportunities Realized Mini-Camp	Wednesday
TCC Technology and Program Coordinator Training	Wednesday
STG Officer Training	Wednesday
Section Officer Forum	Wednesday
NACE British Columbia Section	Wednesday
Student Poster Winners' Lunch	Wednesday



Keynote Session

Steve Kroft
Monday, March 7 • 4:15 p.m.

Award-winning journalist and *60 Minutes* correspondent, **Steve Kroft**, will provide the keynote address at CORROSION 2016. Kroft will provide an inside look at how news is reported and the effects it has on today's society.

Part of protecting people, assets, and the environment from corrosion includes telling the industry's story and Kroft will share his perspective from producing his compelling news segment on the dramatic deterioration of the U.S. infrastructure.

Few journalists have achieved the impact and recognition that Kroft's work has generated for 26 seasons on *60 Minutes*, the most-watched news program on television. His experience will leave a thought-provoking and profound impact on corrosion industry professionals who want the importance of corrosion control and the work they are doing to make news and get the attention it deserves.

In this one-hour keynote program, Kroft will discuss his experience reporting on the state of U.S. infrastructure and lead a conversation about the issues facing the corrosion industry. He will provide actionable insights that NACE and its membership can use to leverage the results of the International Measures of Prevention, Application, and Economics of Corrosion Technology (IMPACT) study to tell the world about the importance and value of corrosion control.



Plenary Lecture

Ken Tator, KTA-Tator
Monday, March 7 • 8 to 8:45 a.m.

Kenneth B. Tator is the chairman of the board of KTA-Tator, Inc., an employee-owned independent consulting engineering firm founded in 1949 specializing in protective coatings and linings, laboratory and failure analysis, and coating instrument sales and service. Tator has been a member of NACE since 1969 and has been involved in a number of NACE coatings and activities committees, including serving on the Board of Directors (1996-1999). He is the recipient of a NACE 2014 Distinguished Service Award. He has presented numerous technical lectures at NACE annual conferences, and published articles in *Materials Performance* and other technical journals. He has a Bachelor of Science degree in chemical engineering from Lafayette College and a MBA from Columbia University. He was a lieutenant in the U.S. Navy, serving with both the Navy and the U.S. Marine Corps.

Plenary Lecture Abstract

"Material Science and Technology in the Digital Age—The Accelerating Pace of Human Knowledge"

Material science and coating technology (as well as science and technology in virtually every other field) have rapidly advanced over the past decade or so. These advances, coupled with the advent of rapid communication via e-mail, and the ability to store and make available vast sums of knowledge in digital-electronic format over the Internet to virtually anyone, is changing the world.

A historical perspective of material and coating advances and human technological evolution, up to the present time, is presented. This perspective enables one to visualize the rapidly accelerating rate of technological change, information availability, and worldwide communication. These changes present opportunities and challenges in the near and distant future that will affect all of us from a personal, professional, and global viewpoint.

Some of these opportunities and challenges will be briefly enumerated and discussed as they relate to our personal, professional, and NACE lives.

Special Lectures

Willis Rodney Whitney Award Lecture

Tuesday, March 8 • 11:30 a.m.

The Whitney Award recognizes public contributions to the science of corrosion.

Frank Newman Speller Award Lecture

Wednesday, March 9 • 11:30 a.m.

The Speller Award recognizes outstanding contributions to the practice of corrosion engineering.

The Whitney and Speller Award lecturers are selected in late 2015. For a complete listing of award winners, see the February 2016 issue of *Materials Performance* or visit nace.org.

Special Meeting



General Membership Business Meeting

Sunday, March 6

4:30 to 5:30 p.m.

The general membership business meeting is open to all NACE International members. NACE officers will provide an overview of the 2014-2015 fiscal year results, announce incoming officers, and provide other pertinent information.

NACE is proud of its 36,000+ members from all over the world and welcomes your participation at this meeting.



Are you feeling lucky?

Sunday, March 6, 2016
Pan Pacific Hotel ♠ Oceanview Rooms

7:30 p.m.
hors d'oeuvres, limited hosted bar, music, strolling magician, showgirls

8:00 p.m.
Casino games, featuring:
Roulette ♠ Craps ♦ Blackjack ♥ Poker ♣ Money Wheel

10:30 p.m.
Drawing for our lucky winners!

Event proceeds benefit the NACE Foundation.
See p. A35 for more information.

Take a chance, roll the dice, and start your week off on a winning streak!



YOU'RE INVITED!

Northern Lights & Bites

Please join NACE International and NACE Northern Area's **Atlantic Canada, British Columbia, Calgary, Edmonton, and Toronto sections** as we kick off CORROSION 2016 and welcome you to beautiful Vancouver with fun entertainment, Canadian appetizers, and drinks.

SATURDAY, MARCH 5, 2016

7 to 9 p.m.

Vancouver Convention Centre

\$10 Admission for CORROSION 2016 Attendees & Guests
All proceeds go to the NACE Foundation of Canada

Feel free to bring your family members, too!

Two free drink tickets are included when you register to attend. Cash bar will also be available. You can purchase tickets to Northern Lights & Bites for you and your guests during the conference registration process or on-site at the event.

We can't wait to see you there!

SPONSORED BY THE NACE NORTHERN AREA SECTIONS:

Atlantic Canada | British Columbia | Calgary | Edmonton | Toronto

 **NACE** NORTHERN
INTERNATIONAL AREA

Networking Activities

F NACE Foundation event

S Student event

Saturday, March 5

Northern Lights & Bites 7 to 9 p.m.

Vancouver Convention Centre

Please join NACE International and the NACE Northern Area's Atlantic Canada, British Columbia, Calgary, Edmonton, and Toronto Sections as we kick off CORROSION 2016 and welcome you to beautiful Vancouver with live entertainment, Canadian appetizers, and drinks.

Register for Northern Lights & Bites during your regular online registration process, and two drink tickets will be included when you register. A cash bar will also be available.

Sponsored by:



Opening Night Reception 5:30 to 7 p.m.

The 2016 Opening Night Reception opens CORROSION 2016 in Vancouver as attendees and exhibitors interact over drinks and hors d'oeuvres. Drink tickets will be provided at registration.

This reception is co-sponsored by Carboline Company and NACE International. The two organizations are bound together by a common vision of corrosion prevention, environment preservation, and education.

Sponsored by:



F **Casino Night Vancouver**
benefitting the NACE Foundation
Pan Pacific Hotel
Oceanview Rooms
7:30 p.m. Cocktail reception
8 p.m. Casino games
10:30 p.m. Drawing for our lucky winners!



Sunday, March 6

F **21st Annual NACE Race**
benefitting the NACE Foundation
8 a.m.
Stanley Park

Join us at CORROSION 2016 and run for a reason! Your support of this event aids the NACE Foundation in its mission to inspire the future workforce to pursue careers in science, technology, engineering, and math (STEM).

Whether you're a serious runner or someone who only jogs from the couch to the fridge, this non-competitive 5K run/walk is for everyone! The \$20 entry fee includes an official race shirt and post-race celebration, including refreshments and medal presentation for our 1st, 2nd, and 3rd place finishers in the men's and women's division. Bus transportation is provided from the convention center.

Reconnect with NACE friends and colleagues, and do your part to support the future of our industry. Register today with your conference registration. Sponsorship opportunities are also available. For more information on registration and sponsorship opportunities, please contact autumn.tran@nace.org or visit nace-foundation.org.



Technical Committees 101 9 to 10 a.m.

Is this your first time at CORROSION? Have you been a member and always wondered how standards come about or how you can play a role in the process? If so, technical committee officers and NACE staff members welcome you to Technical Committees 101. As a participant, this session will benefit you by:

- Providing a basic understanding of how technical committees work
- Learning how you can get involved in technical standards development
- Identifying meetings and papers that you will be most interested in
- Answering any questions you may have about technical committees

Are you feeling lucky? Take a chance, roll the dice, and kick off your week on a winning streak at the NACE Foundation's Casino Night Vancouver! Join us for a cocktail reception including hors d'oeuvres, music, strolling magician, and Las Vegas-style show girls at 7:30 p.m. Bring your poker face for the main event to follow at 8 p.m., including games of roulette, craps, poker, blackjack, and a money wheel.

Individual admission is \$50 and includes \$1,000 in playing chips, which can be cashed in at the end of the night for a chance to win raffle prizes. Tickets can be purchased with your conference registration or by contacting the NACE Foundation. All proceeds from the event will benefit the NACE Foundation in its efforts to inspire the future workforce to pursue careers in science, technology, engineering, and math.

Table sponsorships are also available! Please contact heather.lowry@nace.org or **+1 281-228-6205**, or visit our Web site at nace-foundation.org for more information.

Note: Limited hosted bar. Attire is business casual.

Marquee Sponsor:



Networking Activities

nacecorrosion.org

F NACE Foundation event

S Student event

Monday, March 7

S **NACE U Student Meeting**
Today's Students, Tomorrow's Solutions
9:30 to 11 a.m.

Geared toward students and those with five years or less industry experience, this lively panel discussion will focus on current and future trends in the corrosion industry and how they affect today's young professionals.



Expo Grand Opening
5 to 7 p.m.

The grand opening of the Exhibit Hall is the most popular event each year. CORROSION 2016 attendees will get their first opportunity to meet with more than 320+ exhibiting companies. A complimentary drink ticket redeemable only at the Expo Grand Opening will be included in your registration packet. All attendees must wear their badges for admittance.

Sponsored by:



ONSHORE/OFFSHORE CATHODIC PROTECTION SERVICES

30
BELOW
30 Below—For Students and Young Professionals
Under 30
8 p.m. to 12 a.m.
The Bourbon Country Bar

Students and professionals under the age of 30 are invited to a memorable night of dancing and karaoke at The Bourbon Country Bar. Connect with the brightest new minds in the world of corrosion as you enjoy hours of music and food. We hope to see you there.

Sponsored by:



Tuesday, March 8

Career Advancement Center
8 a.m. to 5 p.m.

Whether you are a student, new to the industry, or a corrosion expert, sharpen your skills and advance your career at NACE's Career Advancement Center. Our goal is to assist you with your career, recruitment, and educational needs. Access resources such as resume writing assistance, learn about continuing education through NACE International, get your professional headshot taken, meet a mentor, and more!

If your company has employment opportunities to showcase at the event, please contact Cindy Tracy at cindy.tracy@nace.org or call +1 281-228-6240.

F **Retro Rewind**
benefitting the NACE Foundation
S **The Commodore Ballroom • Vancouver, BC**
7 to 8 p.m. **Scholarship Awards Ceremony**
8 to 11 p.m. **Ten Souljers Band**

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

Step back in time and join us for Retro Rewind, an exciting evening of recognition, music, dancing, and fun! Whether it's bell bottoms and platform shoes or leg warmers and popped collars, come decked out in the outfit of your choice as we celebrate our favorite memories from decades past and support Generation Next, the future of our industry.

The evening kicks off with our Scholarship Awards Ceremony, sponsored by BP, as we recognize our recipients for 2016. At 8:00 pm, the lights go down and the music turns up! The NACE Foundation proudly welcomes to the CORROSION stage Ten Souljers, one of Vancouver's hottest party bands. Be prepared for an evening of excitement and high energy as they take us on a trip through time, playing hits from the '60s through today!

Individual tickets are \$50 and can be purchased with your conference registration. Contact the NACE Foundation at +1 281-228-6205 or heather.lowry@nace.org to learn more about sponsorship opportunities, or visit the Web site at nace-foundation.org.

Conference shuttles will be available for guests' transportation needs.
Note: Must have ticket for Retro Rewind to attend the Scholarship Awards Ceremony. All student registrants for CORROSION 2016 will receive a complimentary event ticket. Limited hosted bar.



Networking Activities

F NACE Foundation event

S Student event

Scholarship Awards Ceremony Sponsor:



Discover what role you could play

Retro Rewind Signature Sponsor:

NALCO Champion

An Ecolab Company

Titanium Sponsors:



Silver Sponsor:



Wednesday, March 9

F **CORROSION: Opportunities Realized**
Vancouver Convention Centre
9 a.m. to 3 p.m.

At CORROSION 2016, the NACE Foundation is hosting a day-long mini-camp for local high school students to educate and spread corrosion awareness to the next generation.



Students will participate in hands-on corrosion-related activities, utilizing the NACE Foundation's cKit™ (Corrosion Toolkit), and 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 2016 show floor.

Interested in getting involved? For information on volunteering opportunities, please contact autumn.tran@nace.org or **+1 281-228-6478**.

Sponsored by:



**LET YOUR
VOICE
BE HEARD**

TECHNICAL COMMITTEES 101

LEARN THE BASICS

JOIN A TECHNICAL COMMITTEE

BE INVOLVED IN THE STANDARDS PROCESS

Sunday @ 9 a.m. See p. A35 for details.

NACE NUCLEAR POWER PLANT COATINGS SYMPOSIUM

January 12-13, 2016
Orlando, FL

REGISTER TODAY

nppcoatings.nace.org



Section Officer Forum

12 to 2 p.m.

Join the NACE membership team in an exciting forum designed to allow section officers an opportunity to share, collaborate, and engage with their peers. Leaders are encouraged to attend and provide feedback to NACE staff on how NACE can better serve our sections and members. Make sure your section is heard.

Awards Dinner

7 to 11 p.m.

The Awards Dinner recognizes select NACE International members for their outstanding contributions to NACE, corrosion control methods, science, and engineering. Share in the celebration as the 2016-2017 NACE officers are introduced.

The dress is business or cocktail attire. Due to limited seating, it is recommended that you purchase your ticket in advance. Individual tickets and full tables are available.

Thursday, March 10

Engaging Women in Leadership Workshop

8:30 a.m. to 1 p.m.

For nearly a decade, NACE International annual conference attendees have benefited professionally and personally from the Women in Corrosion event. In response to the corrosion industry's growing need for professionals, especially in leadership positions, this annual networking event is being expanded to a half-day workshop.

The CORROSION 2016 Engaging Women in Leadership workshop will include renowned keynote speakers from both inside and outside of the NACE community. The interactive programming will:

- Enrich professional development and networking opportunities
- Inspire attendees to pursue leadership positions in the corrosion industry
- Provide personal and professional development strategies
- Address the value of diverse leadership teams in organizations
- Present tactics for coaching and mentoring others on their path to leadership

If you're seeking tools that will impact your success in the workplace or if you are responsible for helping others achieve success, Engaging Women in Leadership should be on your CORROSION 2016 conference schedule.

