

# 2025

## ADVANCE PROGRAM



OFFICIAL MEDIA PARTNERS



AMPP—The Global Leaders in Materials Protection and Performance

# Welcome

## MESSAGE FROM THE CHAIRS



On behalf of the AMPP and AMPP Global Center Board of Directors, we are elated to welcome you to the AMPP Annual Conference + Expo 2025 in Nashville, Tennessee! Get ready for a week of cutting-edge technologies, peer-reviewed symposia, workshops, engaging networking events, technical meetings, and much more.

You'll be participating in the industry's largest and most comprehensive event focused on corrosion and materials protection. Learn about the latest global trends, connect with industry leaders and peers from around the world, and get the knowledge you need to advance your career in coatings, cathodic protection, corrosion, materials, asset integrity, nonmetallics, sustainability, and so much more!

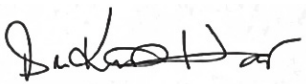
Your AMPP Annual Conference + Expo registration includes:

- Peer-reviewed symposia on a variety of topics such as:
  - Civil infrastructure, including bridges and cathodic protection of reinforced concrete
  - Coatings failure analysis and forensics
  - Contractor insurance, bonding, and risk management
  - Thermal spray and cold spray coatings
  - Passive fire protection
  - Novel surface preparation methods
  - Defense, aerospace, maritime, and naval sector updates
  - Oil and gas, chemical, and process industries technologies
  - Energy transition protection measures for nuclear, hydrogen, and carbon capture systems
  - And much more!
- Hundreds of exhibits from global industry leaders
- Targeted professional development programming and exclusive networking events
- Practical workshops and hands-on experiences

Within this Advance Program, you'll find details on the 2025 conference. We hope you'll enjoy the many symposia and technical workshops planned for this year's event. Whether you're new to the field or a seasoned professional, you'll find technical sessions and networking opportunities designed to help you propel your career.

We look forward to welcoming you to AMPP's Annual Conference + Expo 2025. Please stop by and say hello to AMPP staff on the exhibition floor!

Best regards,



Dr. Kimberly-Joy Harris  
Chair, AMPP Board of Directors



Juan Caballero  
Chair, AMPP Global Center Board  
of Directors

# STELTH<sup>®</sup> MINI

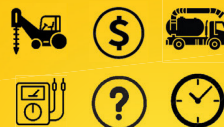
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# General Information

## Location

Music City Center  
201 Rep. John Lewis Way South  
Nashville, TN 37203

## Time Zone

CST—Central Standard Time

## Getting to Nashville

Nashville International Airport (BNA)  
One Terminal Drive  
Nashville, TN 37214

## Visa Application for International Delegates

Any individual traveling from an international location to the AMPP Annual Conference + Expo in Nashville will need to check the U.S. Department of State website ([travel.state.gov](http://travel.state.gov)) to identify their specific country's visa requirements.

Visit [ace.ampp.org/travel](http://ace.ampp.org/travel) for our Letter of Invitation.

## Official Conference Language

The official conference language is English.

## Professional Development Hour (PDH) Stations

Earn PDHs by attending the technical meetings, forums, and symposia at the AMPP Annual Conference + Expo. Print out your personalized PDH certificates at the PDH Station located near Registration. Certificates are based solely on the information provided to AMPP at the time of printing.

Sponsored by:  
**LORESCO®**

## AMPP Certification Hospitality Suite

Davidson Ballroom C2  
Monday - Wednesday  
9 a.m. - 5 p.m.

The Certification Hospitality Suite is a space dedicated to recognizing AMPP's certified community. All active, certified individuals are encouraged to come by to claim a gift, put their feet up, enjoy a beverage and/or snack, and chat with AMPP representatives who will be available to answer questions and verify information around certification.

## AMPP QP Accreditation Hospitality Suite

The QP Accreditation Hospitality Suite is a space for all QP contractors and prospective contractors to meet with the accreditation team and enjoy a beverage and/or snack. Stop by to get your questions answered and to learn about the latest developments in our accreditation program.

## AMPP Bookstore

The AMPP Bookstore will be in Nashville! Stop by to browse through the most extensive collection of publications dedicated to corrosion control and high-performance coatings. You have the option to purchase bestselling and just-released titles onsite. If you prefer not to use valuable luggage space, our Print-On-Demand option will be available at the self-serve kiosk and the book will ship directly to you.

Visit [store.ampp.org](http://store.ampp.org) or contact Customer Support, 1-800-797-6223 or +1 281-228-6223, for more information.

## Corporate Lounge

Davidson Ballrooms A&B  
Sunday – Monday 7:30 a.m. – 5 p.m.  
Tuesday – Wednesday 7:30 a.m. – 5:30 p.m.  
Thursday 7:30 a.m. – 12 p.m.

The Corporate Lounge offers AMPP corporate member representatives — from Affiliate- and Associate-level corporate memberships — specialized services and an oasis for conducting business while attending the conference. Guests can reserve meeting rooms, check emails, or relax between meetings. Learn how to become a corporate member by contacting our membership team at [corporate@ampp.org](mailto:corporate@ampp.org).

## Product Showcase

The Product Showcase is your first look at the industry's cutting-edge technology. Located on the 3rd floor foyer, displays feature the latest innovations and new products from this year's exhibiting companies. Exhibitors interested in participating in this unique display can contact Alina Blanco at [alina.blanco@ampp.org](mailto:alina.blanco@ampp.org) or by phone +1 281-228-6450.

## Convention Center Accessibility

The Music City Center is committed to accommodating the needs of individuals with disabilities. It complies with all federal ADA laws. If you have any special requirements, email a description of your needs to [customersupport@ampp.org](mailto:customersupport@ampp.org) and an AMPP staff member will contact you.

# General Information

## AMPP Conferences Minor Policy

Children under the age of 15 are not permitted in the expo, meetings, or symposia. Children over the age of 15 must be registered as guests and are required to wear a badge at all times while in the convention center.

**Expo Attendance:** Nursing infants will be allowed in the exhibit hall during show hours only and must always be carried in arms or front baby carrier (NO STROLLERS PERMITTED) by a registered AMPP attendee.

Everyone who attends the exhibition must be registered and have a badge. Badges for minors 15 and older are free and available onsite at the registration desk. Minors between 15 and 18 years of age must be accompanied by an adult at all times. Guardians are asked to help maintain a professional, disturbance-free exhibition environment.

**Meetings and Programming:** To provide all AMPP attendees an optimal learning environment, minors and guests are not permitted in technical meetings or the symposia. Those attending these sessions must be registered for the conference and show the appropriate badge.

**Exhibitors:** Exhibitor booth staff must be registered as such and be 15 years of age or older. The nursing infant rule applies to exhibitors. No child under the age of 15 may be in an exhibit booth during set-up, tear-down, or show hours. Anyone in violation of these rules will have their booth closed and will not be provided a refund. STROLLERS AND ROLLING CARTS ARE NOT ALLOWED in the exhibit hall at any time.

Childcare is not available at the convention center; however, your hotel concierge may be able to assist you. Please note that AMPP has no affiliation with these services.

