



NACE WESTERN AREA CONFERENCE 2018

FINAL
PROGRAM

November 27-29, 2018 | Seattle, WA

Final Program Sponsored by

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Schedule of Events

Day	Event	Time
Monday, November 26	Registration	Noon – 5 p.m.
	Exhibitor Set-up	Noon – 5 p.m.
Tuesday, November 27	Registration	7:30 a.m. – 5 p.m.
	Program	8 a.m. – 5:30 p.m.
	Exhibit Hall Hours	8 a.m. – 7 p.m.
	Welcome Reception	5 – 7 p.m.
Wednesday, November 28	Registration	7:30 a.m. – 5 p.m.
	Program	8 a.m. – 5:30 p.m.
	Exhibit Hall Hours	8 a.m. – 6 p.m.
	Happy Hour Reception	5 – 6 p.m.
	Awards Dinner	6:30 – 9:30 p.m.
Thursday, November 29	Registration	7:30 a.m. – Noon
	Program	8 a.m. – Noon
	Western Area BOT Meeting	Noon – 5 p.m.
Friday, November 30	Strategic Planning Meeting	8 a.m. – 1 p.m.

Conference Committee

Position	Name	Company
Conference Chair	Ryan Tinnea	Tinnea & Associates, LLC
Vice Chair	Logan Swanson	MESA Products, Inc.
Education Chair	Daniel Hamilton	Cascade Natural Gas Corporation
Exhibits Co-Chairs	Alex Fussell	RH2 Engineering
	Kim Karmil	MESA Products, Inc.
Sponsorships Chair	Jake Sowders	Farwest Corrosion Control Company
Technical Program Committee	Patrick Clark	Cascade Natural Gas Corporation
	Stuart Ell	Corrosion Mitigation
	Philip Goodwin	Norton Corrosion Limited
	Madeline Lee	Tinnea & Associates, LLC
	Daniel Powell, FNACE	Powell Corrosion Consulting

Welcome to the 2018 Western Area Conference!

The Puget Sound Section is excited to host the premier corrosion conference for the western United States. As many of you are already aware, the greater Puget Sound area is home to one of the most diverse corrosion communities in the world including the water, wastewater, transportation, and gas services required for a large metropolitan area; one of the country's largest Navy bases; and thriving aerospace and shipping industries. In fact one doesn't have to go far to see the work that goes into addressing corrosion in the northwest – just look at the coating systems on one of Seattle's top tourist attractions... the Washington State ferries!



Stemming from this diversity is a corrosion industry that is experienced and knowledgeable in a variety of corrosion fields and looking to provide attendees with this specialized knowledge. Presentations will address a range of topics including energy production and conveyance, coating and lining systems, corrosion monitoring and coupon technology, corrosion in water and wastewater facilities, marine corrosion, metallizing, and corrosion in reinforced concrete structures.

The conference will be held at the Sheraton Grand Seattle Hotel in downtown Seattle. The hotel is immediately adjacent to some of Seattle's best shopping (including the original Nordstrom store) and dining (including several craft breweries and world-class seafood). A short walk away is Seattle's famous Pike Place Market and waterfront. From Jimi Hendrix to Heart to Nirvana to Macklemore, the music scene in Seattle is always outstanding and just a few blocks from the hotel.

I look forward to seeing all of you at this year's Western Area Conference!

Sincerely,
Ryan Tinnea
Conference Chair
2018 Western Area Conference

OFFICIAL MEDIA PARTNERS



Special Events

Luncheon Keynote Speaker

Tuesday, November 27

11:30 a.m. – 1 p.m.

The Western Area Conference 2018 is pleased to have Jeffrey L. Didas as this year's Western Area Conference luncheon keynote speaker. Mr. Didas is a senior corrosion engineer with Matcor, Inc. and the current 2018-2019 NACE International president. He has been a member of NACE for over 40 years and served on the NACE Board as Treasurer 2009 to 2013. Didas has been active within the technical committee community since the late '90s and holds several NACE certifications – corrosion specialist, cathodic protection specialist and certified coating inspector – to name a few. He has published many conference papers and presented oral presentations at many area conferences and short courses. He has received the NACE Distinguished Service Award (2001) and NACE R.A. Brannon Award (2014) in addition to the AUCSC General Chairman Plaque (2005) and Colonel Cox Award (2010). Mr. Didas earned his ASEE in industrial electronics technology degree from Springfield Technical Community College (Springfield MA) and BSET in electrical/ electronic engineering technology degree from Thomas A. Edison State College (Trenton NJ).