RETRO REWIND

SUPPORTING GENERATION NEXT

TUESDAY, MARCH 8, 2016
THE COMMODORE BALLROOM • VANCOUVER, BC

Come for the awards...Stay for the party!

Join us as we celebrate the future of our industry and recognize our scholarship recipients for 2016.

7 to 8 p.m. Scholarship Awards Ceremony*
8 to 11 p.m. Ten Souljers Band

Dress for your favorite decade and take a trip through time as Ten Souljers ignites the CORROSION 2016 stage with hits from the '60s through today.

Purchase your tickets when you register for CORROSION 2016!
For more information, please visit nace-foundation.org.

**Must have ticket for Retro Rewind to attend Scholarship Awards Ceremony.
All student registrants for CORROSION 2016 will receive a complimentary event ticket.*



#SupportGenerationNext

RETRO REWIND SIGNATURE SPONSOR:

TITANIUM SPONSORS:

SILVER SPONSOR:

SCHOLARSHIP AWARDS CEREMONY SPONSOR:

NALCO Champion

An Ecolab Company



Discover what role you could play



CAREER ADVANCEMENT CENTER

TUESDAY, MARCH 8 • 8 A.M. – 5 P.M.

The Career Advancement Center is geared toward any level of corrosion professional, from students to industry experts. Find resources to sharpen your skills and advance your career. NACE is offering complimentary headshots as part of the Career Advancement Center as well as “Meet a Mentor”—an event designed to connect early-career professionals (mentees) with professionals who have 10 or more years of experience in their fields (mentors). Potential employers will be on site to visit with you. Career advancement opportunities include individual career coaching with an on-site professional coach, resumé review, personal branding, job search skills, and other coaching needs. If your company would be interested in participating, contact **Cindy Tracy** for availability and pricing.

For more information, contact **Cindy Tracy** at cindy.tracy@nace.org or call +1 281-228-6240.

To see current career opportunities, visit nace.org/careers.



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\$1,000-\$4,999 Sponsors



*as of August 27, 2015

The Exhibition

nacecorrosion.org

Expo Schedule

Monday, March 7	5 to 7 p.m.
Tuesday, March 8	10 a.m. to 5 p.m.
Wednesday, March 9	10 a.m. to 5 p.m.
Thursday, March 10	9 a.m. to noon

Expo Events

Monday, March 7

Cathodic Protection (CP) Field	5 to 7 p.m.
Expo Grand Opening	5 to 7 p.m.
Student Poster Session	5 to 7 p.m.

Tuesday, March 8

CP Field	10 a.m. to 5 p.m.
Corrosive Chronicles	11 a.m. to 4 p.m.
Complimentary Lunch (while supplies last, full conference registration only)	11:45 a.m.
Student Poster Session	noon to 1 p.m.

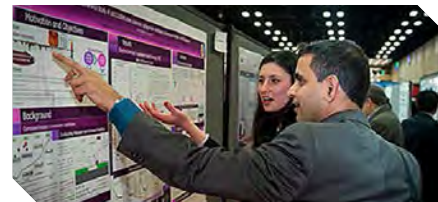
Wednesday, March 9

CP Field	10 a.m. to 5 p.m.
Corrosive Chronicles	11 a.m. to 4 p.m.
Student Poster Session Winners Announced	12:30 p.m.

Thursday, March 10

CP Field	9 a.m. to noon
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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 7.



Student Poster Display

To encourage student involvement in the field of corrosion technology, the NACE Research Committee sponsors a Student Poster Session at CORROSION 2016. 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.

Corrosive Chronicles

As a unique and new addition to CORROSION 2016, the Corrosive Chronicles Theater will be featuring experienced corrosion professionals presenting their stories of failures and most interesting incidents from the field. On Tuesday, March 8 and Wednesday, March 9 from 11 a.m. to 4 p.m., the theater will be available to all conference attendees to listen to presentations. Conference attendees will learn unique lessons to corrosion problems that are relatable to their own field of expertise. If you are interested in telling your tale, please contact David Briley at david.briley@nace.org for additional info.

Why exhibit at CORROSION 2016?

The NACE Annual Conference and Exposition is the largest conference in the world dedicated to the field of corrosion control and prevention. Our attendees rely on information presented at this conference to make their buying decisions.

- Regular segments of unopposed exhibit time
- Networking opportunities with 5,000+ CORROSION 2016 attendees
- Listing in *Materials Performance* magazine's February 2016 conference issue and conference Final Program
- Complimentary Exhibit Hall passes for your customers with your company name and booth number listed on each pass
- Exhibitor name and booth number on the conference Web site
- Contact information of conference attendees for post-conference marketing
- Marketing tools for CORROSION exhibitors

More information is available at nacecorrosion.org.

The CORROSION 2016 Expo features leading companies in corrosion control. With more than 320 exhibiting companies showcasing products and services from around the world, there are corrosion prevention solutions available for all industries. Visit nacecorrosion.org to view the current list of exhibitors.

2016 Expo Hall

Cathodic Protection Field

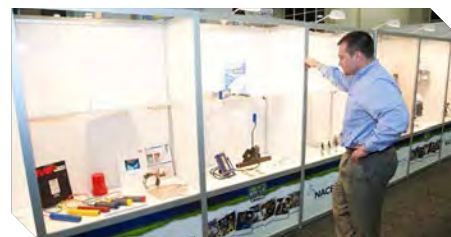
Open during exhibit hours

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

Product Showcase

The Product Showcase is a dedicated area to increase awareness and interest in CORROSION 2016 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 Jackie Hune by phone at +1 281-228-6227 or e-mail at jackie.hune@nace.org.



NACE CORROSION RISK MANAGEMENT CONFERENCE

MAY 23-25, 2016 • HOUSTON, TEXAS
HOUSTON MARRIOTT WESTCHASE

MANAGE RISKS. REDUCE FAILURES.

Risk management has become an important requirement in many industries and is an indispensable tool for today's corrosion and materials engineers. Managing risks presents several challenges given the complexity of the material degradation processes. The NACE Corrosion Risk Management Conference brings together experts from oil & gas, pipeline, chemical process, power generation, and infrastructure industries, to share knowledge and best practices in corrosion risk management.

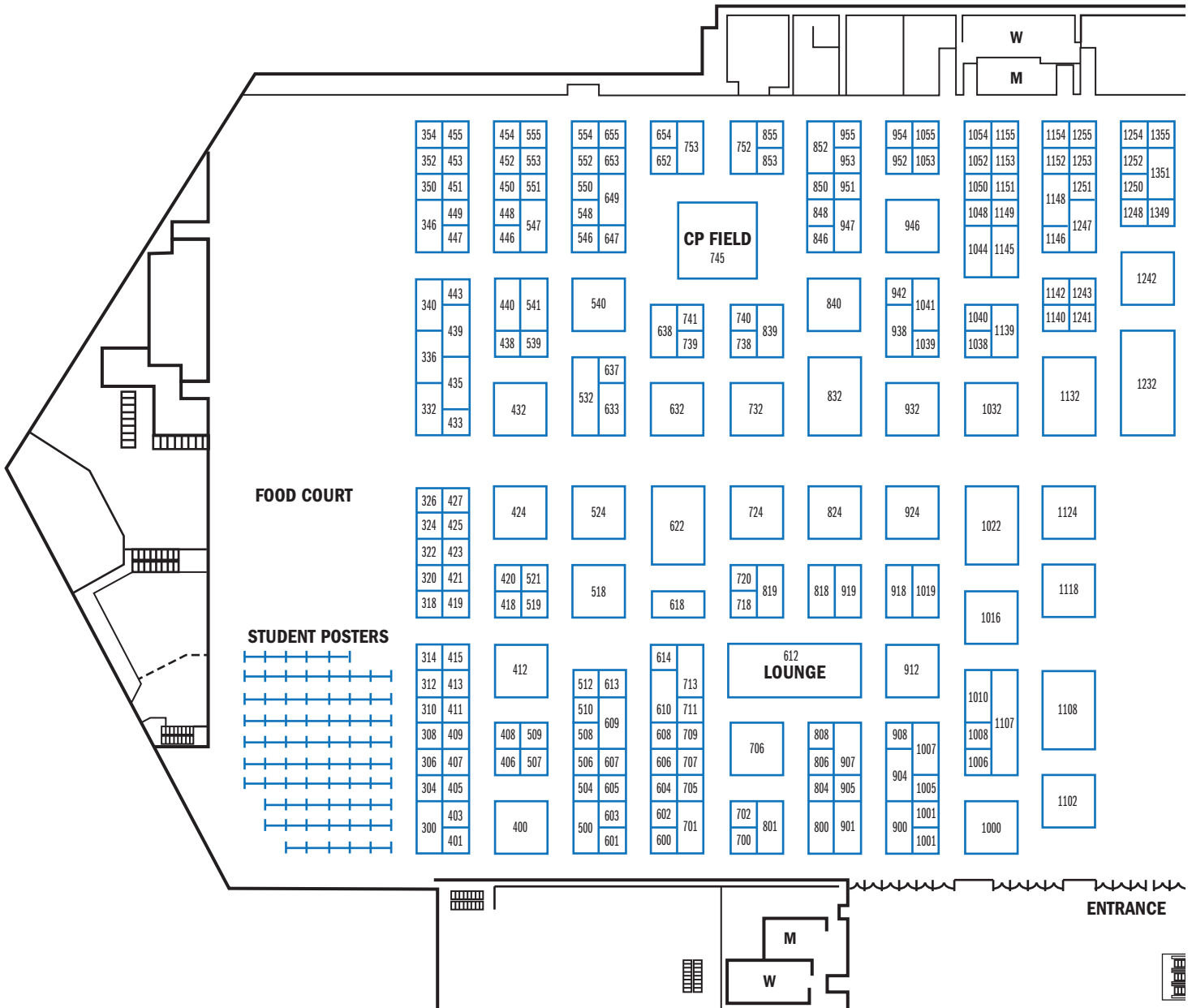
Go to corrosionrisk.nace.org for more information



REGISTER
TODAY

CORROSION 2016 Floorplan

nacecorrosion.org





● **3M**

6801 River Pl. Blvd.
Austin, TX 78726
USA
Tel: 1 800-722-6721
E-mail: mklatham@mmm.com
Web site: 3m.com/corrosion
Booth Number: 1504

● **AA Thread**

1275 Kyle Ct.
Wauconda, IL 60084
USA
Tel: +1 847-526-2120
Web site: aathread.com
Booth Number: 2322

● **Abriox, Inc.**

15092 St., Rte. 68
Mount Orab, OH 45154
USA
Tel: +1 513-474-0565
Web site: abriox.com
Booth Number: 638

● **ACA—Australasian Corrosion Association**

458 Middleborough Rd., Ste. 1
Blackburn, VIC, 3129
Australia
Tel: +61 3 9890 4833
Web site: corrosion.com.au
Booth Number: 2014

● **Access Plug Flange, Inc. (APF)**

15603 W. Hardy Rd., Ste. 355
Houston, TX 77060
USA
Tel: +1 713-691-0897
Web site: inspectionplug.com
Booth Number: 709

● **Accurate Corrosion Control, Inc.**

7310 N. 108th Ave.
Peoria, AZ 85307
USA
Tel: +1 623-486-7800
Web site: accuratecorrosion.com
Booth Number: 1618

● **Acumentrics**

20 Southwest Park
Westwood, MA 02090
USA
Tel: +1 781-461-8251
Web site: acumentrics.com
Booth Number: 2237

● **Acuren Inspection**

101 Old Underwood Rd., Bldg. J
La Porte, TX 77571
USA
Tel: 1 888-638-2280
Web site: acuren.com
Booth Number: 633

● **Advance Products & Systems, Inc.**

PO Box 60399
Lafayette, LA 70596
USA
Tel: 1 800-315-6009
Web site: apsonline.com
Booth Number: 801

● **Advanced Polymer Coatings**

PO Box 269, 951 Jaycox Rd.
Avon, OH 44011
USA
Tel: 1 800-334-7193
Web site: adv-polymer.com
Booth Number: 1718

● **A-Hak Industrial Services**

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Houston, TX 77034
USA
Tel: +1 281-484-2000
Web site: a-hak-is.com
Booth Number: 853

● **Alabama Laser**

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Munford, AL 36268
USA
Tel: +1 256-358-9055
Web site: alabamalaser.com
Booth Number: 1322

● **Allan Edwards**

PO Box 9457
Tulsa, OK 74157
USA
Tel: +1 918-583-7184
Web site: allanedwards.com
Booth Number: 1406

● **Allied Corrosion Industries, Inc.**

1550 Cobb Industrial Dr. N.E.
Marietta, GA 30066
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Tel: +1 770-425-1355
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Bellville, TX 77418
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Web site: alsglobal.com
Booth Number: 649

● **Amerapex Corp.**

2950 N. Loop W., Ste. 1100
Houston, TX 77015
USA
Tel: +1 713-263-0900
Web site: amerapex.com
Booth Number: 1148

● **American Carbon Co.**

W246S3244 Industrial Ln., Ste. A
Waukesha, WI 53189
USA
Tel: +1 262-617-2765
Web site: amcarbon.com
Booth Number: 1149

● **American Innovations**

12211 Technology Blvd.
Austin, TX 78727
USA
Tel: +1 512-249-3400
Web site: aiworldwide.com
Booth Number: 901

● **American Society for Nondestructive Testing, Inc./The**

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Canada
Tel: +1 403-208-7889
Web site: ammonite-corrosion.com

Booth Number: 1814



Anotec Industries, Ltd.

5701 Production Way
Langley, BC V3A 4N5
Canada
Tel: +1 604-514-1544
Web site: anotec.com

Booth Number: 1019

Arkema, Inc.

900 First Ave.
King of Prussia, PA 19406
USA
Tel: 1 800-596-2750
Web site: kynar.com

Booth Number: 2321

ARK Engineering

639 Granite St., Ste. 200
Braintree, MA 02184
USA
Tel: +1 781-849-3800
Web site: arkengineering.com

Booth Number: 808

Armor Plate

PO Box 5625
Pasadena, TX 77508-5625
USA
Tel: +1 281-487-2023
Web site: armorplatelnc.com

Booth Number: 1454

Asbury Carbons

405 Old Main St., PO Box 144
Asbury, NJ 08802
USA
Tel: +1 908-537-2155
Web site: asbury.com

Booth Number: 1502

Ashland, Inc.