## PREPARING FOR YOUR CERTIFICATION EXAM?

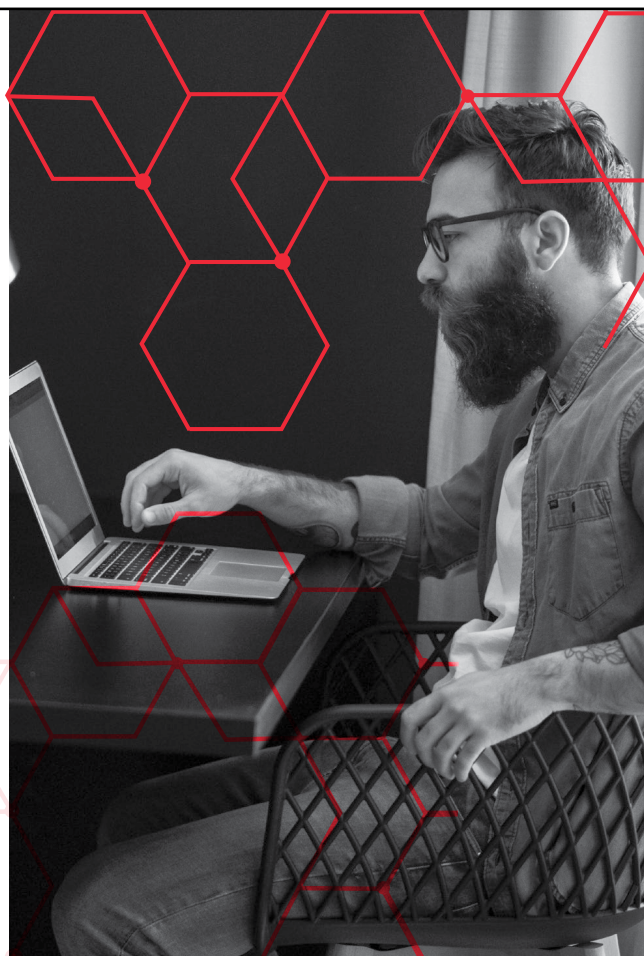
We are now offering practice exams for our most popular certifications!

Take a test run for your certification with one of these new practice exams:

- Coating Inspector Program – Level 1
- Coating Inspector Program – Level 2
- CP1 – Cathodic Protection Tester
- CP2 – Cathodic Protection Technician

Along with Exam Preparation Guides, these practice exams will help you attain certification.

Get started:



# Conference Registration

## Rates

REGISTRATION TYPE	Member Rates (USD)		Nonmember Rates (USD)	
	Advance Before February 3, 2025	Regular	Advance Before February 3, 2025	Regular
<b>Full Conference</b> Includes: <ul style="list-style-type: none"> <li>Digital Conference Proceedings</li> <li>Opening and Exhibit Hall Receptions</li> <li>Tuesday Lunch</li> <li>Wednesday Drink Ticket</li> </ul>	\$1,075	\$1,275	\$1,425	\$1,625
<b>One-Day</b> Includes: <ul style="list-style-type: none"> <li>Opening or Exhibit Hall Receptions*</li> <li>Tuesday Lunch*</li> <li>Wednesday Drink Ticket*</li> </ul> *On applicable days	\$550		\$750	
<b>Two-Day</b> Includes: <ul style="list-style-type: none"> <li>Opening or Exhibit Hall Receptions*</li> <li>Tuesday Lunch*</li> <li>Wednesday Drink Ticket*</li> </ul> *On applicable days	\$695		\$895	
<b>Student Registration*</b> Includes: <ul style="list-style-type: none"> <li>All benefits of the Full Conference Registration</li> <li>Complimentary ticket for Scholarship Awards &amp; Student Networking event</li> </ul> *To qualify for the student rate, you must have a current <b>AMPP Student Membership</b> .	Free	\$100	Free	\$150
<b>Guest</b> Includes access to social activities and exhibit hall only	\$195			
<b>Exhibit Hall Only</b>	\$175			
<b>Exhibit Hall Only Plus</b> Includes: <ul style="list-style-type: none"> <li>Exhibit Hall Receptions*</li> <li>Tuesday Lunch*</li> <li>Wednesday Drink Ticket*</li> </ul> *On applicable days	\$225			
<b>Darrel D. Byerley Memorial Golf Tournament</b>	\$275 Individual Player			
	\$1,100 Corporate Team			
	\$1,350 Corporate Package (Foursome + Pin Flag Sponsorship)			
<b>Honoree Night—Wednesday, April 8</b>	\$95 Individual			
<b>Woman of AMPP Breakfast—Tuesday, April 7</b>	\$35			



# Conference Registration

## AMPP Annual Conference + Expo 2025 Conference Papers

REGISTRATION TYPE	PRICING
Full Registration— Advanced and Regular	Complimentary
Full Exhibitor COMP Registration	
Conference Attendees—One Day, Two Days, and Students	\$299
Booth Attendants	
Exhibit Hall Only	
Not attending AMPP Annual Conference + Expo	

## General Registration Information

Registration is available online from September 1, 2024 through April 10, 2025.

Registration will not be processed without payment. Registration and payment date determine price. Payment must be made in U.S. dollars from a U.S. financial institution. Checks, money orders, or credit card payments are accepted. Invoices will not be issued.

Advance registration rates will be available from September 1, 2024 through February 3, 2025. After February 3, 2025 regular registration rates will apply.

Onsite and Express Pass registration will be in the Nashville Music City Center.

## Ways to Register

Online: [ace.ampp.org](https://ace.ampp.org)

Mail: AMPP, 15835 Park Ten Place, Houston, TX 77084 USA

Fax: +1 281-228-6329

Phone: 1-800-797-6223 (U.S. and Canada) or  
+1 281-228-6223 (worldwide)

## Cancellation and Refund Policies

Paid registrations canceled in writing at least 60 calendar days or more prior to the start of the event will receive a full refund, less a \$100 service fee. Paid registrations canceled in writing 59 to 30 days before the starting date of the event will receive a refund of 50% of the registration fee. No refunds or credit will be issued on cancellation requests received less than 30 days before the event begins. Transfer of registration is permitted one time at a fee of \$100.00 USD.

Check refunds are processed after the conference. There are no refunds on exhibit visitors or networking tickets.

## Guest Tours

A limited number of tours of popular Nashville destinations are available for purchase. A Guest or Conference registration is not required for tour participation. Visit the [ace.ampp.org](https://ace.ampp.org) website for a list of available tours and to register.



# Housing

	HOTEL	S/D RATE (USD)	ADDRESS
1	AC Hotel by Marriott Nashville Downtown	\$329	410 Rep. John Lewis Way S
2	Cambria Hotel Nashville Downtown	\$289	118 8th Ave S
3	Embassy Suites by Hilton Nashville Downtown	\$309	708 Demonbreun St
4	Grand Hyatt Nashville	\$339	1000 Broadway
5	Hilton Garden Inn Nashville Downtown/Convention Center	\$269	305 Korean Veterans Blvd
6	Hilton Nashville Downtown	\$324	121 4th Ave S
7	Holiday Inn & Suites Nashville Downtown/ Convention Center	\$269	415 4th Ave S
8	Omni Nashville Hotel—Headquarters hotel	\$321	250 Rep. John Lewis Way S
9	Residence Inn by Nashville Downtown	\$329	410 Rep. John Lewis Way S
10	Sheraton Grand Nashville	\$329	623 Union St
11	SpringHill Suites by Marriott Nashville Downtown	\$329	410 Rep. John Lewis Way S
12	Westin Nashville	\$298	807 Clark Pl



## Make Hotel Reservations through the AMPP Website

Visit [ace.ampp.org](https://ace.ampp.org) to reserve your room at one of the official conference hotels. You will receive an automatic acknowledgement email from our housing bureau, SPARGO. Acknowledgments will be emailed within six hours of your reservation being processed directly online. If you do not receive an acknowledgment in this time frame, please contact the AMPP Annual Conference + Expo 2025 Housing Bureau at 1-866-470-7778 or +1 571-549-4542 (International); email [ampphousing@spargoinc.com](mailto:ampphousing@spargoinc.com).