Awards Dinner at the Seattle Aquarium

Wednesday, November 28

6:30– 9:30 p.m.

The Seattle Aquarium is the ninth largest aquarium in the U.S. and one of the top visitor attractions in the Puget Sound region. Join us for an enchanting evening among the aquarium sites as we present the NACE Western Area awards.

A.I. (Sandy) Williamson, P.Eng., will be the special guest speaker this evening. Mr. Williamson is the president of Williamson Integrity Services and former NACE International president (2016-2017). Mr. Williamson has been a member of NACE for over 38 years and is currently serving as the Technical Program Co-Chair for the 2019 Northern Area conference to be held in Calgary.

Awards given out by the NACE Western Area during the dinner will include the Western Area Engineer of the Year – Paul Sedlet, Richard F. Stratfull Service Award – Billy Campbell, and the Outstanding Company Award – San Francisco Public Utility Commission. The Theodore D. Harrington Scholarship will also be presented, which provides funding for courses related to the field of corrosion control.

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Welcome Reception

Tuesday, November 27 from 5 – 7 p.m. Exhibit Hall

Happy Hour Reception

Wednesday, November 28 from 5 – 6 p.m. Exhibit Hall

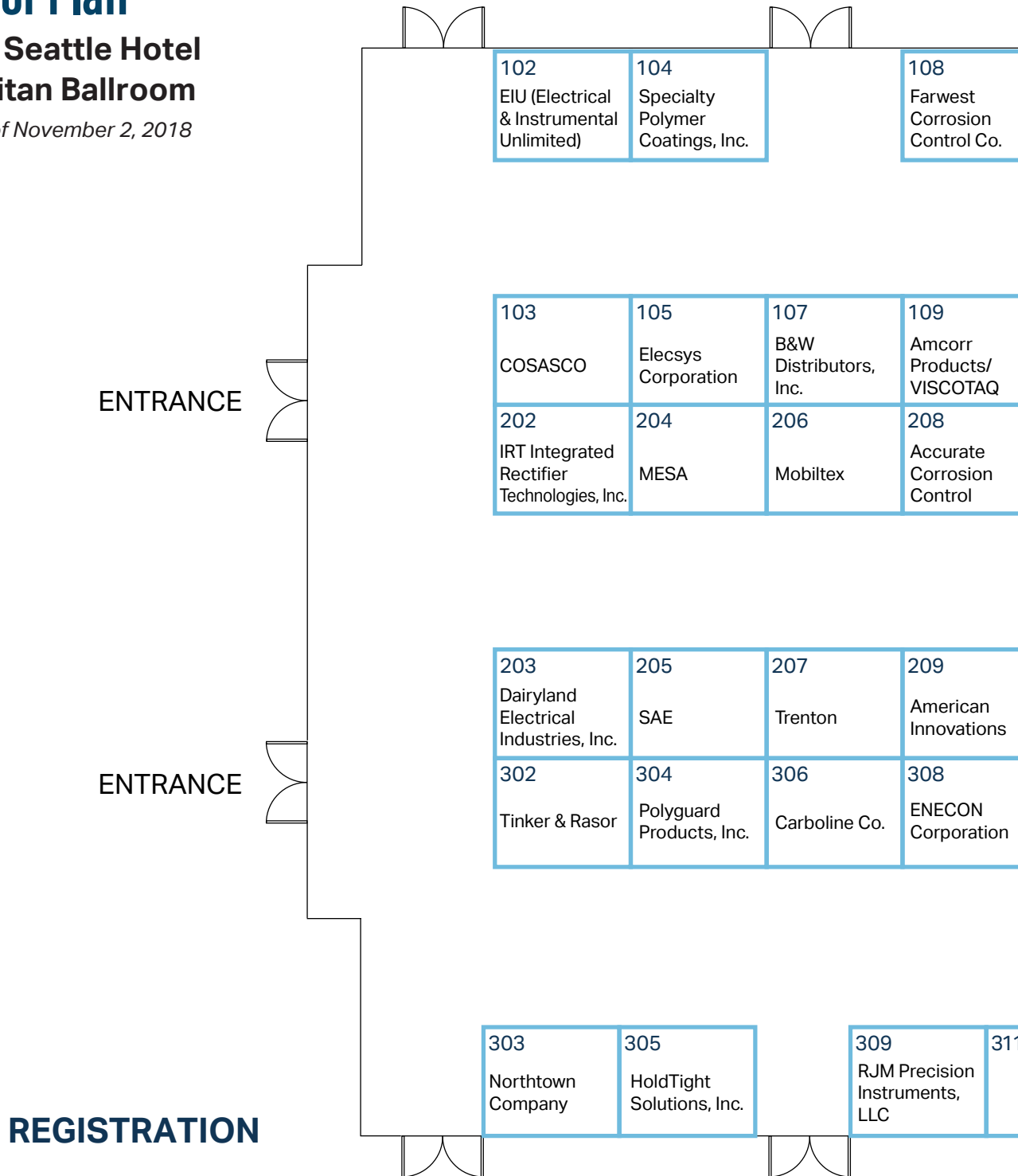
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2018 Floor Plan