5200 Blazer Pkwy.
PO Box 2219
Dublin, OH 43017
USA
Tel: +1 614-790-4102
Web site: ashland.com

Booth Number: 524

Aspen Aerogels

30 Forbes Rd.
Northborough, MA 01532
USA
Tel: +1 508-691-1111
Web site: aerogel.com

Booth Number: 1145

Astrodyne TDI

36 Newburgh Rd.
Hackettstown, NJ 07840
USA
Tel: +1 908-850-5088
Web site: astrodyneTDI.com

Booth Number: 1832

AT&F Advanced Metals, LLC

95 N. Swinehart Rd.
Orrville, OH 44667
USA
Tel: +1 330-684-1122
Web site: atfco.com

Booth Number: 1546

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Groveland, MA 01834
USA
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Web site: arc-epc.com

Booth Number: 1250



Axalta Coating Systems

9800 Genard Rd.
Houston, TX 77041
USA
Tel: +1 832-955-0200
Web site: axalta.us/powder

Booth Number: 1805

AZZ WSI

2225 Skyland Ct.
Norcross, GA 30071
USA
Tel: +1 678-728-9100
Web site: azz.com/wsi

Booth Number: 1507

● **NEW BAC Corrosion Control, Ltd.**

Units C10/C11, Stafford Pk. N.
Telford, Shropshire, TF33AY
UK
Tel: +44 1952 290321
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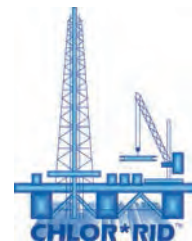
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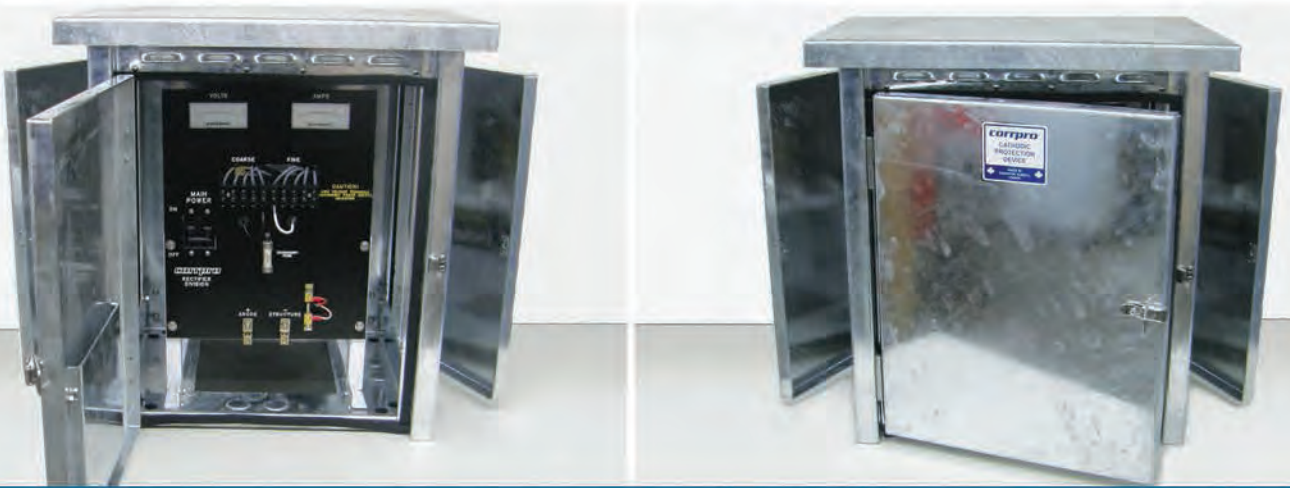
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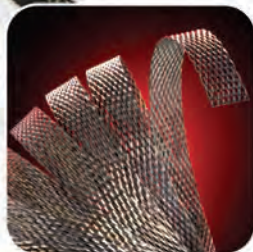
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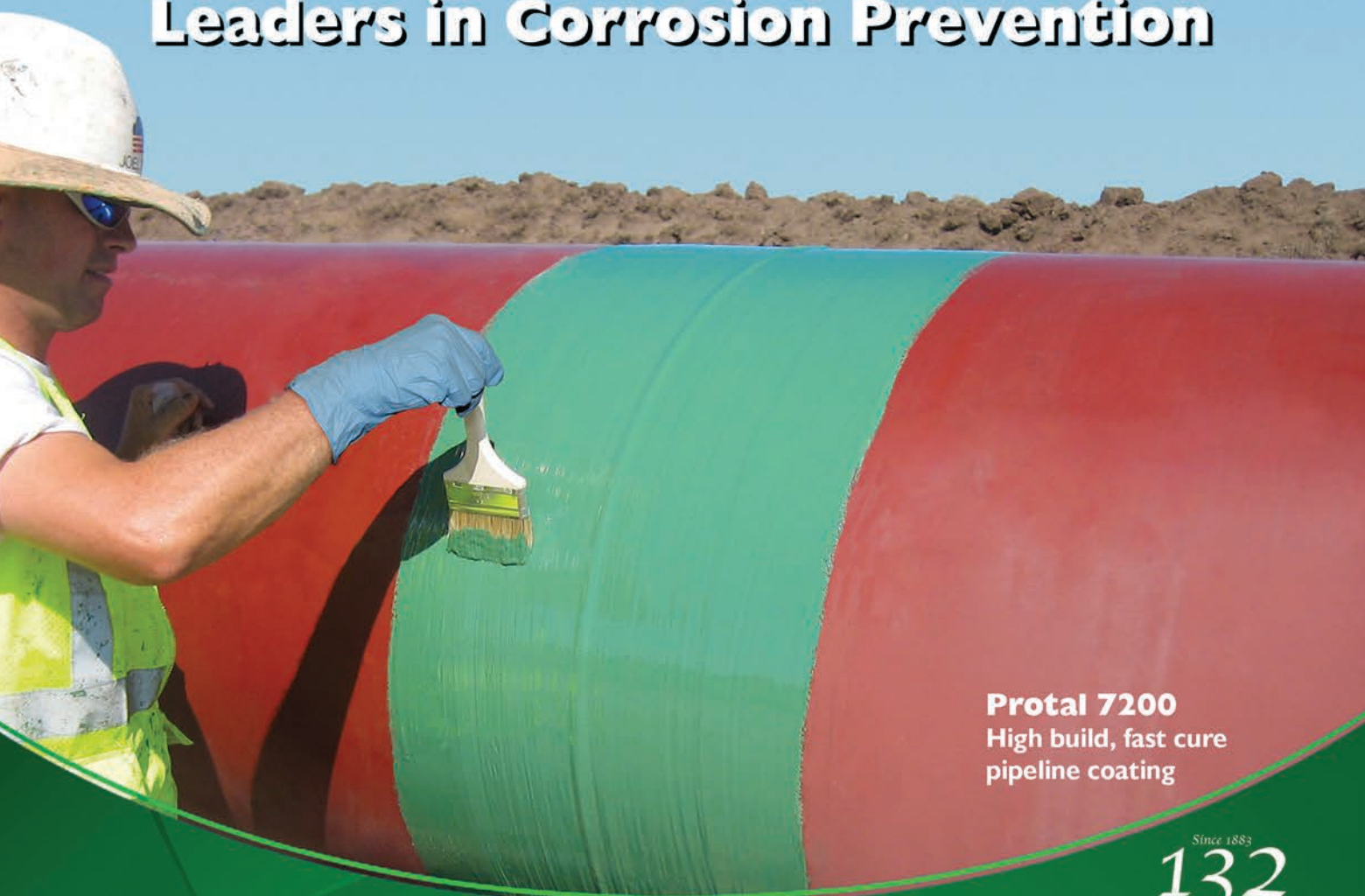
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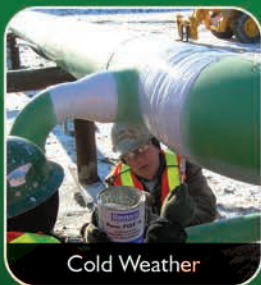
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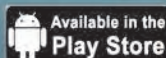
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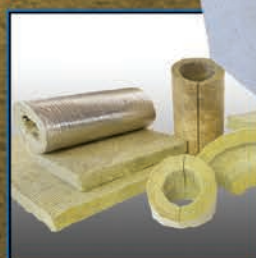
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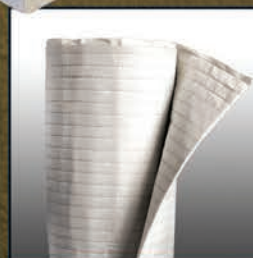
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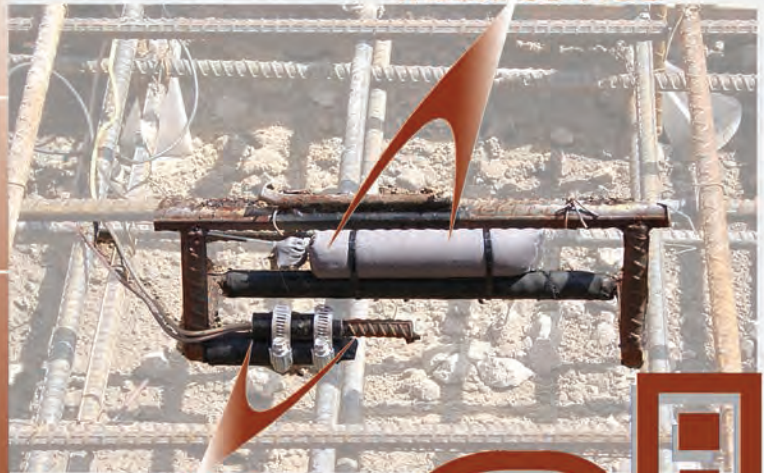
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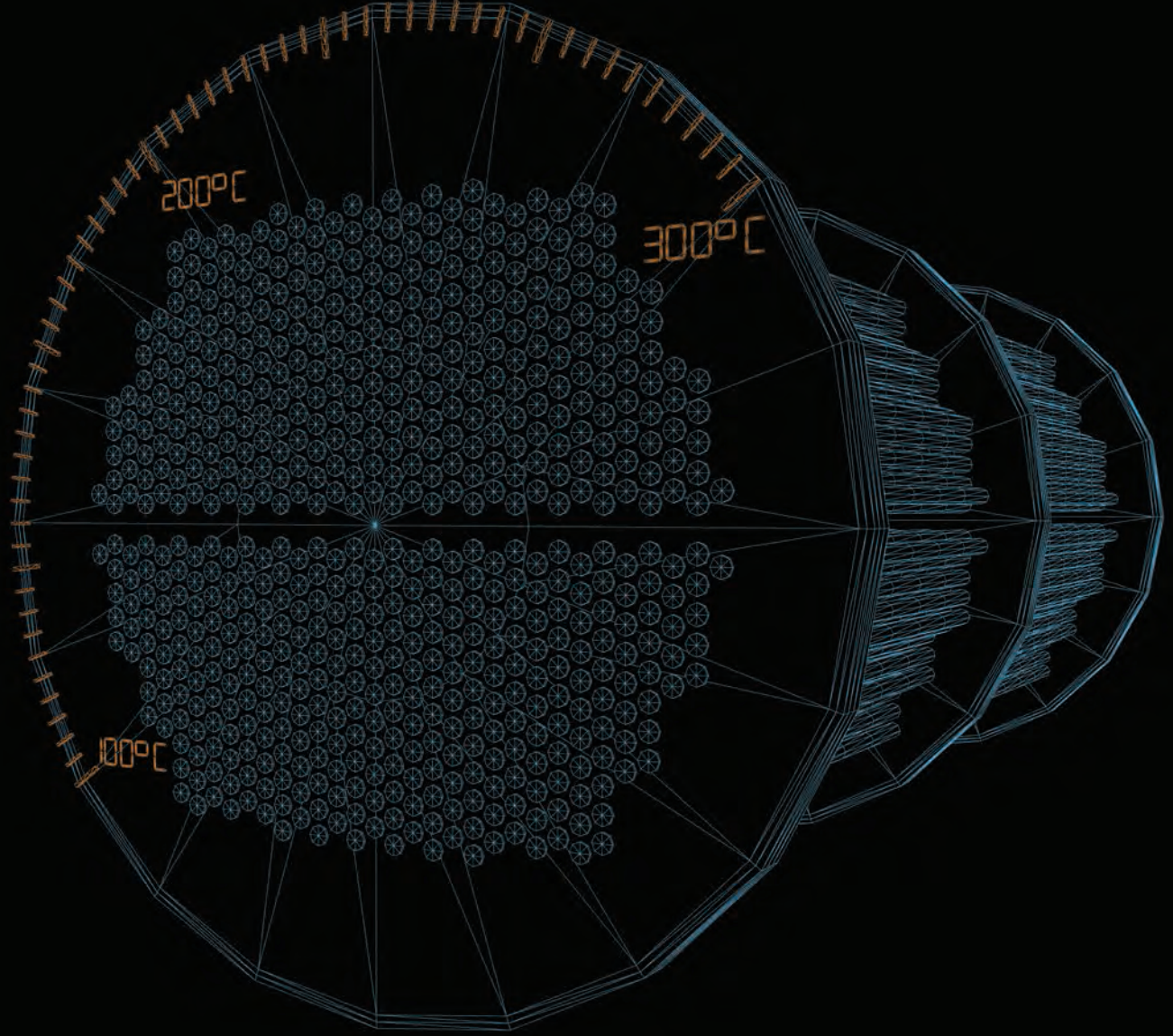


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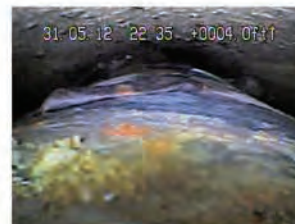


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USA
Tel: 1 800-627-2698
Web site: wassercoatings.com
Booth Number: 540

Water Star, Inc.

12369 Kinsman Rd., Ste. K
Newbury, OH 44065
USA
Tel: +1 440-996-0800
Web site: waterstarinc.com
Booth Number: 1704

NEW Wesmat Supplies

12160 - 160 St.
Edmonton, AB T5V 1H5
Canada
Tel: +1 780-455-0025
Web site: wesmat.com
Booth Number: 1553

Western Falcon

5810 Wilson Rd., #250
Humble, TX 77396
USA
Tel: +1 832-391-9461
Web site: westernfalcon.com
Booth Number: 2015

● **Wood Group Mustang, Inc.**

17325 Park Row
Houston, TX 77084
USA
Tel: +1 832-809-8000
Web site: mustangeng.com
Booth Number: 1604

WrapMaster, Inc.