Reservations may also be made during the AMPP Annual Conference + Expo 2025 online registration process. The deadline to reserve a room through online registration is March 13, 2025. On or before Thursday, March 13, 2025, you must submit your cancellations or changes online or in writing to the AMPP Housing Center at [AMPPHousing@spargoinc.com](mailto:AMPPHousing@spargoinc.com). A confirmation will be sent to you within five (5) business days after receipt of your written request. If you do not receive this confirmation, please contact the AMPP Housing Center to verify that your change or cancellation request was received. Beginning Wednesday, March 19, 2025, you must call the hotel directly for any changes and/or cancellation. Please do not contact the hotel prior to this date, as the transfer of reservations will not be completed.

### ALERT!

**SPARGO is the ONLY APPROVED HOUSING AGENCY for AMPP Annual Conference + Expo in Nashville**

If you are contacted by anyone other than SPARGO, please note they are not endorsed by AMPP. 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, SPARGO, or call 1-866-470-7778 (U.S. and Canada), +1 571-549-4542 (International).

# Key Dates at a Glance

## SEPTEMBER 1, 2024

Housing opens	We recommend that you select your hotel early to ensure your preferred hotel.
Conference/Expo advance registration opens	Register online, by mail, fax, or phone (see Advance Program's Registration section).

## FEBRUARY 3, 2025

Conference/Expo advance registration closes	After this date, registrations will be processed at the regular rate.
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## MARCH 13, 2025

Housing closes	All reservations, changes, and cancellations must be handled directly by the hotels, not the housing bureau.
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## APRIL 5, 2025

AMPP Annual Conference + Expo 2025 Registration	Onsite registration times are Saturday, April 5, 2 to 5 p.m.; Sunday, April 6, 7:30 a.m. to 6:30 p.m.; Monday, April 7, 7 a.m. to 7:30 p.m.; Tuesday, April 8, 7 a.m. to 5 p.m.; Wednesday, April 9, 7:30 a.m. to 7 p.m.; and Thursday, April 10, 7:30 a.m. to noon.
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## APRIL 10, 2025

Conference/Expo registration, AMPP Store, Exhibit Hall, and AMPP Business Center close at noon.
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## Important Contacts

INFORMATION TYPE	U.S.	INTERNATIONAL	EMAIL
Registration and General Questions	1 800-797-6223	+1 281-228-6223	<a href="mailto:customersupport@ampp.org">customersupport@ampp.org</a>
Housing	1 866-470-7778	+1 571-549-4542	<a href="mailto:AMPPHousing@spargoinc.com">AMPPHousing@spargoinc.com</a>
Membership Services	1 800-797-6223	+1 281-228-6223	<a href="mailto:customersupport@ampp.org">customersupport@ampp.org</a>
AMPP Conferences	+1 281-228-6413	+1 412-288-6032	<a href="mailto:sherry.mccaskey@ampp.org">sherry.mccaskey@ampp.org</a>
AMPP Exhibits	+1 412-288-6036	+1 412-288-6036	<a href="mailto:sam.barill@ampp.org">sam.barill@ampp.org</a>
AMPP Sponsorships	+1 281-228-6299	+1 281-228-6299	<a href="mailto:sales@ampp.org">sales@ampp.org</a>
Conference Symposia Papers	+1 281-228-6218	+1 281-228-6423	<a href="mailto:papers@ampp.org">papers@ampp.org</a>
Student/Young Professional Activities	+1 281-228-6205	+1 281-228-6205	<a href="mailto:emerg@ampp.org">emerg@ampp.org</a>



# AMPP Standards & Technical Committees

## Join Standards Committees and Make an Impact!

There's no better way to influence and engage with the industry than by participating in standards development. Don't miss the opportunity to explore the AMPP Standards Committees (SCs) and U.S. TAGs to ISO meetings at the AMPP Annual Conference + Expo 2025.

Prepare to actively participate by joining a standards committee at [ampp.org/standards](https://ampp.org/standards).

Here's what you can gain from attending standards committee meetings:

- Shape the documents that affect your work
- Track standards projects that matter to you and your customers
- Network with other professionals who share your interests
- Get acquainted with the process through our Training and Informational Meeting on Standards Committees

**Be part of the conversation and drive change in the industry!**

## Discover AMPP Technical Communities of Interest at the Conference!

Join us at the AMPP Annual Conference + Expo 2025 to engage with AMPP Technical Communities of Interest (TCIs). These communities provide a unique opportunity to:

- Dive deeper into topics that impact your work
- Network with other professionals who share your interests
- Discuss current issues with global subject matter experts

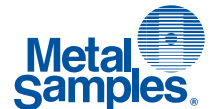
TCIs are specialized groups of professionals with shared technical interests. Each meeting features presentations and discussions focused on key topics relevant to the community. All full conference registrants are welcome to attend.

**For the latest updates on meeting times and locations, visit [ace.ampp.org](https://ace.ampp.org).**





# THANK YOU TO OUR SPONSORS



\*As of September 15, 2024

Visit [ace.ampp.org](https://ace.ampp.org) or contact [sales@ampp.org](mailto:sales@ampp.org) for sponsorship opportunities.

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

The 2025 AMPP Annual Conference + Expo technical program is still in development. The following is a snapshot of the program as of the publication date of this advance program. In an effort to provide greater value and an improved user experience, we have been soliciting content and building this program around the three core markets AMPP serves: Civil, Infrastructure, and Defense (Bridges, Marine, Defense, Water and Wastewater, etc.); Energy (Oil & Gas, Chemical & Process, Energy Transition, Carbon Capture, etc.); and Emerging Technologies. With this in mind, our 2025 advance program may look and feel a bit different from previous years. However, we at AMPP still trust that the details and information provided in this advance program will provide value prior to attending the conference.



## Civil Infrastructure

### BRIDGES

#### Bridge Preservation & Asset Management

This session addresses the latest advancements and strategies in maintaining and managing corrosion and materials issues for bridge infrastructure. This session will cover corrosion and coatings considerations for bridge inspection, preservation methods, and the implementation of asset management systems designed to extend the lifespan and enhance the performance of bridge structures.

- Rail

Rail Industry Coatings and Corrosion—This session focuses on advancements aimed at improving the durability, safety, and environmental impact of coatings and linings used in rail-car maintenance and rail infrastructure. This session will cover innovations in protective coatings designed to withstand harsh operating conditions, prevent corrosion, and enhance structural integrity.

### WATER AND WASTEWATER

#### Corrosion in the Water and Wastewater Industries

Corrosion of water and wastewater facilities (pipelines and treatment equipment) is a significant and growing problem for water and wastewater utilities. This symposium will focus on how to identify corrosion on pipelines and equipment, slow or stop existing corrosion, and how to prevent corrosion on new facilities.