Sheraton Seattle Hotel Metropolitan Ballroom

**Floorplan as of November 2, 2018*



110 Raven Lining Systems	112 King Innovations		116 International Zinc Association	118 Alisto Engineering Group	
111 FACS - Forensic Analytical Consulting Service, Inc.	113 Seaguard International	115 MATCOR	117 OmniMetrix	119 Energy Economics, Inc. (EEI)	121 Canusa CPS
210 Seal for Life	212 Denso North America	214 Advance Products & Systems	216 National Corrosion	218 Instrument Technology Corporation	220 Jennings Anodes USA
211 Mobile Pipe Lining & Coating, Inc.	213 Corrpro	215 Tinnea & Associates	217 Protection Engineering	219 VisiPipe, LLC	221 POND
310 Borin Manufacturing, Inc.	312 GMA Garnet (USA) Corp.	314 Glas Mesh Company	316 RigUp	318 Coffman Engineers	320 Kordata
ABRIOX	313 Mears Group, Inc.	317 LAMONS		319	

Exhibitors/Booth Numbers ● 2018 Sponsors

*Exhibitors as of
November 2, 2018*

- **ABRIOX** Booth 311
- **Accurate Corrosion Control** Booth 208
- Advance Products & Systems** Booth 214
- Alisto Engineering Group** Booth 118
- American Innovations** Booth 209
- Amcorr Products/VISCOTAQ** Booth 109
- **Borin Manufacturing, Inc.** Booth 310
- B&W Distributors, Inc.** Booth 107
- Canusa CPS** Booth 121
- Carboline Co.** Booth 306
- Coffman Engineers** Booth 318
- Corrpro** Booth 213
- COSASCO** Booth 103
- Dairyland Electrical Industries, Inc.** Booth 203
- Denso North America** Booth 212
- Elecsys Corporation** Booth 105
- EIU (Electrical & Instrumental Unlimited)** Booth 102
- ENECON Corporation** Booth 308
- Energy Economics, Inc. (EEI)** Booth 119
- Farwest Corrosion Control Co.** Booth 108
- FACS - Forensic Analytical Consulting Service, Inc.** Booth 111
- **Glas Mesh Company** Booth 314
- GMA Garnet (USA) Corp.** Booth 312
- **HoldTight Solutions, Inc.** Booth 305
- International Zinc Association** Booth 116
- Instrument Technology Corporation** Booth 218
- **IRT Integrated Rectifier Technologies, Inc.** Booth 202
- Jennings Anodes USA** Booth 220
- King Innovations** Booth 112
- Kordata** Booth 320
- LAMONS** Booth 317
- MATCOR** Booth 115
- Mears Group, Inc.** Booth 313
- **MESA** Booth 204
- Mobile Pipe Lining & Coating, Inc.** Booth 211
- Mobiltex** Booth 206
- National Corrosion** Booth 216
- **Northtown Company** Booth 303
- OmniMetrix** Booth 117
- Polyguard Products, Inc.** Booth 304
- POND** Booth 221
- Protection Engineering** Booth 217
- Raven Lining Systems** Booth 110
- RigUp** Booth 316
- RJM Precision Instruments, LLC** Booth 309
- SAE** Booth 205
- Seaguard International** Booth 113
- Seal for Life** Booth 210
- Specialty Polymer Coatings, Inc.** Booth 104
- Tinker & Razor** Booth 302
- **Tinnea & Associates** Booth 215
- **Trenton** Booth 207
- VisiPipe, LLC** Booth 219