2701 State Hwy. 322
Longview, TX 75603
USA
Tel: +1 903-643-8080
Web site: wrapmaster.us
Booth Number: 418

Xi'an Taijin Industrial Electrochemical Technology, Co., Ltd.

Xijin Rd. W., No.15 of Jingwei Industrial Zone
Xi'an Shaanxi, 710016, P.R. China
Tel: +86 29 86968453
Web site: tai-jin.net
Booth Number: 2141

Xing Chan Tai Anodes Technology (Beijing) Co., Ltd. (XCTAT)

A-1503 ShengShi Garden, No. 98 Jianguo Rd.
Chaoyang District
Beijing, 100022, China
Tel: +86 10 85806993
Web site: xctat.com
Booth Number: 1443

ZCL Composites, Inc.

803, 350 Seventh Ave., S.W.
Calgary, AB T2P 3N9, Canada
Tel: 1 800-661-8265
Web site: zcl.com
Booth Number: 423

Zerust Oil & Gas

23900 Mercantile Rd.
Beachwood, OH 44122
USA
Tel: +1 763-225-6600
Web site: zerust-oilgas.com
Booth Number: 1706

Zetec, Inc.

822 Bracken Pl. S.E., Ste. 100
Snoqualmie, WA 98065
USA
Tel: +1 425-974-2701
Web site: zetec.com
Booth Number: 439



**The next round of MP's Corrosion
Innovation Awards will be presented
in 2017. See MP's June 2016 issue for
nomination information.**

Guest Program

The Guest Program is a social program designed for the enjoyment of the guests of conference registrants. Guest Program registration does not include access to any technical symposia or committee meetings. Guest Program activities for the registrants include:

Guest Reception

On Sunday, March 6, guests will enjoy an afternoon to unwind and relax with other Guest Program attendees. The reception will last from 2 to 5 p.m. at the Pan Pacific Vancouver Hotel. Food and drinks will be provided.

Opening Reception

Kick off CORROSION 2016 at the Vancouver Convention Centre on Sunday evening with conference attendees and exhibitors. Drinks and hors d'oeuvres will be provided.

CORROSION 2016 Expo Grand Opening

Join the attendees of CORROSION 2016 for an evening admission to the Expo Grand Opening at the Vancouver Convention Centre, which includes access to more than 320 exhibiting companies across 85,000 square feet of exhibit space.

Continental Breakfast

Enjoy an expanded continental breakfast at the Pan Pacific Vancouver Hotel from Monday through Wednesday, serving from 8 to 9:30 a.m.

Other activities are provided by local tour companies and the tour prices are listed below.

Monday, March 7

Private Vancouver Tour

9:30 a.m. to 1:30 p.m.

- 9:30 a.m. Pickup from a downtown Vancouver hotel
Tour through Gastown, Chinatown, Vancouver Harbour & the Olympic Cauldron, Stanley Park (with scenic stops at the Totem Poles and Prospect Point), and English Bay.
- 11:30 a.m. Visit the Vancouver Art Gallery
- 1 p.m. Depart the Vancouver Art Gallery
- 1:30 p.m. Drop off at a downtown Vancouver hotel

Stanley Park—This is the emerald jewel set in the heart of our city. Stanley Park is a 1,000 acre playground with stunning city views, snow-capped mountain backdrops, and the salty smell of the Pacific Ocean. Enjoy a stop at the totem poles and get an iconic photo of the sails of Canada Place and the glass and steel towers of Coal Harbour. Then drive on to the park's highest point. Stop at Prospect Point and enjoy a view of Lion's Gate Bridge spanning the entrance to our harbour. Be dazzled at the panorama of the snowcapped coastal mountains, West Vancouver, and English Bay.

English Bay—Drive out of the park and along the city's urban beaches of English Bay. Get a real sense of how fortunate the locals are with access to seaside walks, astounding views, and ocean beaches. Lucky guests may even spot a couple of our resident bald eagles or great blue herons hunting by these shores.

Gastown—This is where it all started, on the shores of the Burrard Inlet where Gassy Jack Deighton laid the foundation of this great west coast city. See Maple Tree Square, Vancouver's oldest architecture, and the world-famous steam-powered clock.

Chinatown—This community was developed at the turn of the last century by Chinese immigrants from California and China, who came to work the gold mines and railroad. Chinatown today is a bustling reminder of where we've come from and where we are heading. It has great restaurants, shopping, and interesting architecture (like the world's thinnest building), all for your senses to feast upon.

Vancouver Art Gallery—Housing a permanent collection of more than 10,000 artworks, the Vancouver Art Gallery continues to build on the collection's historical and contemporary strengths through the acquisition of work by local and international artists. One of the collection's principal strengths is the abundance of works by artists of this region, a strength that reflects the gallery's commitment to preserve and present works by British Columbia's finest artists.

\$75 CAD, including tax and gratuity per person

Tuesday, March 8

Private Vancouver Tour

9:30 a.m. to 4 p.m.

- 9:30 a.m. Pickup from a downtown Vancouver hotel
Tour through Kitsilano, along Kits Beach, continuing on Northwest Marine Drive to the University of British Columbia Campus (with a scenic stop at Spanish Banks)
- 10:15 a.m. Visit the Museum of Anthropology
- 11:45 a.m. Depart the Museum of Anthropology
Drive back into Vancouver and tour over the Lions Gate Bridge to the North Shore
- 12:30 p.m. Visit Grouse Mountain
- 2 p.m. Depart Grouse Mountain
- 2:30 p.m. Visit Horseshoe Bay Village
- 3:15 p.m. Depart Horseshoe Bay
Drive over the Lions Gate Bridge to Vancouver
- 4 p.m. Drop off at a downtown Vancouver hotel

Kitsilano—Named for Khatsahlanough, a Squamish Nation chief, Kitsilano was known for being a hippie and counterculture haven in the 1960s and '70s and the home of both Greenpeace, founded in 1975, and the BC Green Party, founded in 1983. Today "Kits" is a combination of the eco- and hippie-spirit of its past and 21st century gentrification, emblemized in the neighborhood's organic markets, multicultural restaurants, and shops.

Museum of Anthropology—The museum, located on the University of British Columbia campus, houses one of the world's finest displays of Northwest Coast First Nations art in a spectacular Arthur Erickson-designed building overlooking the mountains and ocean. It also features extensive collections from around the world as well as a wide range of temporary exhibitions.

Guest Program

nacecorrosion.org

Grouse Mountain—Take the tram to a 1,200-meter (3,700-foot) viewpoint above the city and enjoy what the seasons have to offer. You are on top of a mountain and on a clear day you can see Mount Baker, a volcano in the United States, and Vancouver Island 50 km (30 miles) off the coast. In wintertime guests can enjoy the hibernating bears by seeing a great movie at the Theater in the Sky, and take part in sleigh rides and ice skating.

Horseshoe Bay Village—This quaint seaside village is home to about 1,000 permanent residents but is a very popular weekend spot for Vancouverites. Horseshoe Bay features a wide variety of local businesses for you to explore and enjoy, and is also the location of the BC Ferry Terminal that provides service to Nanaimo on Vancouver Island.

\$140 CAD, including tax and gratuity per person

Wednesday, March 9

Private Vancouver Tour

9:30 a.m. to 1:30 p.m.

- 9:30 a.m. Pickup from a downtown Vancouver hotel
- 9:45 a.m. Visit Granville Island
- 10 a.m. Depart on a Granville Island Market Tour with Vancouver Foodie Tours
- Noon Depart Granville Island
Tour through Queen Elizabeth Park with a visit to Bloedel Conservatory and the Sunken Gardens
- 1:30 p.m. Drop off at a downtown Vancouver hotel

Granville Island Market Tour with Vancouver Foodie Tours—Noisy and chaotic, yet irresistibly atmospheric, Granville Island is Canada's second most-visited tourist attraction, behind Niagara Falls, and Vancouver's destination for lovers of food, art, and culture. Offering fresh, local, seasonal produce, alongside a slice of local life, this is where guests rub elbows with Vancouver's chefs as they shop for tonight's menu. During the Granville Island tour, guests will savor a cornucopia of fine foods from independent farmers and food artisans throughout Vancouver and beyond, from duck confit and cheeses to locally made charcuterie, melt-in-your-mouth donuts, to world-class coffee and chai. Touring the Granville Island Public Market will be one of the most authentic ways to experience Vancouver.

Queen Elizabeth Park—Vancouver's horticultural jewel, this park is a major draw for floral display enthusiasts and view-seekers, and is a popular backdrop for wedding photos. At 152 m above sea level, it's the highest point in Vancouver and makes for spectacular views of the park, city, and mountains on the North Shore. Enclosed in a triodetic dome, Bloedel Conservatory is a lush year-round tropical garden with dazzling exotic plants and eye-catching birds.

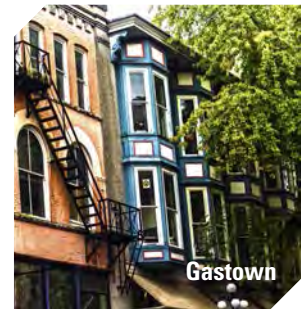
\$125 CAD, including tax and gratuity per person



Stanley Park



Queen Elizabeth Park



Gastown



English Bay



View from Grouse Mountain



Horseshoe Bay

Thank You to Our Diamond Corporate Members

*as of September 1, 2015



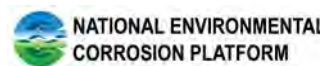
Colonial Pipeline Company



DoD Corrosion Prevention and Control Integrated Product Team



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中国石油



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أرامكو السعودية
Saudi Aramco



A Sempra Energy utility

20th Annual NACE RaceA35
30 Below—For Young Students and Professionals Under 30A36

A

Anodes, Anodic Protection

Symposia, Technical
 Anodic and Cathodic Protection.....A19

Atmospheric Corrosion. See also Corrosion, Atmospheric

Award Lectures

Lectures
 Frank Newman Speller Award Lecture.....A33
 Willis Rodney Whitney Award Lecture.....A33

B

Biomedical Materials/Devices

Meetings, Technical Committees
 Biomedical Implant Device CorrosionA27
 Symposia, Technical
 Corrosion of Biomedical Materials and DevicesA18

C

Cathodic Protection

Exhibition
 Cathodic Protection FieldA43
 Meetings, Technical Committees
 Cathodic Protection.....A23
 Cathodic Protection in Seawater—Discussion of Current Topics.....A24
 Cathodic Protection: Pipe-Type Cable.....A23
 Cathodic Protection Systems, Retrofit, for Offshore Platforms.....A24
 DC Traction Stray Current ProblemsA23
 Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35
 Pipelines, Tanks, and Well CasingsA23
 National Adoption of ISO 15589-2:2012.....A24
 Offshore Steel Platforms—Corrosion Control:
 Review of NACE SP0176.....A24
 Review of NACE SP0388-2014 and SP0196-2011.....A23
 Steel, Structural: Corrosion Control of Piling in
 Nonmarine ApplicationsA23
 Symposia, Technical
 Anodic and Cathodic Protection.....A19
 Electrochemical Corrosion Control of Steel in ConcreteA18
 Practical Field Application of Cathodic Protection in Oil and Gas
 ProductionA17

Cleaning: Chemical and Mechanical Cleaning

Meetings, Technical Committees
 Cleaning: Chemical and Mechanical Cleaning.....A24

Coatings

Forums
 How to Avoid Premature Coatings Failures.....A15
 NIIICAP—The New NACE International Institute Contractor
 Accreditation ProgramA16
 Thermal Spray Coatings Forum.....A15
 Meetings, Technical Committees
 Coating ConductanceA23
 Coating Thickness Measurement, Methods, and Recording—
 Specific to the Railcar Industry.....A27
 Determining True Insulative Value of Liquid Insulative
 Materials Applied on Steel Surfaces.....A23
 Elastomers and other Nonmetallics for Oilfield Sealing ServiceA25
 Guidelines for Data Collection and Analysis of Railroad Tank
 Car Interior Coating/Lining Condition.....A27

Guidelines for Qualifying Personnel as Abrasive Blasters and
 Coating and Lining Applicators in the Rail IndustryA27
 Hot-Dip Galvanizing for Steel Corrosion ProtectionA23
 Identification of Existing Buried Pipe Coatings in Nuclear
 Power PlantsA26
 Land Transportation: Information Exchange on Corrosion
 and Coating-Related IssuesA27
 Maintenance Overcoating of Railcar Exteriors.....A27
 Nuclear Power Plant Buried Pipe Coatings Condition AssessmentA26
 Railcars: Coating Application on Exterior Surfaces of Steel Railcars..A27
 Review and Revise or Reaffirm as Necessary NACE SP0181-2006.....A25
 STG 02, 03, and 04 Joint Meeting.....A23
 Surface Preparation by Encapsulated Blast Media for Repair
 of Existing Coatings on RailcarsA27
 Test Methods of Determining True Insulation Value of Liquid Insulative
 Materials Applied on Steel Surfaces from 80 °F to 375 °F.....A23

Symposia, Research

Research in Progress
 Coatings and Inhibitors.....A21

Symposia, Technical

Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic).....A17
 Oil/Gas Coating Technology Symposium (Day 1).....A19
 Oil/Gas Coating Technology Symposium (Day 2).....A20

Concrete

Meetings, Technical Committees

Inspection Methods for Corrosion Evaluation of Prestressed
 Concrete StructuresA23
 Reinforced Concrete: Design Considerations for Corrosion ControlA23
 Reinforced Concrete: Design, Evaluation, and Remediation.....A23
 Reinforced Concrete: Electrochemical Chloride Removal and
 Realkalization.....A23
 Reinforced Concrete: Evaluation of Concrete StructuresA23
 Reinforced Concrete: Proposed Revision to NACE SP0290-2007A23
 Reinforced Concrete: Sacrificial Cathodic Protection of
 Reinforced Concrete Elements.....A23
 Reinforced Concrete: Stray-Current-Induced CorrosionA23
 Review and Revise TM0294A23
 Reinforced Concrete.....A23
 Testing and Evaluation of Corrosion on Steel-Framed BuildingsA23

Corrosion/Erosion

Symposia, Technical

Fluid-Induced Degradation—Corrosion/Erosion and Their InteractionsA17
 Underdeposit CorrosionA18

Corrosion, Localized

Symposia, Research

Research in Progress
 In Situ Methods for Corrosion Analysis.....A21
 Passivity and Localized Corrosion.....A21