- Corrosion performance of the new ASTM S30416 (APM316A) stainless steel grade in water networks

### CONCRETE INFRASTRUCTURE

#### Reinforced Concrete Structures: Coatings and Concrete

Corrosion of steel rebar causes structural degradation of reinforced concrete systems in the civil infrastructure. Field practice and research continue to better understand the problem and provide effective practical solutions. This session is intended to provide a forum for practitioners and researchers in the technical areas of reinforced concrete and coatings to disseminate information and provide practical solutions for corrosion of the aging civil infrastructure.

- Employing Enhanced Plastisol Coating on Concrete Reinforcement

#### Cathodic Protection of Reinforced Concrete

This sessions delves into the advanced techniques and technologies employed to safeguard reinforced concrete structures from corrosion. This session will cover the principles of cathodic protection, including the methods of installation, monitoring, and maintenance of cathodic protection systems.

## Coatings & Surface Preparation

### CONTRACTOR BUSINESS ISSUES

#### Hazardous Coatings Environmental, Health, Safety and Regulatory

This session will address critical issues surrounding the use and management of hazardous coatings. This session will provide an in-depth look at the environmental and health impacts of hazardous coatings, along with the latest safety protocols and regulatory requirements aimed at mitigating these risks. Attendees will gain

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

knowledge on best practices for handling, applying, and disposing of hazardous coatings, as well as strategies for compliance with current regulations.

- *Building an OSHA Respirator Program*

## Contractor Insurance, Bonding, & Risk Management

This session highlights developments and innovations in risk management solutions tailored for contractors. It will explore new insurance products, bonding options, risk assessment tools, and strategies for managing the relationship between contractor, insurer, and bonding company. Attendees will learn about recent changes in regulatory frameworks, emerging trends, policy design, EMR, and claims management.

## Workforce Development

This session focuses on trends and strategies in building a skilled and diverse workforce. It will cover approaches to workforce training, education, and career development designed to meet the evolving needs of contractors. It will explore the impact of demographic shifts, including aging populations, diversity, and changing workforce expectations, on talent acquisition and retention in the skilled trades.

## COATINGS INSPECTION

### Advancements in Inspection Instruments and Techniques

This session explores the latest innovations in the tools and methodologies used for inspection of protective coatings application. This session will present cutting-edge inspection instruments, such as advanced thickness gauges, adhesion testers, non-contact instruments, and digital imaging systems, along with their practical applications in various industries. Attendees will learn about new techniques for detecting coating defects, ensuring compliance with industry standards, and enhancing overall inspection accuracy and efficiencies, as well as strategies for compliance with current regulations.

- *Predicting the anti-corrosive performance of zinc rich epoxy primers by Electrochemical Impedance Spectroscopy*
- *Improvements in the deflection angle allowed for pipe, with an operating temperature below 50 °C, coated with non-VOC liquid resin, at a lower thickness than recommended for high temperature.*
- *Inspection Reporting - Good Practices and Minimum Requirements*

## COATINGS FAILURE ANALYSIS & FORENSICS

### Coatings Failures

This symposium features technical papers on coating failures on a variety of substrates, structures, and in a variety of industries for the purpose of advancing the knowledge and awareness of users, owners, contractors, manufacturers, technical professionals, etc.

Example topics include determination of root causes and modes of coating failures, detailing of reasons and mechanisms affecting the coatings failure, investigative approach and stages of analysis, field methods for testing and sampling, and laboratory analyses and methodologies. Other examples include case studies concerning paint and coating failures related to surface preparation, application, formulation, mis-specified materials and procedures, incompatibility, processing, upset conditions, and inadequate specifications. Assignment of remedial recommendations and lessons learned are also of interest.

- *Study of Service Status and Failure Causes of Anti-Corrosion Coatings on Top Plate of Large Crude Oil Storage Tanks*
- *Microcracking of Fusion Bonded Epoxy a rare phenomenon*

## COATINGS MATERIALS

### Designing Coatings for Reduced Environmental Impact and Enhanced Protection

The symposium explores the forefront of materials and strategies for corrosion protection, refining testing methodologies, and promoting reduced environmental impact in various industries utilizing high-performance coating systems. This session invites discussion of new materials as well as the use of conventional materials in new ways to achieve high performance sustainably. Novel methodologies for assessing coating barrier properties, including accelerated corrosion testing, real-world exposure studies, or computational modeling techniques are also encouraged. Furthermore, the symposium underscores the importance of coating technologies, highlighting eco-friendly coating systems and renewable resources to minimize environmental impact throughout the product life cycle. These technical papers delve into the evolving landscape of testing methodologies, emphasizing accelerated corrosion testing, real-world simulation, and predictive modeling to expedite product development and ensure long-term performance reliability.

### Advanced Protective Coating Technology

This symposium is looking for papers in the following areas: advanced fastener coatings, advanced salt measurement techniques, advanced salt decontamination chemicals, offshore windmill coating (>25-year service life), offshore deck coating, subsea coating, new pipeline coating development, CUI coating, thermal insulative coating, cathodic disbondment mechanism, coating blister mechanism.

- *Impact of Free Fatty Acids, Water Content, and Temperature on the Chemical Resistance of Coatings in Biofuel Precursor Storage*
- *Maximizing the Performance of Liquid-Applied Epoxy Pipeline Coatings by Optimizing Controllable Parameters. Part 1: Surface Preparation*
- *Maximizing the Performance of Liquid-Applied Epoxy Pipeline Coatings by Optimizing Controllable Parameters. Part 2: Coating Application*
- *High temperature performance of phenolic/ novolac epoxies - thermal degradation and barrier properties*

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

- Evaluation of Various IMM/ IC Coating Systems in Terms of CUI Protection
- Ultra-Durable Anti-Corrosion Coating System for Steel Infrastructure in Extreme Environments
- Overcoat Strategies: Integrating the Right Coating Selections into Maintenance Programs for Prolonged Asset Life Cycles

## Thermal Spray

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

- Thermal Spray and Cold Spray Coatings

## Fire Protection

Passive Fire Protection—This session focuses on the latest advancements and applications of cementitious fire proofing and intumescent coatings. This session will explore how these materials are used to enhance the fire resistance of buildings and structures.

## Surface Preparation

Novel Surface Preparation Methods—This session will cover novel surface preparation methods and techniques including laser cleaning, plasma cleaning, pulsed water jetting, induction cleaning, and non-profiling surface preparation. Attendees will gain insights into how these methods impact surface adhesion, cleanliness, and durability for subsequent coatings or treatments.

Surface Preparation—This symposium will feature technical papers on surface preparation methods, including abrasives, surface contamination, surface cleanliness, etc. We know that a huge factor of coating failure has to do with surface preparation.

- The Effect of Surface Preparation on Coating Performance for Pre-Rusted Surfaces
- Comparison of Surface Profile Measurement Methods

## Linings and Internal Coatings

Linings and Internal Coatings—This session will cover the selection, application, and performance of linings and internal protective coatings designed to shield infrastructure and equipment from corrosion, abrasion, and chemical attack. Papers will discuss innovative coating materials tailored for diverse environments such as storage tanks and processing vessels. Papers may include applicable real-world case studies.

- Corrosion Behavior of Hydrophobic Coatings in Aqueous CO<sub>2</sub> Environments
- Coating Concrete with High-Performance Protective Linings: Understanding mechanisms of outgassing-induced film defects

## Architectural and Commercial

Architectural and Commercial Coatings—This session on architectural and commercial coatings will cover sustainable solutions and performance enhancements for both durability and design. Papers will provide information on product developments, quality standards for commercial and architectural painting projects, green or sustainable coatings technologies, commercial and architectural projects for the Department of Defense agencies, and laboratory accreditation programs through MPI and ISO 17025. The papers will also explore real-world case studies in various commercial and architectural projects.