Technical Program

MONDAY, NOVEMBER 26		
noon - 5 p.m.	Registration - Foyer	
noon - 5 p.m.	Exhibitor Set up - Exhibit Hall	
TUESDAY, NOVEMBER 27		
7:30 a.m. - 5 p.m.	Registration - Foyer	
8 a.m. - 6:30 p.m.	Exhibitor Hall Open	
	Corrosion Control in the Oil, Gas, and Energy Generation industries Track - Issaquah Room	Misc. Track - Ravenna Room
8 - 8:30 a.m.	Managing and Controlling Black Powder within Crude Oil and Natural Gas Systems Presented by Daniel Powell	Concrete Short Course Presented by Jack Tinnea, Tinnea & Associates
8:30 - 9 a.m.	Trouble Shooting in a Distribution System Presented by Patrick Clark, Cascade Natural Gas	
9 - 9:30 a.m.	Well Casing Cathodic Protection – Design Issues, lessons Learned and a Case History Presented by Jeff Didas, NACE International President	
9:30 - 10 a.m.	Break - Exhibit Hall	
10 - 10:30 a.m.	Development of a Concentrated Corrosion Inhibitor for Alaska Presented by Jason Moses, Baker Hughes a GE Co.	Concrete Short Course (Cont.) Presented by Jack Tinnea, Tinnea & Associates
10:30 - 11 a.m.	Advanced Characterization of Complex Corrosion with Ultra High Resolution Magnetic Flux Leakage (MFL) Technology Presented by Neil Pain, ROSEN USA	
11 - 11:30 a.m.	AC Mitigation Design Along the Front Range Presented by Ryan Buchs, EN Engineering, LLC	
11:30 a.m. - 1 p.m.	Lunch Keynote - Cirrus Ballroom Presented by Jeff Didas, NACE International President	
1 - 1:30 p.m.	THPS Functionality as a Chemical Chelant Presented by Daniel Powell	Coating Inspection Short Course Presented by Billy Campbell, BCTS
1:30 - 2 p.m.	Changing Minsets in a Mature Industry Presented by Ken Rossy, HoldTight Solutions, Inc.	
2 - 2:30 p.m.	Corrosion in Underground Metal/Nonmetal Mines Presented by Amy Chambers, NIOSH/Spokane Mining Research Division	
2:30 - 3 p.m.	Corrosion Mitigation on Coal Power Plant Presented by Dadi Soemantri, OG&E Energy	
3 - 3:30 p.m.	Afternoon Break - Exhibit Hall	
3:30 - 4 p.m.	Application of Coupons to Correct the Effect of AC Mitigation on Potential Survey Presented by Sasan Hosein, Pond	Localized Corrosion in Wastewater Treatment Facilities Presented by Madeline Lee, Tinnea & Associates
4 - 4:30 p.m.	Optimization Corrosion Inhibitor for Precut Column Used Combination Neutralizing Amine and Various Filming Amine Presented by Agnesya Gustianthy, PT Pertamina (Persero)	Cathodic Protection of Two Alaskan Bridges Presented by Ryan Tinnea, Tinnea & Associates
4:30 - 5 p.m.	Studies on High-Temperature Corrosion Behavior for Comparing Friction Stir Processed Grade A1 Boiler Steel with Base Steel Presented by Supreet Singh, Assistant Professor Department of Mechanical Engineering, Chandigarh University	Acceptable Strippers in the Industrial World Presented by Sylvia Fontes, Forensic Analytical Consulting Services
5 - 5:30 p.m.	Corrosion Under Insulation in the Pipeline Industry. Are You Sure You Are Doing Enough? A Case Study Presented by Bernardo Cuervo, G2 Integrated Solutions	Why Inspect Coating Application of Fusion Bonded Epoxy? Presented by Sean Browning, Pond
5 - 7 p.m.	Welcome Reception - Exhibit Hall	