Corrosion Management

Meetings, Technical Committees

Economics of Corrosion Management.....A24

Symposia, Technical

Control and Management of Corrosion and Scaling from
 Inland to Subsea Fields.....A19
 Corrosion ManagementA17

Corrosion, Marine

Meetings, Technical Committees

Marine Corrosion of Copper Alloys.....A27
 Marine Corrosion; Ships and Structures TIE.....A27

Symposia, Technical	
Control and Management of Corrosion and Scaling from Inland to Subsea Fields	A19
Marine Corrosion	A18
Corrosion Mechanisms	
Meetings, Technical Committees	
Atmospheric Corrosion.....	A27
Biodegradable Magnesium Alloys.....	A27
Biomedical Implant Device Corrosion.....	A27
Corrosion Mechanisms	A27
Microbiologically Influenced Corrosion	A27
Nanotechnology and Corrosion.....	A27
Symposia, Technical	
Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 1).....	A19
Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 2).....	A20
Corrosion Modeling	
Symposia, Technical	
Modeling of Corrosion Prediction from System Conditions	A19
Corrosion Monitoring	
Meetings, Technical Committees	
Acoustic Emission Testing and Measurement.....	A28
Corrosion Monitoring and Measurement	A28
Electrochemical Measurements	A28
Hydrogen Permeation Technology—Online	A28
Revise NACE Publication 3T199	A28
Sensors: Corrosion and Corrosiveness Sensor Technology.....	A28
Testing of Nonshielding Property of Pipeline Coatings to Cathodic Protection.....	A28
Symposia, Technical	
Corrosion Monitoring Technologies for Industrial Applications.....	A18
Novel Use of Multielectrode Systems for Corrosion Monitoring and Studies	A18
Corrosion-Resistant Alloys	
Symposia, Technical	
Recent Experiences with Nickel, Titanium, Zirconium, and Other Corrosion-Resistant Alloys	A19
Corrosion Science & Engineering	
Symposia, Research	
Research in Progress	
In Situ Methods for Corrosion Analysis.....	A21
Integrated Computational Materials Engineering (ICME) and Corrosion	A21
D	
Diamond Corporate Members	A91
Direct Assessment	
Symposia, Technical	
Direct Assessment.....	A19
E	
Environmentally Assisted Cracking	
Symposia, Technical	
Environmentally Assisted Cracking (Day 1)	A19
Environmentally Assisted Cracking (Day 2)	A20
Exhibition	
2016 Exhibitors	
3M A.....	A46
AA Thread	A46
Abriox, Inc.	A46
ACA—Australasian Corrosion Association.....	A46
Access Plug Flange, Inc. (APF)	A46
Accurate Corrosion Control, Inc.	A46
Acumentrics	A46
Acuren Inspection	A46
Advanced Polymer Coatings	A46
Advance Products & Systems, Inc.	A46
A-Hak Industrial Services.....	A46
Alabama Laser	A46
Allan Edwards	A46
Allied Corrosion Industries, Inc.	A46
Alpha Pipeline Integrity Services.....	A46
ALS Oil and Gas	A46
Amerapex Corp.....	A46
American Carbon Co.	A46
American Innovations	A46
American Society for Nondestructive Testing, Inc./The	A46
Ammonite Corrosion Engineering.....	A48
Anotec Industries, Ltd.	A48
Arkema, Inc.	A48
ARK Engineering	A48
Armor Plate	A48
Asbury Carbons	A48
Ashland, Inc.....	A48
Aspen Aerogels.....	A48
Astrodyne TDI.....	A48
AT&F Advanced Metals, LLC.....	A48
AW Chesterton Co., ARC Efficiency & Protective Coatings.....	A48
Axalta Coating Systems.....	A48
AZZ WSI	A48
BAC Corrosion Control, Ltd.	A48
Baker Hughes, Inc.	A48
Barton International	A48
BASF Corp.	A48
Bayou Companies, LLC/The	A48
BEASY	A48
Beijing BSS Corrosion Protection Industry Co., Ltd.	A50
BGH Edeltahlwerke GmbH	A50
BGL Asset Services, LLC	A50
Bingham and Taylor Corp.	A50
Binks/DeVilbiss	A50
Bio-Logic USA, LLC.....	A50
Biosan Laboratories, Inc.....	A50
Biotechnology Solutions USA	A50
Blair Rubber/MRC.....	A50
BÖHLER Bleche GmbH & Co. KG	A50
BÖHLER Edelstahl GmbH & Co. KG	A50
Borin Manufacturing, Inc.	A50
Brance-Kracy Co.....	A50
Brown Corrosion Services, Inc.....	A50
Bruker	A50
Bruker Corp.....	A50
Butting Canada, Ltd.....	A50
Canusa—CPS/ShawCor, Ltd.....	A50
Caproco (1987), Ltd.	A50
Carboline Company	A51
Carpenter Technology Corp.	A51
Catholic Protection Co., Ltd.....	A51
Catholic Technology, Ltd.	A51
CCI Pipeline Systems	A51
CCSI, LLC	A51

CECO Pipeline Services Co.....	A51	Exova, Inc.....	A60
Ceramic Polymer GmbH/Chesterton International B.V.....	A51	Farwest Corrosion Control Co.....	A62
CerAnode Technologies—Div. of APS Materials, Inc.....	A52	Fibreglass Solutions, Inc.....	A62
Certified Coating Specialists, Inc.....	A52	Fischer Technology, Inc.....	A62
Chase Corp. Tapecoat/Royston.....	A52	Five Star Marine, Inc.....	A62
Chemical Newtech SpA—Titanium Anodes.....	A52	French Creek Software.....	A62
CHLOR*RID International, Inc.....	A52	Galvotec Companies.....	A62
Citadel Technologies.....	A52	Galvotec Corrosion Services.....	A62
ClampOn.....	A54	Gamry Instruments.....	A62
Clemco Industries Corp.....	A54	Garlock (GPT/PSI-Pikotek).....	A62
Clock Spring Co., L.P.....	A54	Gentherm Global Power Technologies.....	A62
Cloverdale Paint.....	A54	Girard Industries.....	A62
Coastal Corrosion Control, Inc.....	A54	GMA Garnet Group.....	A64
Coast to Coast Inspection Services, Inc.....	A54	GMC Electrical, Inc.....	A64
CoatingsPro Magazine.....	A54	Greene's Energy Group.....	A64
Composi Sleeve.....	A54	Haynes International, Inc.....	A64
Composites One.....	A54	H.C. Starck, Inc.....	A64
Continental Industries—thermOweld®.....	A54	HDIM Protective Coatings.....	A64
Copper Development Association.....	A54	Heath Consultants, Inc.....	A64
CORE Linepipe, Inc.....	A54	Hebna Corp.....	A64
Corr Instruments, LLC.....	A54	Hempel USA.....	A64
Corrodys.....	A54	Heresite Protective Coatings, LLC.....	A64
Corrosion Materials.....	A54	High Performance Alloys, Inc.....	A64
Corrosion Service Co., Ltd.....	A54	Hi-Tech Weld Overlay Group, LLC.....	A64
Corrpro Companies, Inc.....	A54	HoldTight Solutions, Inc.....	A66
Cortec Corp.....	A54	Honeywell Corrosion Solutions.....	A66
Cortest, Inc.....	A54	HydroPro, Inc.....	A66
Creaform.....	A56	IBIX North America, Surface Technologies.....	A66
CRTS, Inc.....	A56	Industeel USA, LLC.....	A66
CTI Industries, Inc.....	A56	Industrial Fabrics, Inc.....	A66
Curran International, Inc.....	A56	Industrial Insulation Group.....	A67
Cygnus Instruments, Inc.....	A56	Integrated Global Services.....	A67
Daikin America, Inc.....	A56	Integrity Solutions, Ltd.....	A67
Dairyland Electrical Industries, Inc.....	A56	International Paint.....	A67
Dakota Ultrasonics Corp.....	A56	Interprovincial Corrosion Control Co., Ltd.....	A67
Dale Co., The.....	A56	Intertek.....	A67
Dampney Co., Inc.....	A56	IRISNDT.....	A67
Danatronics Corp.....	A56	IRT Integrated Rectifier Technologies, Inc.....	A68
DC Voltage Gradient Technology & Supply, Ltd. (DCVG, Ltd.).....	A56	Ivium Technologies.....	A68
DeFelsko Corp.....	A57	Jacam and PureChem.....	A68
De Nora Tech, Inc.....	A57	JA Electronics Mfg. Co.....	A68
Denso North America.....	A57	JENTEK Sensors, Inc.....	A68
DNV GL.....	A57	Jotun Paints, Inc.....	A68
DOX Steel, LLC.....	A57	Kantex Industries, Inc.....	A68
Droycon Bioconcepts, Inc.....	A57	Kenway Corp.....	A68
Dupont Industrial Services (Intech Services).....	A57	KEYENCE Canada, Inc.....	A68
Ecolyse, Inc.....	A58	King Innovation.....	A68
EDDYFI.....	A58	Kirk Engineering Co., Inc.....	A68
Elcometer, Inc.....	A58	KTA-Tator, Inc.....	A70
Elcysys Corp.....	A58	Kubota Materials Canada Corp.....	A70
Electralloy, a G.O. Carlson, Inc. Co.....	A58	Laboratory Testing, Inc.....	A70
Element Materials Technology.....	A58	LAIKEN S.A.....	A70
Elsyca NV.....	A58	Lamons.....	A70
Enduro Pipeline Services, Inc.....	A58	Langley Alloys, Inc.....	A70
EN Engineering.....	A60	Ledcor Group of Companies.....	A70
EnerClear Services-Magnum Energy Services.....	A60	Lone Star Specialties, LLC.....	A70
Enviropeel USA.....	A60	Lonza, Inc.....	A70
ErgonArmor Corrosion Engineering.....	A60	LORESCO, Inc.....	A72
ERICO.....	A60	Luna.....	A72
Evonik Corp.....	A60	Mascoat.....	A72
Evoqua Water Technologies.....	A60	MATCOR, Inc.....	A72

Materion Brush Performance Alloys.....	A72	PureHM (Hunter McDonnell Pipeline Services, Inc.).....	A80
M.C. Miller Co., Inc.	A72	Radiodetection.....	A80
Mears Integrity Solutions.....	A72	RAM-100 International, LLC.....	A80
Mersen USA Oxnard—CA, Inc.	A74	REMA Tip Top/North America.....	A80
MESA.....	A74	Remote Automation Monitoring, USA, Inc.	A80
Metal Samples.....	A74	Research & Development Corp.....	A80
Metrohm USA, Inc.....	A74	Rhino Linings Corp.	A80
Microbial Analysis.....	A74	Rilco Manufacturing Co., Inc.....	A80
Microbial Insights, Inc.....	A74	RMB Products, Inc.....	A82
Milliken Pipe Wrap, Inc.....	A74	Rohrbach Cosasco Systems, Inc.....	A82
MISTRAS Group, Inc.	A75	ROSEN.....	A82
M-I SWACO.....	A75	Roxar, Inc.....	A82
Mobile Pipe Linings and Coatings.....	A75	Roxul, Inc.....	A82
Mobiltex Technologies, Inc.	A75	R.U.S.T. Reliable Underground Service Technicians.....	A82
Montipower, Inc.	A75	SAE, Inc.	A82
Monti Werkzeuge, GmbH.....	A75	Sandvik Materials Technology (AB).....	A82
MSES Corrosion Products Division.....	A75	SAUEREISEN, Inc.	A82
Multi-Chem, a Halliburton Service.....	A76	Schmidt + Clemens GmbH + Co. KG.....	A82
Nalco Champion.....	A76	Seaguard International—a division of Canada Metal.....	A82
Nanovea.....	A76	Seal for Life Industries BVBA.....	A82
National Environmental Corrosion Platform.....	A76	Sensorlink AS.....	A82
NCERCAMP—University of Akron.....	A76	Sensor Networks, Inc.....	A82
NDT Seals, Inc.....	A76	Sentry Equipment.....	A82
Ningbo YUXI Cathodic Protection Materials, Co., Ltd.....	A76	SGS North America, Inc.—Industrial Services Div.	A82
Nippon Yakin Kogyo Co., Ltd.....	A76	Shaanxi Elade New Material Technology Co., Ltd.	A82
North American Survey Corp.	A76	Sherwin-Williams.....	A82
Northtown Co.....	A76	Sika Corp. (Tuff-N-Nuff, Ltd.).....	A82
Norton Corrosion, Ltd.....	A76	Solvay.....	A84
Novatek.....	A76	Southwestern Paint Panels.....	A84
NOV Tuboscope.....	A76	Southwest Research Institute.....	A84
NRI-Neptune Research, Inc.....	A76	Specialty Polymer Coatings, Inc. (SPC).....	A84
Nukote Coating Systems Int'l, LLC.....	A76	Specialty Products, Inc.....	A84
Nuova Giungas Srl.....	A76	Spectrum Inspection Engineering, Inc.....	A84
NVI, LLC.....	A76	Speir Hunter, Ltd.	A84
OLI Systems, Inc.....	A76	Sponge-Jet, Inc.	A84
Olympus.....	A76	SSPC.....	A84
OmniMetrix.....	A76	Stainless Structurals America.....	A84
OSPA.....	A77	Stantec.....	A84
Outokumpu Stainless, Inc.	A77	Stone Tucker Instruments, Inc.....	A84
Oxford Instruments.....	A77	Stress Engineering Services.....	A84
Oxifree Global, LLC.....	A77	Structural Integrity Associates, Inc.	A84
Pacific Sensor.....	A77	Stuart Steel Protection Corp.....	A84
P.A., Inc.....	A77	Sulzer Mixpac USA, Inc.....	A84
Park Derochie, Inc.	A77	Superior Products International (SPI).....	A84
Paul N. Gardner Co.....	A77	Swain Meter Co./The.....	A84
PCC Energy Group.....	A77	Tantaine.....	A84
PCC Rollmet.....	A77	TEAM Industrial Services.....	A84
Performance Pipe.....	A77	Technical Toolboxes.....	A84
Permasense, Ltd.....	A77	Technology Design, Ltd.	A86
PEXGOL.....	A80	Tecnofink, Ltd.	A86
Pigs Unlimited International, Inc.....	A80	Teledyne Oil & Gas.....	A86
Pine Research Instrumentation.....	A80	Tesla Nano Coatings, Inc.	A86
Pipeline Inspection Co., Ltd.....	A80	Thermion, Inc.....	A86
Pittsburgh Corning FOAMGLAS® Insulation.....	A80	Thermo-Calc Software.....	A86
Plant Integrity, Ltd.....	A80	Thermo Scientific Portable XRF Analyzers.....	A86
Polycorp Protective Linings.....	A80	Tinker & Rasor.....	A86
Polyguard Products, Inc.....	A80	Titanium Fabrication Corp.....	A86
PPG PMC.....	A80	Tnemec Co., Inc.....	A86
Praxair Surface Technologies, Inc.....	A80	Transfield, Inc.	A86
Princeton Applied Research.....	A80	Trenton Corp.....	A86
Pro-Mark Utility Supply, Inc.	A80	Tricor Metals.....	A86