## Defense, Aerospace, & Maritime

### AEROSPACE

#### Aerospace Corrosion Modeling and Environmental Severity

The session will include topics related to corrosion modeling and model-based systems engineering for the aerospace defense industry. Papers will identify the state of the art in corrosion modeling, simulation, and data analytics and discuss the current gaps and needs in data and methodology.

### DEFENSE

#### Military Coatings and Corrosion

Aerospace Coating Aging Method Investigation—Updates on developments in corrosion control for the military.



# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## MARITIME AND NAVAL

### Ship Non-Skid Systems: Thermal Spray, Coatings, and Self-Adhering

This session will cover innovative materials and technologies designed to improve grip and durability in harsh maritime environments, ensuring the well-being of crew members and the longevity of naval assets. The symposium will provide insights into the newest application techniques, maintenance practices, and performance standards, and case studies showcasing successful implementations in real-world scenarios.

### Corrosion Performance of Materials and Coatings in Marine Environments

This symposium will accept papers dealing with the corrosion performance of materials (metals and non-metals) and coatings in marine environments both aqueous and atmospheric.

- The Role of High-Performance Hull Coatings in the Quest for Net Zero by 2050



## Oil and Gas, Chemical, & Process Industries

### ASSET INTEGRITY

#### Facilities Integrity and Process Safety

This symposium features technical papers on the management of corrosion, process safety, and assets related to facilities for oil and gas midstream, upstream, and downstream.

- Managing the Integrity of Miraah—One of the largest solar thermal plants
- Total Failure Management to Improve Asset Integrity
- Is Metal Thickness the Next Process Variable?
- Control of Solids Formation in Spent MEA and MMA Triazine H<sub>2</sub>S Scavengers

- Innovative chemical offers enhanced performance in both paraffin control and corrosion inhibition
- Corrosion Inhibitor Properties Evaluation and Qualification for Downhole Batch Treatment Applications
- Preferential Weld Corrosion During Inhibitor Qualification for Sour Service
- Corrosion Inhibitor Performance: Challenges in Low Conditions

#### Advancements and Applications of VCIs

Volatile/vapor corrosion inhibitors are a well-established method for corrosion protection in a wide variety of applications from: oil and gas, transportation, packaging, water treatment. This symposium allows authors to present on work related to the advancement and application of volatile corrosion inhibitors.

- Developing Vapor Corrosion Inhibitor Powders to Protect the Above Ground Storage Tanks Bottoms

### CORROSION INHIBITORS

#### Corrosion Inhibitors in the Oil and Gas Industry

This symposium features technical papers on the study of corrosion inhibition mechanisms in the laboratory and the application of corrosion inhibitors or combination of corrosion inhibitors with other chemical functionalities in the field.

- Exploring the Hydrophobic Effects of Quaternary Ammonium Copolymers on Corrosion of Casing and Tubing Steel in Acidic Solution

### CATHODIC PROTECTION

#### Anodic & Cathodic Protection

This symposium features technical papers on anodic and cathodic protection of metallic materials, focusing on pipeline applications and other uses in oil, gas, water, and chemical systems.

- Feedback from the inspection of an offshore/onshore pipeline with Cathodic Protection Current Measurement tool

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

- CP system for trenchless CO<sub>2</sub> pipeline crossing in perforated HDPE casing
- Application of the experimental design methodology, to study the incidence of variables in the design of cathodic protection systems
- DC Interference caused by Lead Sheathed Cable Telecommunication Lines
- Smart cathodic protection management: advanced technology for optimizing output current in T/Rs.
- Cathodic Protection of Process Vessels—Our Experience
- Application of Specialized Assembled Felexible Anode to Stray Current Drainage in Pipelines

## AC Interference

Alternating current (AC) corrosion topics including interference modeling, case studies, corrosion evaluations, mitigation systems, or other relevant topics.

- Evaluating, Quantifying, and Reducing the Capacitive Effect of an Existing AC Mitigation System Utilizing SES Technologies' CDEGS Software Suite
- Remote & Co-Located AC Interference Issues from Reconducting Power Lines
- Impact of powerline reconductoring program on pipeline AC threats
- AC Interference and Mitigation at Pipeline Facilities—Case Study

## Cathodic Protection for Offshore and Marine Applications

Cathodic protection case studies, data, design and modeling and development of survey techniques for all offshore and marine applications, including pipelines, subsea infrastructure, windpower, floating facilities, jetties, and fixed structures

## Cathodic Protection Monitoring

This session will cover the latest advancements in CP system monitoring, including remote sensing technologies, real-time data analysis, and automated inspection techniques that ensure optimal performance and compliance with industry standards. Case studies will illustrate successful implementations and highlight challenges and solutions in maintaining effective CP systems. Papers will provide practical insights into best practices for designing, installing, and monitoring CP systems to enhance the longevity and reliability of critical assets.

- Cathodic Protection Enhancement for Cross-country Pipelines Corridor at Saudi Aramco
- Validation and further development of a measurement method for assessing alternating current corrosion—Part 1: Galvanostatic laboratory tests

- Case Study: Commissioning results and Monitoring System of Cathodic Protection of Above Ground storage tanks in a large tank farm project in Africa.

## Cathodic Protection Health and Safety

This symposium will feature new regulations, guidelines and best practices for safety practices in the corrosion industry. Topics could include OSHA regulations, workplace safety during CP installations, risk assessment. Presentations will cover advancements in safety protocols, personal protective equipment (PPE), and emergency response procedures.

## Environmentally Assisted Cracking

### ENVIRONMENTALLY ASSISTED CRACKING (EAC)

This symposium covers all kinds of EAC mechanisms including but not limited to, hydrogen embrittlement, stress corrosion cracking, corrosion fatigue, liquid metal embrittlement, which can take place in a wide range of industries and applications, such as oil & gas, offshore wind, CCUS, hydrogen storage and transportation, biofuels, petrochemicals, oil refinery, solar, geothermal, automotive, and aerospace. The topics can cover root cause failure analysis, laboratory testing methods, modeling of materials performance coupling with latest machine learning techniques, evaluation of destructive/non-destructive sensing technologies, industry standards development and/or gap analysis, state of art EAC research progress and reviews, and so on.

- The effect of CRA oxides on hydrogen permeation under cathodic protection conditions
- Lifetime Extension of Unbonded Flexible Risers Using a New Test Philosophy for Corrosion Fatigue
- Characterizing how different modes of corrosion exposure impact fatigue testing results on 4340 HSS steel.
- Flexible pipes - corrosion fatigue testing under representative environmental conditions

### PROCESS INDUSTRIES

This session will explore advancements in corrosion control techniques designed to withstand the harsh chemical exposures, high temperatures, and abrasive conditions characteristic of petrochemical processing. Participants will gain insights into innovative materials, protective coatings, surface preparation methods, and application technologies that enhance the durability and performance of infrastructure, from pipelines and reactors to storage tanks and industrial equipment. The session will also feature real-world case studies demonstrating effective corrosion mitigation strategies and maintenance practices that reduce downtime and extend asset life.