WEDNESDAY, NOVEMBER 28		
7:30 a.m. - 5 p.m.	Registration - Foyer	
8 a.m. - 5 p.m.	Exhibitor Hall Open	
	Corrosion in Marine Environments Track - Issaquah Room	Misc. Track - Ravenna Room
8 - 8:30 a.m.	Remotely Operated Underwater Vehicle Inspections on Submerged Wastewater Outfalls Presented by Madeline Lee, Tinnea & Associates, LLC	Cathodic Protection Short Course Presented by Jeremy Hailey, Northwest Corrosion Engineering
8:30 - 9 a.m.	High-Accuracy Corrosion Growth Assessment Presented by Ryan Sikes, NDT Global, LLC	
9 - 9:30 a.m.	Corrosion in Marine Environments Presented by Ian Coleman, Tinnea & Associates, LLC	
9:30 - 10 a.m.	Break - Exhibit Hall	
	Monitoring, Modeling, and Coupon Technology Track	
10 - 10:30 a.m.	Current State of Technology for Monitoring AC Interference for Safety and Corrosion Prevention Presented by Jamey Hilleary, Elecsys Corporation	Cathodic Protection Short Course (Cont.) Presented by Jeremy Hailey, Northwest Corrosion Engineering
10:30 - 11 a.m.	Statistical Analysis of DFT Readings for In Process Quality Control Presented by Andrew Sterling, Mobile Pipe Lining and Coating	
11 - 11:30 a.m.	7-M Methodology for Determination of Optimum Corrosion Inhibitor Dosage for Control of Uniform Corrosion for Crude Oil Transmission Pipelines Presented by Joseph Emmanuel, Joiegloe Engineering Services	
11:30 a.m. - 1 p.m.	Lunch (On your own)	
1 - 1:30 p.m.	Controlling Corrosion: Monitoring and Measuring the Cause and Effect Presented by Kathleen Rosario, Cosasco	NACE Institute Exam Development Process Presented by Michelle Simpson, NACE International Are you interested in shaping the future of NACE certifications or simply learning more about how NACE certification are developed? If so, you are invited to attend this session, held by the NACE International Institute exam development team.
1:30 - 2 p.m.	Tracking Corrosion Rate Using ER Probes and Remote Monitor Web-Based Real-Time Data Interface Presented by Jamey Hilleary, Elecsys Corporation	
	Corrosion Considerations for Water and Wastewater Assets Track	
2 - 2:30 p.m.	Sharing the Street with Electric Rail - Utility Relocation, Design, Maintenance Presented by Stuart Greenberger, RH2 Engineering	
2:30 - 3 p.m.	Corrosion Protection for 60" Ductile Iron Fittings for Ala Moana Force Main Presented by Andrew Sterling, Mobile Pipe Lining and Coating	
3 - 3:30 p.m.	Break - Exhibit Hall	
	Coatings, Linings, and Metallizing Track	Misc. Track
3:30 - 4 p.m.	Duplex Zinc Coatings for Corrosion Protection of Marine Structures Presented by Martin Gagne, Zelixir, Inc.	Introduction to AC Corrosion & Mitigation Techniques Presented by Caleb L'Eplattenier, Accurate Corrosion Control, Inc.
4 - 4:30 p.m.	Sacrificial Composite ARO's for Optimal Pipeline Coating Protection Presented by Tammy Bomia, NRI Neptune Research, Inc.	AC Pipe Assessment and Replacement Presented by Darby Howard, JDH Corrosion Consultants, Inc.
4:30 - 5 p.m.		IR Consideration in Pipe-to-Soil Potentials Presented by Nick Terry, Accurate Corrosion Control, Inc.
5 - 6 p.m.	Happy Hour Reception - Exhibit Hall	
6:30 - 9:30 p.m.	Awards Dinner - Keynote Speaker: Sandy Williamson, Williamson Integrity Services Seattle Aquarium (<i>Transportation Provided - Buses depart at 6:15 p.m.</i>)	
THURSDAY, NOVEMBER 29		
7:30 a.m. - 5 p.m.	Registration - Foyer	
8 a.m. - noon	Exhibit Hall Open	
8 - 10 a.m.	Basic Corrosion Short Course Presented by Daniel Powell, FNACE, Powell Corrosion Consulting - <i>Issaquah Room</i>	
10 - 10:30 a.m.	Break - Exhibit Hall	
10:30 a.m. - noon	Basic Corrosion Short Course Presented by Daniel Powell, FNACE, Powell Corrosion Consulting - <i>Issaquah Room</i>	
noon - 5 p.m.	Western Area Board of Trustees Meeting - Leschi Room (Open to all NACE members)	
FRIDAY, NOVEMBER 30		
8 a.m. - 1 p.m.	Strategic Planning Meeting - Issaquah Room	

Code of Ethics

THE FUNDAMENTAL PRINCIPLES

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

THE FUNDAMENTAL CANONS

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

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

Anti-Harassment Policy

NACE is committed to providing an environment free of sexual harassment (which includes harassment based on gender, pregnancy, childbirth, or related medical conditions), as well as harassment based on such factors as race, color, religion, national origin, ancestry, age, physical disability, mental disability, medical condition, marital status, sexual orientation, gender identity, gender expression, workers' compensation leave, veteran status, or any other condition or characteristic protected by law.

We expect all participants at CORROSION to abide by this Anti-Harassment Policy in all venues at CORROSION, including ancillary events and official and unofficial social gatherings.

- Exercise consideration and respect in your speech and actions.
- Refrain from demeaning, discriminatory, or harassing behavior and speech.
- Be mindful of your surroundings and of your fellow participants.
- Alert NACE staff if you notice harassment.

If you are being harassed, notice that someone else is being harassed, or have any other concerns, please contact Meghan Leyva at +1 361-779-1387 on-site immediately.

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