TruQC.....	A86	Housing	
Ultramet CPT.....	A86	Faxed Reservations.....	A13
Ulva Insulation Systems, Ltd.....	A86	Housing Closes.....	A11
United Pipeline Systems, Inc.....	A86	Housing Opens.....	A11
United Titanium, Inc.....	A86	Internet Reservations.....	A13
Valbruna Stainless, Inc.....	A86	Mailing Reservations.....	A13
VDM Metals USA, LLC.....	A88	Official Conference Hotels.....	A12
Villares Metals.....	A88	Important Contacts	A11
VISCOTAQ (Amcorr Products & Services).....	A88	Message from the President	A2
Vivax-Metrotech.....	A88	My Itinerary	A8
Wasser Coatings.....	A88	NACE Bookstore	A8
Water Star, Inc.....	A88	NACE Information Kiosks	A8
Wesmat Supplies.....	A88	Official Conference Language	A8
Western Falcon.....	A88	Payment information	A11
Wood Group Mustang, Inc.....	A88	Press Office	A8
WrapMaster, Inc.....	A88	Professional Development Hours (PDHs) Stations	A8
Xi'an Taijin Industrial Electrochemical Technology, Co., Ltd.....	A88	Registration	
Xing Chan Tai Anodes Technology (Beijing) Co., Ltd. (XCTAT).....	A88	Advance/Full Registration.....	A10
ZCL Composites, Inc.....	A88	Advance Registration Closes.....	A11
Zerust Oil & Gas.....	A88	Cancellation Policies.....	A11
Zetec, Inc.....	A88	Guest Program Registration.....	A10
Cathodic Protection Field	A43	One- and Two-Day Registrations.....	A10
CORROSION 2016 Floorplan	A44	Online Registration Closes.....	A11
Product Showcase	A43	Registration Opens.....	A11
Exhibition, General Information		Registration Policies.....	A11
Corrosive Chronicles Theater.....	A42	Registration Types.....	A10
Expo Events.....	A42	Student Registrations.....	A10
Expo Schedule.....	A42	VISA Application for International Delegates	A8
Student Poster Display.....	A42	Week-At-A-Glance	A6
		What's New at CORROSION 2016	A14
	F	Guest Program	
Forums		Continental Breakfast.....	A89
Chinese Society for Corrosion and Protection Seminar.....	A15	Guest Program Registration.....	A10
Coatings		Guest Reception.....	A89
How to Avoid Premature Coatings Failures.....	A15	Private Vancouver Tour	
NIICAP—The New NACE International Institute Contractor Accreditation Program.....	A16	Chinatown.....	A89
Microbiologically Influenced Corrosion		English Bay.....	A89
Management of MIC in the Oil, Gas and Petroleum Industry.....	A15	Gastown.....	A89
Pipeline Safety		Granville Island Market Tour with Vancouver Foodie Tours.....	A90
Working in the Pipeline Industry: The Real World Need for a Safety Culture.....	A16	Grouse Mountain.....	A90
Pipelines, Tanks, Well Casings		Horseshoe Bay Village.....	A90
International Pipeline Operators Council.....	A16	Kitsilano.....	A89
Working in the Pipeline Industry: The Real World Need for a Safety Culture.....	A16	Museum of Anthropology.....	A89
Transportation		Queen Elizabeth Park.....	A90
NACE Transportation Structures Forum.....	A15	Stanley Park.....	A89
Water and Wastewater		Vancouver Art Gallery.....	A89
Water Forum: Innovations and Advances in the Water Industry.....	A16		
	G		H
General Information		High Temperature	
Conference Shuttle Service.....	A8	Symposia, Technical	
Corporate Access Lounge and Diamond Access Lounge.....	A8	High-Temperature Issues and Materials for the Process Industry.....	A17
CORROSION 2016 Conference Papers.....	A8	Housing	
CORROSION 2016 Location.....	A8	Faxed Reservations.....	A13
Dress Code.....	A8	Housing Closes.....	A11
Express Pass and Registration.....	A8	Housing Opens.....	A11
Getting to Vancouver.....	A8	Internet Reservations.....	A13
		Mailing Reservations.....	A13
		Official Conference Hotels.....	A12
		Hydrogen Permeation	
		Symposia, Technical	
		Hydrogen Permeation.....	A17

I

Inhibitors, Inhibition

Meetings, Technical Committees

Inhibitors: Water Reuse Issues in System.....	A27
Oil and Gas Production, Sour Corrosion: Information Exchange.....	A24
State-of-the-Art Research on Corrosion Inhibitors.....	A27
Oil and Gas Production—Corrosion and Scale Inhibition.....	A25
Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection.....	A27
Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection: Advances and Novel Applications.....	A27
Volatile Corrosion Inhibitors (VCIs).....	A27

Symposia, Research

<i>Research in Progress</i> Coatings and Inhibitors.....	A21
-------------------------------------------------------------	-----

Symposia, Technical

Inhibitors—Vapor Transported (VCI) and Surface Coatings/Rust Preventives.....	A19
Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion Inhibitors.....	A17

L

Lectures

Award Lectures

Frank Newman Speller Award Lecture.....	A33
Willis Rodney Whitney Award Lecture.....	A33

Keynote Session

Steve Kroft.....	A32
------------------	-----

Plenary Lecture

Ken Tator, KTA-Tator.....	A32
---------------------------	-----

M

Marine Corrosion. *See also* Corrosion, Marine

Meetings, Technical Committees

Marine Corrosion of Copper Alloys.....	A27
Marine Corrosion; Ships and Structures TIE.....	A27

Symposia, Technical

Control and Management of Corrosion and Scaling from Inland to Subsea Fields.....	A19
--------------------------------------------------------------------------------------	-----

Material Selection

Symposia, Technical

Advances in Materials for Oil and Gas Production.....	A17, 18
-------------------------------------------------------	---------

Meetings, Administrative

Annual Conference Program Committee (ACPC)—Session 1.....	A30
Annual Conference Program Committee (ACPC)—Session 2.....	A31
Area Coordination Committee.....	A30
Board of Directors Meeting.....	A30
Executive Committee/Board Orientation.....	A30
MP Editorial Advisory Board.....	A30
Nominating Committee Meeting.....	A30
Past Presidents Council.....	A30
Past Presidents Reception.....	A30
Policy Committee.....	A30
Publications Activities Committee.....	A30
Research Committee.....	A30
TCC Operations Committee.....	A30
TCC Planning Committee.....	A31
TCC Reference Publications Committee (RPC).....	A30
Technical and Research Activities Committee (TRAC).....	A30
Technical Coordination Committee (TCC)—Session 1.....	A30
Technical Coordination Committee (TCC)—Session 2.....	A30

Meetings, ISO

ISO TC 35 TAG.....	A30
ISO TC 156 TAG.....	A30
MR0175/ISO 15156 Maintenance Agency.....	A30
MR0175/ISO 15156 Maintenance Panel.....	A30
OGP 23936 ISO TC 67/WG7/TG Non-Metallics.....	A30
OGP 23963 ISO TC 67/WG7/TG Non-Metallics.....	A30
TG 299 Oversight of Maintenance Panel.....	A30

Meetings, Other

Annual Conference Program Committee (ACPC) Symposium Officer Training.....	A31
Awards Committee.....	A31
Career Advancement Center.....	A31
Central Area Board of Trustees.....	A31
CORROSION Editorial Board.....	A31
CORROSION: Opportunities Realized Mini-Camp.....	A31
East Asia and Pacific Rim Board of Trustees.....	A31
Eastern Area Board of Trustees.....	A31
European Area Board of Trustees.....	A31
Fellows' Breakfast.....	A31
General Membership.....	A30
International Area Directors.....	A30
Latin America Board of Trustees.....	A30
NACE British Columbia Section.....	A31
NACE Foundation Board of Directors.....	A30
NACE U Student Meeting.....	A31
Nigerian Corrosion Professionals.....	A30
NII Policy and Practices Committee.....	A30
NII Specialty Board for Pipeline Coatings.....	A30
NII Specialty Board for Protective Coatings.....	A30
Northern Area Board of Trustees.....	A31
Section Officer Forum.....	A31
STG Officer Training.....	A31
Student Business Meeting.....	A31
Student Poster Orientation Breakfast.....	A31
Student Poster Winners' Lunch.....	A31
TCC Operations Committee.....	A31
TCC Technology and Program Coordinator Training.....	A31
Technical Committees 101—Session 1.....	A30
Technical Committees 101—Session 2.....	A31
Technical Coordination Committee (TCC) International Coordination Committee.....	A31
Technical Coordination Committee (TCC)—Session 1.....	A31
Technical Coordination Committee (TCC)—Session 2.....	A31
WCO Board of Administrators.....	A31
WCO General Assembly.....	A31
West Asia and Africa Area Board of Trustees.....	A31
Western Area Board of Trustees.....	A31

Meetings, Special

General Membership Business Meeting.....	A33
------------------------------------------	-----

Meetings, Technical Committees

Biomedical Materials/Devices

Biomedical Implant Device Corrosion.....	A27
------------------------------------------	-----

Cathodic Protection

Cathodic Protection.....	A23
Cathodic Protection in Seawater—Discussion of Current Topics.....	A24
Cathodic Protection: Pipe-Type Cable.....	A23
Cathodic Protection Systems, Retrofit, for Offshore Platforms.....	A24
DC Traction Stray Current Problems.....	A23
Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35 Pipelines, Tanks, and Well Casings.....	A23

National Adoption of ISO 15589-2:2012.....	A24	Corrosion Monitoring and Measurement	A28
Offshore Steel Platforms—Corrosion Control: Review of NACE SP0176	A24	Electrochemical Measurements	A28
Review of NACE SP0388-2014 and SP0196-2011	A23	Hydrogen Permeation Technology—Online	A28
Steel, Structural: Corrosion Control of Pilings in Nonmarine Applications	A23	Revise NACE Publication 3T199	A28
Cleaning: Chemical and Mechanical Cleaning		Sensors: Corrosion and Corrosiveness Sensor Technology.....	A28
Cleaning: Chemical and Mechanical Cleaning	A24	Testing of Nonshielding Property of Pipeline Coatings to Cathodic Protection	A28
Coatings		Inhibitors, Inhibition	
Coating Conductance	A23	Oil and Gas Production, Sour Corrosion: Information Exchange	A24
Coating Thickness Measurement, Methods, and Recording—Specific to the Railcar Industry	A27	State-of-the-Art Research on Corrosion Inhibitors.....	A27
Determining True Insulative Value of Liquid Insulative Materials Applied on Steel Surfaces	A23	Oil and Gas Production—Corrosion and Scale Inhibition	A25
Elastomers and other Nonmetallics for Oilfield Sealing Service	A25	Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection.....	A27
Guidelines for Data Collection and Analysis of Railroad Tank Car Interior Coating/Lining Condition.....	A27	Vapor Corrosion Inhibitors and Rust Preventives for Interim (Temporary) Corrosion Protection: Advances and Novel Applications	A27
Guidelines for Qualifying Personnel as Abrasive Blasters and Coating and Lining Applicators in the Rail Industry	A27	Volatile Corrosion Inhibitors (VCI)	A27
Hot-Dip Galvanizing for Steel Corrosion Protection	A23	Marine Corrosion	
Identification of Existing Buried Pipe Coatings in Nuclear Power Plants	A26	Marine Corrosion of Copper Alloys.....	A27
Land Transportation: Information Exchange on Corrosion and Coating-Related Issues	A27	Marine Corrosion; Ships and Structures TIE.....	A27
Maintenance Overcoating of Railcar Exteriors.....	A27	Metals	
Nuclear Power Plant Buried Pipe Coatings Condition Assessment	A26	Computerized Environmental Cracking Database	A25
Railcars: Coating Application on Exterior Surfaces of Steel Railcars	A27	Cracking, Stepwise: Pipeline Steels—Review of NACE Standard TM0284	A25
Review and Revise or Reaffirm as Necessary NACE SP0181-2006	A25	Double-Cantilever-Beam (DCB) Test	A25
Soluble Salt Testing Frequency and Locations on Previously Coated Surfaces.....	A23	Evaluation of Carbon and Low-Alloy Steels for Resistance to Stress-Oriented Hydrogen-Induced Cracking	A25
STG 02, 03, and 04 Joint Meeting.....	A23	Four-Point Bend Test Method.....	A25
Surface Preparation by Encapsulated Blast Media for Repair of Existing Coatings on Railcars	A27	Metals: Reactive	A26
Test Methods of Determining True Insulation Value of Liquid Insulative Materials Applied on Steel Surfaces from 80 °F to 375 °F.....	A23	Oil and Gas Production Materials Information Exchange	A25
Concrete		Oil and Gas Production—Metallurgy	A25
Inspection Methods for Corrosion Evaluation of Prestressed Concrete Structures	A23	Stainless Steels: Austenitic and Nickel Alloys	A26
Reinforced Concrete: Design Considerations for Corrosion Control	A23	Stainless Steels, Duplex and Ferritic: Application	A26
Reinforced Concrete: Design, Evaluation, and Remediation.....	A23	STG 32 Steering Committee	A25
Reinforced Concrete: Electrochemical Chloride Removal and Realkalization.....	A23	Sulfide Corrosion Cracking: Metallic Materials Testing Techniques.....	A25
Reinforced Concrete: Evaluation of Concrete Structures	A23	Microbiologically Influenced Corrosion	
Reinforced Concrete: Proposed Revision to NACE SP0290-2007	A23	Microbiologically Influenced Corrosion	A27
Reinforced Concrete: Sacrificial Cathodic Protection of Reinforced Concrete Elements	A23	Oil and Gas Production: Microbially Influenced Corrosion	A25
Reinforced Concrete: Stray-Current-Induced Corrosion	A23	Nanotechnology	
Review and Revise TM0294	A23	Nanotechnology and Corrosion.....	A27
Testing and Evaluation of Corrosion on Steel-Framed Buildings	A23	Nonmetals	
Corrosion Management		Elastomers and other Nonmetallics for Oilfield Sealing Service	A25
Economics of Corrosion Management.....	A24	Nonmetallic Material of Construction: Basic Education	A24
Corrosion, Marine		Nonmetallic Materials of Construction	A24
Marine Corrosion of Copper Alloys.....	A27	Plastics: Managing Corrosion with Polymer-Based and Composite Materials.....	A24
Marine Corrosion; Ships and Structures TIE.....	A27	Review and Revise or Reaffirm as Necessary NACE SP0181-2006	A25
Corrosion Mechanisms		Nuclear	
Atmospheric Corrosion.....	A27	Identification of Existing Buried Pipe Coatings in Nuclear Power Plants	A26
Biodegradable Magnesium Alloys.....	A27	Nuclear Power Plant Buried Pipe Coatings Condition Assessment	A26
Biomedical Implant Device Corrosion.....	A27	Nuclear System Corrosion	A26
Corrosion Mechanisms	A27	Oil & Gas	
Microbiologically Influenced Corrosion	A27	Biocides—Oil and Gas Industry.....	A25
Nanotechnology and Corrosion.....	A27	Cathodic Protection in Seawater—Discussion of Current Topics.....	A24
Corrosion Monitoring		Cathodic Protection Systems, Retrofit, for Offshore Platforms.....	A24
Acoustic Emission Testing and Measurement.....	A28	Computerized Environmental Cracking Database	A25
		Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining Industries	A24
		Cracking, Stepwise: Pipeline Steels—Review of NACE Standard TM0284	A25
		Double-Cantilever-Beam (DCB) Test	A25
		Elastomers and other Nonmetallics for Oilfield Sealing Service	A25