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## Petrochemical and Other Process Industries

- Towards Greener  $H_2S$  Mitigation: Lignosulfonate-Facilitated Fe(II) Scavengers

## PROCESS WATER

### Water Treatment Economics

This symposium covers water treatment vs. economics associated with risk and reliability and its impact on life cycle costs of a facility as well as failure analysis. It features technical papers on mitigation methods for corrosion, fouling and best practice operation of water systems during start up, operational upsets or idleness. Water systems used in influent water clarification, pretreatment for high purity water production, reactor / furnace waters (including closed systems; such as chilled, glycol, brine, low- and high-temperature water systems) cooling waters, steam generation and condensate return systems, effluent treatment systems and combustion / energy conversion systems of interest. Papers will address current conventional practices, new technology or applications, unusual situations requiring non-conventional approaches or case histories (failure analysis) of problem resolve will be considered. An outline on the cost or impact on the process's future performance of the particular subject matter would also be a useful inclusion.

- Corrosion Damages Analysis of Heat Recovery Steam Generator Tubes in Desalination Plants
- Desalinated Water Transmission Pipes: Dependence Upon Water Chemistry

## OIL AND GAS MATERIALS

### Corrosion Resistant Alloy Development and Applications

The objective of the symposium is to facilitate communication amongst diverse industries on the use of corrosion resistant alloys. The symposium is focused on the development of corrosion resistant alloys for temperatures below 600 °C using novel concepts, the application of these alloys in chemical process, petrochemical, oil and gas upstream and downstream, pharmaceutical, and various other industries, characterization of corrosion resistance using a variety of techniques, and life prediction models. Topics such as new alloy development, the use of atomic or other materials modeling techniques to develop new alloys, multi-principal element alloys for corrosion applications in various industries, alloy cladding or overlay coatings, and failure analysis, case studies, materials characterization involving corrosion resistant alloys are also considered. The symposium will feature a combination of invited and volunteer papers.

- Influence of an innovative surface hardening technology on the corrosion properties of stainless steels
- Innovative Duplex Stainless Steel UNS S83072: Enhanced Strength for Deep-Sea Umbilical Tubing
- Safe operation window for 25Cr duplex stainless steel in sea-water
- The influence of cold work and processing parameters on the

sensitization behavior of nickel based alloys using the example of UNS N08034

### Non-Metallic Materials in Chemical Processing and Oil and Gas Production

This symposium will focus on technical papers that discuss the use of polymer-based materials in controlling corrosion in chemical processing and oil and gas industries.

- Effect of Curing on the Final Material Properties of Glass-fibre Reinforced Plastic Used for the Repair of Downhole Casing
- Application of Glass Reinforced Epoxy Material in Critical Sour Environments
- Operational Conditions Where Composite/Multi-Layer Pipe Can Mitigate Corrosion for Oil and Gas Production
- Pioneering GRP Use in Amine-Based  $CO_2$  Capture: Insights from Pilot Plant Exposure Studies

### Advances in Materials for Oil and Gas Production

This symposium features technical papers on advances in materials technology and research in oil and gas production and asset development. The focus is on new and improved materials, both corrosion and cracking material responses in corrosive environments found in oil and gas production and support operations, modifications and improvements to existing test methods, and development of new test methods. This symposium also includes consideration and measurement of a material's performance in its employed exposure environment.

- A Multi-faceted Data Analysis of the Corrosivity of  $CO_2$  and  $H_2O$ -Rich Phases in Well Production with  $H_2S$  or Well Injection with  $O_2$  Ingress
- Assessment of the correlation between the ferrite content in the HAZ of duplex stainless steel welds and its influence on the corrosion resistance
- Effective Material Selection and Supply Chain Collaboration for Crude Distillation Column Replacement
- Evaluation of Low Cycle Fatigue (LCF) Performance in Pre-Welded Nickel Alloy 625 Clad Plates for Coke Drum Applications
- Extending Sour Service Limits for Nickel-Based OCTG Alloys in High-Temperature High-Pressure Wells: An Enhanced Guide for Safe Application
- Localized corrosion resistance of precipitation hardened Ni based alloys at the recommended limits of  $H_2S$  concentration and temperature
- Recent Experience From Field Application And Laboratory Testing On The Corrosion Risk of Stainless Steel UNS S82551 in Water Alternating Gas Service
- Research, Experience Survey and Ballot that Justifies Exclusion of Gas-Phase Free, Low-Water Stabilized Crude Pipelines from NACE/ISO Sour Service Cracking Requirements

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## SPECIAL TOPICS

### Regional Issues in Materials and Integrity in Oil and Gas

This symposium features technical papers on oil and gas industry issues unique to geographic regions. The focus will be owner-operators, vendors, consultants, and researchers. Areas of interest include but are not limited to corrosion, failures, wear, processing, material selection, inspection and asset integrity for mining, upgrading, refining, steam-assisted gravity drainage (SAGD), down-hole production, terminals and pipelines, and other surface equipment and facilities.

## OIL AND GAS PIPELINES

### Pipeline Integrity Symposium

This symposium will feature technical papers on all aspects of pipeline integrity. This will include pipeline integrity management, inspection, assessment, mitigation, operational aspects, regulatory issues, and emerging technologies. It will offer a forum for operators, regulators, and service providers to collaborate and share experiences to help drive a safer and more sustainable future.

- *Fighting Shielded Corrosion*
- *Finding a Suitable "Other Technology" for the Integrity Inspection of Buried Non-piggable Pipelines*
- *Identification of regions highly susceptible to release due to bottom-side internal corrosion*
- *Metallurgical Evaluation of Hard Spots in X52 Pipe and Associated Cracking*
- *The Case of Atypical Accelerated External Corrosion Inside a Casing*

### Pipeline Crossings

This symposium covers steel-cased, thrust-bored, and horizontal directional drilling. It features technical papers for carbon steel HDD design, construction, design and management including effects on CP, HDD coatings, coupons, mud standards, common issues, effectiveness and efficiency of the HDD programs, etc.

- *One (1) Percenters – Allowable Bare Areas (ABAs) - Horizontal Directional Drilling (HDD)*
- *Rethinking NACE TM-0102: An Explanation of the PRCI Battelle Method and Its Advantages in Assessing actual Coating Conductance*

### Sweet and Sour Corrosion

This symposium features technical papers on corrosion in CO<sub>2</sub> and/or H<sub>2</sub>S service, or general internal corrosion challenges associated with onshore/offshore production system, pipelines and facilities in oil and gas.

- *Incorporating Dissolved Sulfur as a Critical Metric in NACE MR0175/ISO 15156 Standard for Accurate Corrosion Severity Assessment of Ni Alloy*

- *Interrogating Iron Calcium Carbonate Corrosion Layer Properties Using Electrochemical Impedance Spectroscopy*
- *Investigation into the Mechanistic Controlling Behaviors of CO<sub>2</sub> Corrosion Models via the use of Simulated Polarization Curves*
- *Sour Corrosion and Cracking in the Oil and Gas Sector*
- *Tailor-made Corrosion Inhibition Treatment of Low-Pressure Sour Gas Wells*
- *The Effect of Flow on CO<sub>2</sub> Corrosion of Self-Healing Metallic Coatings*

### Oil and Gas Refining

#### Corrosion, Fatigue & External Stress Cracking Under Thermal Insulations

This symposium features technical papers on corrosion under insulation (CUI), corrosion fatigue, and external stress corrosion cracking (SCC) for steels under thermal insulations. CUI is a well-known industry issue that takes up to 10% of refineries' overall maintenance budget and needs to be addressed along with corrosion fatigue and SCC risks. This symposium aims to include papers that address the aspects of CUI, corrosion fatigue, and external SCC for thermally insulated piping, equipment, tanks, pipelines, etc. The papers may include (but are not limited to) original, novel, and unpublished work based on lab testing, pilot trials (in the field settings), case histories, etc. The target audience/ authorship for this symposium includes professionals from asset owners/ operators side as well as different technology sectors for CUI, corrosion fatigue, and SCC management that include, but are not limited to: (a) materials (thermal insulations, metals/ alloys, jacketing, etc.) (b) inspection/ NDE tools and/or techniques (c) probes (moisture, corrosion, cracking, etc.) (d) preventive measures such as coatings, cathodic protection, moisture barrier, corrosion/ scale inhibition, etc. and (e) modeling such as risk-based inspections, AI, digitalization, etc.