Evaluation of Carbon and Low-Alloy Steels for Resistance to Stress-Oriented Hydrogen-Induced Cracking	A25
Four-Point Bend Test Method	A25
National Adoption of ISO 15589-2:2012	A24
Offshore Steel Platforms—Corrosion Control: Review of NACE SP0176	A24
Oil and Gas Exploration Corrosion: Information Exchange	A25
Oil and Gas Production, Deepwater Corrosion and Scale Control: Information Exchange	A24
Oil and Gas Production, Internal Erosion and Corrosion: Information Exchange	A24
Oil and Gas Production, Internal Erosion and Corrosion: Strategy for Monitoring and/or Detection	A25
Oil and Gas Production Materials Information Exchange	A25
Oil and Gas Production—Metallurgy	A25
Oil and Gas Production: Microbially Influenced Corrosion	A25
Oil and Gas Production, Oil Sands: Information Exchange	A24
Oil and Gas Production, Sour Corrosion: Information Exchange	A24
Review and Revise or Reaffirm as Necessary NACE SP0181-2006	A25
Oil and Gas Production—Corrosion and Scale Inhibition	A25
STG 32 Steering Committee	A25
Sulfide Corrosion Cracking: Metallic Materials Testing Techniques	A25
Oil Sands	
Oil and Gas Production, Oil Sands: Information Exchange	A24
Pipelines, Tanks, Well Casings	
3D Laser and Structured Light	A26
Cracking, Stepwise: Pipeline Steels—Review of NACE Standard TM0284	A25
Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35 Pipelines, Tanks, and Well Casings	A26
Pipeline Corrosion Management	A26
Pipeline Crossings: Steel-Cased, Thrust-Bored, and HDD	A25
Pipeline Direct Assessment Methodology	A26
Pipeline Inspection: In-Line Nondestructive—Review of NACE SP0102-2010	A26
Pipelines: In-Line Inspection	A26
Pipelines: Liquid Petroleum Industry Corrosion Control Issues Forum	A25
Review and Revise as Necessary NACE Publication 35100	A26
Review and Revise as Necessary NACE Standard TM0212-2012	A26
Review and Revise as Necessary SP0186-2007	A26
Revise or Reaffirm as Necessary SP0110-2010	A25
Steel Pipelines and Piping Systems: Internal Corrosion Control	A26
Technical Guidance for Using Self-Propelled In-Line Inspection Devices in the Direct Examination Phase of External Corrosion Direct Assessment	A26
Well Casings, Corrosion Control: Information Exchange	A26
Plastics	
Plastics: Managing Corrosion with Polymer-Based and Composite Materials	A24
Pollution Control	
FGD Pollution Control Industries Corrosion Control	A27
Pollution Control, Waste Incineration, and Process Waste	A27
Power & Energy Generation	
Combustion and Conversion of Fossil and Alternative Fuels	A26
Electric Utility Generation, Transmission, and Distribution	A26
Identification of Existing Buried Pipe Coatings in Nuclear Power Plants	A26
Nuclear Buried and Underground Piping	A26
Nuclear Power Plant Buried Pipe Coatings Condition Assessment	A26
Nuclear System Corrosion	A26
Process Industries	
CUI: Revision of NACE SP0198	A26
Failure Prevention Case Histories	A26
Hydrochloric Acid and Chlorine: Materials and Experiences	A26
Materials, Advanced, for High-Temperature Service in the CPI	A26
Materials, High Temperature: Current Issues	A26
Materials Selection and Corrosion Control in the Mineral Processing Industries	A26
Metal Dusting and Associated Phenomena: Effects on Materials Performance	A26
Metals: Reactive	A26
Process Industry: High Temperature	A26
Stainless Steels: Austenitic and Nickel Alloys	A26
Stainless Steels, Duplex and Ferritic: Application	A26
Sulfuric Acid—Material and Experiences	A26
Refining	
API 751 Advisory on HF Alkylation	A25
Carbonate SCC—Update of Publication 34108	A25
Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining Industries	A24
Crude Column OVHD Corrosion—Update of Publication 34109	A25
Crude Quality Parameters for Corrosion	A25
Gas Treating Control Systems Corrosion Minimization	A25
Injection and Mix Points SP0114	A25
Petroleum Refinery Corrosion Specialist Certification	A25
Petroleum Refining Sulfide Stress Cracking (SSC): Review of NACE Standard MR0103	A25
Refining Information Exchange Session I	A25
Refining Information Exchange Session II	A25
STG 34 Steering	A25
Sour Corrosion	
Oil and Gas Production, Sour Corrosion: Information Exchange	A24
Transportation	
Coating Thickness Measurement, Methods, and Recording—Specific to the Railcar Industry	A27
Guidelines for Data Collection and Analysis of Railroad Tank Car Interior Coating/Lining Condition	A27
Guidelines for Qualifying Personnel as Abrasive Blasters and Coating and Lining Applicators in the Rail Industry	A27
Land Transportation: Information Exchange on Corrosion and Coating-Related Issues	A27
Maintenance Overcoating of Railcar Exteriors	A27
Railcars: Coating Application on Exterior Surfaces of Steel Railcars	A27
Review and Revise or Reaffirm as Necessary NACE SP0295-2008	A27
Review and Revise or Reaffirm as Necessary NACE SP0386-2007	A27
Review and Revise or Reaffirm NACE SP0302-2007	A27
Revision of NACE SP0592 (formerly RP0592)	A27
Surface Preparation by Encapsulated Blast Media for Repair of Existing Coatings on Railcars	A27
Transportation, Land	A27
Water and Wastewater	
Biocide Application/Misapplication	A24
Boiler Waterside Failure Analysis	A24
Building Fire Protection Systems: Corrosion and Deposit Control	A24
Cooling Water Equipment, Initial Conditioning	A24
Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining Industries	A24
Fire Protection Systems	A24
Practical Applications of Water Treatment in Industrial and Commercial Systems	A24
Recovery and Repassivation after Low pH Excursions in Open Recirculating Cooling Water Systems	A24
Review and Revise or Reaffirm NACE Publication 46107	A24

Review and Revise or Reaffirm SP0590-2015A24
 Water Treatment, Physical Process: Guidelines for Testing.....A24

Metals

Meetings, Technical Committees

Computerized Environmental Cracking DatabaseA25
 Cracking, Stepwise: Pipeline Steels—
 Review of NACE Standard TM0284.....A25
 Double-Cantilever-Beam (DCB) TestA25
 Evaluation of Carbon and Low-Alloy Steels for Resistance to
 Stress-Oriented Hydrogen-Induced CrackingA25
 Four-Point Bend Test Method.....A25
 Metals: Reactive.....A26
 Oil and Gas Production Materials Information ExchangeA25
 Oil and Gas Production—MetallurgyA25
 Stainless Steels: Austenitic and Nickel AlloysA26
 Stainless Steels, Duplex and Ferritic: ApplicationA26
 STG 32 Steering CommitteeA25
 Sulfide Corrosion Cracking: Metallic Materials Testing Techniques...A25

Symposia, Technical

Electrochemical Corrosion Control of Steel in ConcreteA18
 Recent Experiences with Nickel, Titanium, Zirconium, and Other
 Corrosion-Resistant Alloys.....A19
 Recent Experience with Austenitic and Duplex Stainless SteelA17

Microbiologically Influenced Corrosion

Forums

Management of MIC in the Oil, Gas and Petroleum IndustryA15

Meetings, Technical Committees

Microbiologically Influenced CorrosionA27
 Oil and Gas Production: Microbially Influenced Corrosion.....A25

Symposia, Technical

Control of Problematic Microorganisms in Oil and Gas Field Operations ..A18
 Microbially Influenced CorrosionA17, 18

Military

Symposia, Technical

Corrosion Issues in Military Equipment and FacilitiesA18

Mining

Symposia, Technical

Corrosion in Oil Sands.....A18

N

Nanotechnology

Meetings, Technical Committees

Nanotechnology and Corrosion.....A27

Networking Events

21st Annual NACE Race.....A35
 30 Below—For Students and Young ProfessionalsA36
 Awards DinnerA38
 Career Advancement Center.....A36
 Casino Night Vancouver.....A35
 CORROSION: Opportunities RealizedA37
 Engaging Women in Leadership Workshop.....A38
 Expo Grand Opening.....A36
 NACE U Student MeetingA36
 Northern Lights & BitesA35
 Retro Rewind.....A36
 Section Officer Forum.....A38
 Technical Committees 101.....A35

Nonmetals

Meetings, Technical Committees

Elastomers and Other Nonmetallics for Oilfield Sealing Service.....A25
 Nonmetallic Material of Construction: Basic EducationA24

Nonmetallic Materials of ConstructionA24
 Plastics: Managing Corrosion with Polymer-Based and Composite
 Materials.....A24
 Review and Revise or Reaffirm as Necessary NACE SP0181-2006.....A25

Symposia, Technical

Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)A17

Nuclear

Meetings, Technical Committees

Identification of Existing Buried Pipe Coatings in Nuclear Power Plants ...A26
 Nuclear Power Plant Buried Pipe Coatings Condition AssessmentA26
 Nuclear System CorrosionA26

Symposia, Technical

Corrosion and Corrosion Control of Buried Piping in
 Nuclear Power Plants.....A19
 Corrosion in Nuclear Systems.....A17, 18

O

Oil & Gas

Meetings, Technical Committees

Biocides—Oil and Gas Industry.....A25
 Cathodic Protection in Seawater—Discussion of Current Topics.....A24
 Cathodic Protection Systems, Retrofit, for Offshore PlatformsA24
 Computerized Environmental Cracking DatabaseA25
 Cost of Water and Steam System Corrosion in the Chemical
 Processing and Petroleum Refining IndustriesA24
 Cracking, Stepwise: Pipeline Steels—Review of NACE Standard
 TM0284A25
 Double-Cantilever-Beam (DCB) TestA25
 Elastomers and other Nonmetallics for Oilfield Sealing ServiceA25
 Evaluation of Carbon and Low-Alloy Steels for Resistance to
 Stress-Oriented Hydrogen-Induced CrackingA25
 Four-Point Bend Test Method.....A25
 National Adoption of ISO 15589-2:2012.....A24
 Offshore Steel Platforms—Corrosion Control: Review of NACE SP0176 ..A24
 Oil and Gas Exploration Corrosion: Information Exchange.....A25
 Oil and Gas Production, Deepwater Corrosion and Scale Control:
 Information ExchangeA24
 Oil and Gas Production, Internal Erosion and Corrosion: Information
 ExchangeA24
 Oil and Gas Production, Internal Erosion and Corrosion:
 Strategy for Monitoring and/or Detection.....A25
 Oil and Gas Production Materials Information ExchangeA25
 Oil and Gas Production—MetallurgyA25
 Oil and Gas Production: Microbially Influenced CorrosionA25
 Oil and Gas Production, Oil Sands: Information Exchange.....A24
 Oil and Gas Production, Sour Corrosion: Information ExchangeA24
 Review and Revise or Reaffirm as Necessary NACE SP0181-2006.....A25
 Oil and Gas Production—Corrosion and Scale InhibitionA25
 STG 32 Steering CommitteeA25
 Sulfide Corrosion Cracking: Metallic Materials Testing Techniques...A25

Symposia, Research

Research Topical Symposium
 Hydrogen Effects in Cracking.....A21

Symposia, Technical

Advances in Corrosion Control in Combustion and ConversionA19
 Advances in Materials for Oil and Gas ProductionA17, 18
 Corrosion in Gas Treating.....A17
 Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial
 Applications of High-Temperature Corrosion InhibitorsA17
 Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic)A17
 Oil/Gas Coating Technology Symposium (Day 1).....A19