- *A Comparison of Thermally Sprayed Aluminum (TSA) Degradation Behavior Under Immersion and CUI Simulation Conditions*

### Oil Refining Industry Corrosion Symposia

This symposium features technical papers on corrosion and materials issues within the refining industry. Topics include case studies, research, materials/coatings performance, damage mechanisms, failure analyses, etc.

- *Applying Mass Transfer Principles to the Design and Operation of Refinery Crude Distillation Overhead Water Wash Systems*
- *Case Study on Failure Analysis of Centrifugally Cast Hot Collector Outlet Header in a Hydrogen Generation Unit*
- *Estimating Sulfidic Corrosion in Low Partial Pressure H<sub>2</sub>S/H<sub>2</sub> Environments*



# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## Energy Transition

### RENEWABLES

#### Geothermal Power

This symposium features technical papers on scaling and corrosion in geothermal systems. The aim is to promote discussion of scaling and corrosion challenges and opportunities in geothermal energy systems. Papers are sought that provide insight on the impact of production, process, and reinjection conditions on materials selection and process efficiency. Descriptions of research activities, failure analysis, successful implementation of new technologies, as well as corrosion and scaling protection strategies are welcome.

#### Wind and Offshore Renewables

This session will cover the latest advancements in protective coatings and materials specifically designed to withstand the extreme conditions faced by wind turbines and other renewable energy offshore installations. Papers will provide insights into innovative surface treatments, environmentally friendly coatings, and long-lasting protection strategies that enhance the durability and performance of renewable energy assets.

- Investigation of corrosion behavior of S355 Steel in artificial seawater and sediment

#### Solar

The session will highlight advanced protective coatings and materials engineered to enhance the durability and performance of solar panels, and other critical components for photovoltaic solar, concentrated solar, and solar support structures. Papers will provide information on the newest corrosion protection technologies, maintenance strategies, and best practices for extending the service life of solar assets.

#### Hydroelectric Power and Pumped-Storage Hydroelectricity

The session will highlight techniques and materials to enhance the durability and performance of turbines and other critical components in hydroelectric power and energy storage. Papers will provide information on the newest corrosion protection technologies, cavitation prevention, maintenance strategies, and best practices for extending the service life of hydroelectric assets.

#### Alternative Fuels

##### Hydrogen and Emerging Fuels

This symposium features technical papers on a broad range of topics related to the hydrogen industry including hydrogen production challenges, material compatibilities, mitigation strategies, transport options and challenges with transitioning existing energy systems to use with hydrogen where, existing natural gas networks are being evaluated for compatibility with transporting hydrogen-natural gas (H<sub>2</sub>-NG) blends.

#### Gaseous Hydrogen Embrittlement

This symposium features technical papers about the study of the hydrogen-metal interaction and reliability of alloys, components, and structures used in services which involve the treatment, storage and transport of hydrogen in gaseous form at different operating conditions in conventional and sustainable energy industries.

- Applying Sour Service Material Requirements for Designing Isolation Valves in Gaseous Hydrogen (H<sub>2</sub>) Environments
- Fracture Toughness Testing of Gas Cylinders Materials in Gaseous H<sub>2</sub> and Sour Environments

#### Corrosion in the Biofuel and Biomass Industry

The objective of this symposium is to share experience related to material selection, corrosion issues, and corrosion mitigation in the biofuels industry. We know that this industry is growing and that the switch from conventional fossil feedstocks to vegetable oil or biomass may cause severe corrosion issues. This symposium will cover both the production of biodiesel and bioethanol.

- Corrosion mechanisms of stainless steels and nickel-base alloys in hydrothermal liquefaction biorefining conditions

#### Carbon Capture, Utilization, & Storage

##### Corrosion in Carbon Capture, Transportation, Utilization and Storage (CCTUS)

This symposium features technical papers on the measurement, mechanism, or assessment of corrosion in carbon capture and storage system, including carbon dioxide and other impurities present in the process. Papers can be of a research or industrial nature.

- Assessment of the risk of Stress Corrosion Cracking of pipelines transporting CO<sub>2</sub> in presence of CO contamination.
- Can fiber reinforced polymer composite replace expensive CRA in CCUS injection wells?
- Chemical Interactions and Corrosion in Impure CO<sub>2</sub> Pipeline Transport
- Chemical reactions in CCS streams
- Corrosion Resistance of CRA for CCS Applications under O<sub>2</sub>, SO<sub>2</sub> and Practical Mixed Gas Conditions at Different Chloride Levels
- Corrosion and Cracking Testing of Stainless Steel and Nickel Alloy under Dense Phase CO<sub>2</sub> Transport Conditions
- Corrosion behavior of martensite-based stainless steels in the NaCl solutions saturated with CO<sub>2</sub> containing multiple impurity species
- Corrosion behavior comparison of solution annealed and cold work super duplex stainless steel in a CCS environment: a study of material performance over time

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

- Corrosion of carbon steel exposed to CO<sub>2</sub> hydrate
- Corrosion testing of carbon steel in supercritical CO<sub>2</sub> applications
- Effect of SO<sub>2</sub>, NO<sub>2</sub>, O<sub>2</sub>, and Chloride on Corrosion Behavior of Duplex and Super Duplex Stainless Steels in CCUS Environments
- Evaluation of crevice corrosion resistance in CRAs by different testing methodologies under CO<sub>2</sub> injection well field conditions.
- Evaluation of various downhole materials under simulated CCUS environments - supercritical CO<sub>2</sub> with impurities-, and comparison of different experimental techniques.
- Localized Electrochemical Parameter Analysis of Steel Seam Weld Corrosion in CO<sub>2</sub>-rich Environments

- Molecular Modeling Insights for Corrosion Prediction in Supercritical CO<sub>2</sub> Pipelines
- On the Serviceability of Well Completion Stainless Steels in Moist CO<sub>2</sub> Gases with Trace Impurities

## Nuclear Power

### Corrosion in Nuclear Systems

This symposium will feature technical papers on material corrosion related issues encountered in nuclear waste and spent fuel storage and disposal, generation of nuclear power energy in light, heavy and advanced nuclear power reactors and plants. Papers can include degradation mechanisms for materials and components in service in nuclear systems. Also of interest are papers on materials manufacturing and materials development techniques for current and advanced materials for nuclear power generation, including areas like additive or other advanced manufacturing techniques.



## Emerging Topics

### DIGITAL TRANSFORMATION

#### Machine Learning for Corrosion Management

This symposium features technical papers on how to model and/or manage corrosion using new machine learning techniques. This may include how to deal with large data sets, create digital twins, model corrosion (or other time dependent material degradation mechanisms) using artificial neural networks, Bayesian networks, decision trees etc.