Oil/Gas Coating Technology Symposium (Day 2).....	A20
Practical Field Application of Cathodic Protection in Oil and Gas Production	A17
Sour Corrosion (Day 1)	A19
Oil Sands	
Meetings, Technical Committees	
Oil and Gas Production, Oil Sands: Information Exchange.....	A24
Symposia, Technical	
Corrosion in Oil Sands.....	A18
P	
Pipeline Integrity	
Symposia, Technical	
Pipeline Integrity.....	A17, 18
Pipeline Safety	
Forums	
Working in the Pipeline Industry: The Real World Need for a Safety Culture.....	A16
Symposia, Technical	
Pipeline Integrity.....	A17, 18
Pipelines, Tanks, Well Casings	
Forums	
International Pipeline Operators Council.....	A16
Working in the Pipeline Industry: The Real World Need for a Safety Culture.....	A16
Meetings, Technical Committees	
3D Laser and Structured Light	A26
Cracking, Stepwise: Pipeline Steels—Review of NACE Standard TM0284	A25
Joint Meeting STG 05 Cathodic/Anodic Protection and STG 35 Pipelines, Tanks, and Well Casings	A26
Pipeline Corrosion Management	A26
Pipeline Crossings: Steel-Cased, Thrust-Bored, and HDD	A25
Pipeline Direct Assessment Methodology	A26
Pipeline Inspection: In-Line Nondestructive— Review of NACE SP0102-2010	A26
Pipelines: In-Line Inspection	A26
Pipelines: Liquid Petroleum Industry Corrosion Control Issues Forum	A25
Review and Revise as Necessary NACE Publication 35100	A26
Review and Revise as Necessary NACE Standard TM0212-2012.....	A26
Review and Revise as Necessary SP0186-2007.....	A26
Revise or Reaffirm as Necessary SP0110-2010	A25
Steel Pipelines and Piping Systems: Internal Corrosion Control.....	A26
Technical Guidance for Using Self-Propelled In-Line Inspection Devices in the Direct Examination Phase of External Corrosion Direct Assessment.....	A26
Well Casings, Corrosion Control: Information Exchange.....	A26
Symposia, Technical	
Pipeline Integrity.....	A17, 18
Top-of-the-Line Corrosion	A19
Plastics	
Meetings, Technical Committees	
Plastics: Managing Corrosion with Polymer-Based and Composite Materials.....	A24
Plenary Lecture	
Lectures	
Ken Tator, KTA-Tator	A32
Pollution Control	
Meetings, Technical Committees	
FGD Pollution Control Industries Corrosion Control	A27
Pollution Control, Waste Incineration, and Process Waste	A27
Polymers	
Symposia, Technical	
Managing Corrosion with Polymers.....	A18
Power & Energy Generation	
Meetings, Technical Committees	
Combustion and Conversion of Fossil and Alternative Fuels	A26
Electric Utility Generation, Transmission, and Distribution.....	A26
Identification of Existing Buried Pipe Coatings in Nuclear Power Plants ...	A26
Nuclear Buried and Underground Piping	A26
Nuclear Power Plant Buried Pipe Coatings Condition Assessment	A26
Nuclear System Corrosion	A26
Symposia, Technical	
Advances in Corrosion Control in Combustion and Conversion	A19
Geothermal System Corrosion and Scaling.....	A19
Press, Media	
Press Office	A8
Process Industries	
Meetings, Technical Committees	
CUI: Revision of NACE SP0198	A26
Failure Prevention Case Histories.....	A26
Hydrochloric Acid and Chlorine: Materials and Experiences	A26
Materials, Advanced, for High-Temperature Service in the CPI.....	A26
Materials, High Temperature: Current Issues.....	A26
Materials Selection and Corrosion Control in the Mineral Processing Industries	A26
Metal Dusting and Associated Phenomena: Effects on Materials Performance	A26
Metals: Reactive	A26
Process Industry: High Temperature	A26
Reformer Componets: Material Issues	A26
Stainless Steels: Austenitic and Nickel Alloys	A26
Stainless Steels, Duplex and Ferritic: Application	A26
Sulfuric Acid—Material and Experiences.....	A26
Symposia, Technical	
High-Temperature Issues and Materials for the Process Industry	A17
Pulp & Paper	
Symposia, Technical	
Corrosion Control in the Pulp, Papermaking, and Biomass Conversion Industries.....	A18
R	
Refining	
Meetings, Technical Committees	
API 751 Advisory on HF Alkylation.....	A25
Carbonate SCC—Update of Publication 34108.....	A25
Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining Industries	A24
Crude Column OVHD Corrosion—Update of Publication 34109	A25
Crude Quality Parameters for Corrosion	A25
Gas Treating Control Systems Corrosion Minimization.....	A25
Injection and Mix Points SP0114.....	A25
Petroleum Refinery Corrosion Specialist Certification	A25
Petroleum Refining Sulfide Stress Cracking (SSC): Review of NACE Standard MR0103	A25
Refining Information Exchange Session I	A25
Refining Information Exchange Session II	A25
STG 34 Steering	A25
Symposia, Technical	
Refining Industry Corrosion.....	A18
Registration	
Advance Registration Closes	A11

Cancellation Policies.....	A11
Express Pass and Registration.....	A8
Online Registration Closes.....	A11
Registration Opens.....	A11
Registration Policies.....	A11
Registration Types.....	A10
S	
Sour Corrosion	
Meetings, Technical Committees	
Oil and Gas Production, Sour Corrosion: Information Exchange.....	A24
Symposia, Technical	
Sour Corrosion (Day 1).....	A19
Sour Corrosion (Day 2).....	A20
Student Poster Session	
Student Poster Display.....	A42
Supercritical Systems	
Symposia, Technical	
Corrosion in Supercritical Systems.....	A17
Symposia, Research	
Coatings	
Research in Progress	
Coatings and Inhibitors.....	A21
Corrosion Science & Engineering	
Research in Progress	
In Situ Methods for Corrosion Analysis.....	A21
Integrated Computational Materials Engineering (ICME) and Corrosion.....	A21
Inhibitors, Inhibition	
Research in Progress	
Coatings and Inhibitors.....	A21
Oil & Gas	
Research Topical Symposium	
Hydrogen Effects in Cracking.....	A21
Research in Progress	
<i>Coatings</i>	
Coatings and Inhibitors.....	A21
Corrosion, Localized In Situ Methods for Corrosion Analysis.....	A21
Passivity and Localized Corrosion.....	A21
Student Poster Session	A21
Symposia, Technical	
Anodes, Anodic Protection	
Anodic and Cathodic Protection.....	A19
Biomedical Materials/Devices	
Corrosion of Biomedical Materials and Devices.....	A18
Cathodic Protection	
Anodic and Cathodic Protection.....	A19
Electrochemical Corrosion Control of Steel in Concrete.....	A18
Practical Field Application of Cathodic Protection in Oil and Gas Production.....	A17
Coatings	
Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic).....	A17
Oil/Gas Coating Technology Symposium (Day 1).....	A19
Oil/Gas Coating Technology Symposium (Day 2).....	A20
Corrosion/Erosion	
Fluid-Induced Degradation—Corrosion/Erosion and Their Interactions.....	A17
Underdeposit Corrosion.....	A18
Corrosion Management	
Control and Management of Corrosion and Scaling from Inland to Subsea Fields.....	A19
Corrosion Management.....	A17
Corrosion, Marine	
Control and Management of Corrosion and Scaling from Inland to Subsea Fields.....	A19
Marine Corrosion.....	A18
Corrosion Mechanisms	
Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 1).....	A19
Mechanisms of Localized Corrosion: Symposium in Memory of Professor J.R. Galvele (Day 2).....	A20
Corrosion Modeling	
Modeling of Corrosion Prediction from System Conditions.....	A19
Corrosion Monitoring	
Corrosion Monitoring Technologies for Industrial Applications.....	A18
Novel Use of Multielectrode Systems for Corrosion Monitoring and Studies.....	A18
Corrosion-Resistant Alloys	
Recent Experiences with Nickel, Titanium, Zirconium, and Other Corrosion-Resistant Alloys.....	A19
Direct Assessment	
Direct Assessment.....	A19
Environmentally Assisted Cracking	
Environmentally Assisted Cracking (Day 1).....	A19
Environmentally Assisted Cracking (Day 2).....	A20
High Temperature	
High-Temperature Issues and Materials for the Process Industry.....	A17
Hydrogen Permeation	
Hydrogen Permeation.....	A17
Inhibitors, Inhibition	
Inhibitors—Vapor Transported (VCI) and Surface Coatings/Rust Preventives.....	A19
Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion Inhibitors.....	A17
Marine Corrosion	
Control and Management of Corrosion and Scaling from Inland to Subsea Fields.....	A19
Material Selection	
Advances in Materials for Oil and Gas Production.....	A17, 18
Metals	
Electrochemical Corrosion Control of Steel in Concrete.....	A18
Recent Experiences with Nickel, Titanium, Zirconium, and Other Corrosion-Resistant Alloys.....	A19
Recent Experience with Austenitic and Duplex Stainless Steel.....	A17
Microbiologically Influenced Corrosion	
Control of Problematic Microorganisms in Oil and Gas Field Operations.....	A18
Microbially Influenced Corrosion.....	A17, 18
Military	
Corrosion Issues in Military Equipment and Facilities.....	A18
Mining	
Corrosion in Oil Sands.....	A18
Nonmetals	
Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic).....	A17

Nuclear

- Corrosion and Corrosion Control of Buried Piping in Nuclear Power Plants.....A19
- Corrosion in Nuclear Systems.....A17, 18

Oil & Gas

- Advances in Corrosion Control in Combustion and ConversionA19
- Advances in Materials for Oil and Gas ProductionA17, 18
- Corrosion in Gas Treating.....A17
- Oil and Gas Corrosion Inhibitors for Harsh Environments and Industrial Applications of High-Temperature Corrosion InhibitorsA17
- Oil and Gas Production—Nonmetallics and Wear Coatings (Metallic).....A17
- Oil/Gas Coating Technology Symposium (Day 1).....A19
- Oil/Gas Coating Technology Symposium (Day 2).....A20
- Practical Field Application of Cathodic Protection in Oil and Gas ProductionA17
- Sour Corrosion (Day 1)A19

Oil Sands

- Corrosion in Oil Sands.....A18

Pipeline Integrity

- Pipeline Integrity.....A17, 18

Pipeline Safety

- Pipeline Integrity.....A17, 18

Pipelines, Tanks, Well Casings

- Pipeline Integrity.....A17, 18
- Top-of-the-Line CorrosionA19

Polymers

- Managing Corrosion with Polymers.....A18

Power & Energy Generation

- Advances in Corrosion Control in Combustion and ConversionA19
- Geothermal System Corrosion and Scaling.....A19

Process Industries

- High-Temperature Issues and Materials for the Process Industry.....A17

Pulp & Paper

- Corrosion Control in the Pulp, Papermaking, and Biomass Conversion Industries.....A18

Refining

- Refining Industry Corrosion.....A18

Sour Corrosion

- Sour Corrosion (Day 1)A19
- Sour Corrosion (Day 2)A20

Supercritical Systems

- Corrosion in Supercritical Systems.....A17

Top-of-the-Line Corrosion

- Top-of-the-Line CorrosionA19

Water and Wastewater

- Industrial Water Treatment: Trends, Challenges, and Solutions (Day 1)A19
- Industrial Water Treatment: Trends, Challenges, and Solutions (Day 2)A20

T

Technical Committee Information

- General Technical Committee Information.....A22

Top-of-the-Line Corrosion

- Symposia, Technical
- Top-of-the-Line CorrosionA19

Transportation

Forums

- NACE Transportation Structures Forum.....A15

Meetings, Technical Committees

- Coating Thickness Measurement, Methods, and Recording—Specific to the Railcar Industry.....A27
- Guidelines for Data Collection and Analysis of Railroad Tank Car Interior Coating/Lining Condition.....A27
- Guidelines for Qualifying Personnel as Abrasive Blasters and Coating and Lining Applicators in the Rail IndustryA27
- Land Transportation: Information Exchange on Corrosion and Coating-Related IssuesA27
- Maintenance Overcoating of Railcar Exteriors.....A27
- Railcars: Coating Application on Exterior Surfaces of Steel Railcars..A27
- Review and Revise or Reaffirm as Necessary NACE SP0295-2008A27
- Review and Revise or Reaffirm as Necessary NACE SP0386-2007A27
- Review and Revise or Reaffirm NACE SP0302-2007A27
- Revision of NACE SP0592 (formerly RP0592).....A27
- Surface Preparation by Encapsulated Blast Media for Repair of Existing Coatings on RailcarsA27
- Transportation, LandA27

W

Water and Wastewater

Forums

- Water Forum: Innovations and Advances in the Water IndustryA16

Meetings, Technical Committees

- Biocide Application/MisapplicationA24
- Boiler Waterside Failure AnalysisA24
- Building Fire Protection Systems: Corrosion and Deposit ControlA24
- Cooling Water Equipment, Initial Conditioning.....A24
- Cost of Water and Steam System Corrosion in the Chemical Processing and Petroleum Refining IndustriesA24
- Fire Protection SystemsA24
- Practical Applications of Water Treatment in Industrial and Commercial Systems.....A24
- Recovery and Repassivation After Low pH Excursions in Open Recirculating Cooling Water SystemsA24
- Review and Revise or Reaffirm NACE Publication 46107A24
- Review and Revise or Reaffirm SP0590-2015A24
- Water Treatment, Physical Process: Guidelines for Testing.....A24

Symposia, Technical

- Industrial Water Treatment: Trends, Challenges, and Solutions (Day 1)A19
- Industrial Water Treatment: Trends, Challenges, and Solutions (Day 2)A20

Workshops

- Engaging Women in Leadership Workshop.....A16

Advertiser Page No.

ALS Oil & Gas , Bellville, Texas.....	A47
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Dairyland Electrical Industries , Stoughton, Wisconsin.....	A58
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Dampney Co., Inc. , Everett, Massachusetts.....	A66
Tel: 1 800-537-7023, Web site: thurmalox.com	
DeFelsko Corp. , Ogdensburg, New York.....	A3, A57
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Enduro Pipeline Services, Inc. , Tulsa, Oklahoma.....	A59
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Tel: +1 956-630-3500, Web site: galvotec.com	
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Tel: +1 832-243-9300, Web site: garnetsales.com	
GMC Electrical, Inc. , Ontario, California.....	A64
Tel: +1 909-947-6016, Web site: gmcelectrical.net	
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Industrial Insulation Group, LLC , Brunswick, Georgia	A69
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Advertiser Page No.

LONZA , Allendale, New Jersey.....	A71
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Loresco International , Hattiesburg, Mississippi.....	A73
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Tel: 1 888-9PPGPMC, Web site: ppgpmc.com/northamerica	
ROXUL® TECHNICAL INSULATION , Ontario, Canada.....	A83
Tel: 1 800-265-6878, Web site: roxul.com	
Sandvik Materials Technology , Sandviken, Sweden	A85
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Tel: +1 909-890-0700, Web site: tinker-razor.com	
ULC Robotics, Inc. , Hauppauge, New York.....	A87
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Coating Inspector Program (CIP).....	A20
CORROSION 2016 Engaging Women in Leadership Event Invitation.....	A9
CORROSION 2016 Northern Lights & Bites Event Invitation	A34
CORROSION 2016 Thank You to Our 2016 Sponsors.....	A41
NACE Coatings Inspector's Logbook, 5th Edition	A15
NACE Corrosion Risk Management Conference	A43
NACE Nuclear Power Plant Coatings Symposium	A38
New Books at NACE.....	A16
Student Events	A29
Thank You to Our Diamond Corporate Members.....	A91
The 10th Element Oilfield Engineering.....	A28

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