#### Corrosion Management

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

- Development of Accelerated Galvanic Corrosion Testing for Evaluating Heat Exchanger Corrosion Penetration Lifespan

- Dynamic Decision-Making in Corrosion Management: A Case Study of 10" Sour Wet Gas Line

#### Automated Inspection

This symposium would cover advancements in AI-driven image analysis tools that can assess corrosion levels and coating breakdown. It would also showcase AI enhances in inspection accuracy, automated reporting, and optimized maintenance strategies.

- Advanced Technology for the Measurement of Stray Current and Track Resistance for DC Powered Rail Systems

#### Digital Twins

This session will explore the creation, implementation, and benefits of digital twins, including enhanced predictive maintenance, performance optimization, and lifecycle management. Papers will address the integration of IoT sensors, data analytics, and AI to create accurate and dynamic models that reflect real-world conditions. Case studies from various sectors will illustrate successful deployments and highlight best practices.

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

- Applied Digital Twin use to support Aging Asset Management Plans: Metallic Density Modeling to support Cathodic Protection System Design and Optimization

## Corrosion Data Analytics, Probabilistic Assessment, Risk Management

This symposium covers corrosion data analytics, probabilistic assessment, and risk management, and will explore the techniques transforming how we predict, assess, and mitigate corrosion risks. Topics will include machine learning, big data technologies, probabilistic assessment models for corrosion-related failures, comprehensive risk management strategies that integrate these analytical tools to prioritize maintenance activities, optimize resource allocation, and enhance decision-making processes. Case studies from various industries will showcase practical applications and highlight a data-driven approach to corrosion management.

## DRONES & ROBOTICS

### Drones, Robotics, Sensing, & Automation

This session will provide an in-depth discussion on the latest advancements in drone, robotic, sensing, and automation technologies as they pertain to corrosion protection, monitoring, and coatings application and inspection. Topics will include the use of corrosion monitoring sensor technologies, robotic coatings application, robotic inspection, smart cathodic protection management, and corrosion issues in autonomous systems.

## MATERIALS SUSTAINABILITY

### A Pan-Industrial View of Material Sustainability and Material Stewardship Practices

Materials sustainability and materials stewardship practices are becoming increasingly important for today's organizations. This symposium will aim to present the concepts of materials sustainability and materials stewardship within the circular economy as additional principles to consider within corrosion management best practices.

## ECONOMICS

### Economics of Corrosion

This session will examine the direct and indirect costs associated with corrosion, including maintenance expenses, downtime, repair costs, and lost productivity across various sectors such as infrastructure, transportation, energy, and manufacturing. Participants will gain a comprehensive understanding of the economic

implications of corrosion mitigation strategies, including preventive maintenance, protective coatings, and advanced materials. Case studies and economic models will illustrate the cost-effectiveness of investing in corrosion management practices to prolong asset life and enhance operational efficiency. Papers will also explore emerging trends in corrosion economics, such as life cycle cost analysis and risk-based decision-making, to optimize resource allocation and mitigate financial risks associated with corrosion-related failures.

## EXTREME ENVIRONMENTS

### High Temperature Materials and Corrosion

The High-Temperature Materials and Corrosion Symposium seeks papers showcasing experiences and development in material performance, testing, in-service case study, experimental framework and computation-assisted modeling of high temperature alloys and coatings and claddings for exposure at temperatures of 400°C and above. The focus of this symposium is on material properties and performance; oxidation and corrosion behavior, mechanisms, modeling, and prediction; material characterization; failure analysis; alloy and coating development; and practice in industries including aerospace, nuclear, fossil, clean and renewable energy, industrial heating, refining, chemical and petrochemical, supercritical fluid application, molten salt reactor, etc.

## ADVANCED MANUFACTURING

### Corrosion and Corrosion Testing of Additively Manufactured Materials

This symposium features technical papers on material degradation and corrosion related issues of additively manufactured (AM) materials. Subjects include but are not limited to: process, structure, performance relationships, post processing treatments and surface finish, corrosion mechanism of AM materials, AM material degradation in corrosive environments, AM materials selection and applications, AM qualification and certification, integrity or risk analysis and assessment, etc.

- An Evaluation of the Mechanical Properties and Sulfide Stress Cracking of Additively Manufactured Ti-6Al-2Sn-4Zr-6Mo Alloy for Sour Geothermal Use
- Enhanced hydrogen embrittlement resistance of Selective Laser Melting Alloy 718 by optimizing printing parameters
- Grain Boundary Microstructure and Intergranular Corrosion Resistance in SLM-Fabricated AISi10Mg Alloy

# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## AUTOMOTIVE

### Corrosion and Coatings in Automotive Industry

This symposium features technical papers on corrosion phenomena and corrosion protection strategies in the automotive industry. Focus is on: a) effect of vehicle electrification on the corrosion resistance of automotive components; b) advanced coatings toward a sustainable economy; and c) corrosion-resistance-oriented design of components. Papers on new materials, new characterization techniques, innovative approaches, case studies and failure analyses are encouraged.

- Tailoring the Anodizability and Corrosion Resistance of AISI Alloys by Microstructural Tuning

## COATINGS TECHNOLOGY

### Nanotechnology in Protective Coatings

This session explores the transformative impact of nanotechnology on the development and performance of protective coatings. This session will delve into how nanomaterials are being used to create coatings with superior properties, such as enhanced durability, corrosion resistance, and self-cleaning capabilities. Attendees will learn about the latest advancements in nanoparticle formulations, application techniques, and the integration of nanotechnology in various industries. Topics will include nanocoatings, graphene, atomically thin coatings, 2D materials.

### Advancements in Coatings for Low-VOC and Non-Chrome Applications

This session explores the latest advancements in coatings technology that prioritize environmental and health considerations. This session will delve into innovations in low volatile organic compound (VOC), lead-free, and chromium-free formulations, showcasing how these developments contribute to sustainability and compliance with stringent regulatory standards. Attendees will learn about novel materials and manufacturing techniques that maintain or enhance performance while reducing environmental impact.

- Epoxy Polysiloxane Innovations: Safe, Sustainable, and Effective Coating Solutions
- Latest Advancement for Sustainable Low-VOC Materials

## MICROBIOLOGICALLY INFLUENCED CORROSION

### Microbiologically Influenced Corrosion (MIC)

The session will cover microbiologically induced corrosion (MIC) and its significant impact on various industries. The session will highlight the latest research on microbial activity's role in accelerating material degradation, focusing on how specific bacteria and environmental conditions contribute to MIC. Papers will cover detection, monitoring, and mitigation strategies, including novel biocides, advanced coatings, and biofilm-resistant materials. Real-

world case studies from sectors such as oil and gas, water treatment, and maritime that illustrate effective approaches to managing MIC are encouraged.

## Corrosion Research

### RESEARCH TOPICAL SYMPOSIA (RTS)

- Emerging AI Technologies in Corrosion

### RESEARCH IN PROGRESS SYMPOSIA (RIP)

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

### Environmental Degradation

This RIP symposium covers studies of materials exposed to a wide range of environments including field and simulated conditions. Presentations address the understanding of corrosion processes, mechanisms, performance, protection, simulation, or prediction aspects of materials in the environments. Topical phenomena include galvanic, localized, and general corrosion. Presentations include the fundamental aspects of the ongoing research including laboratory experiments, computational modeling, electrochemical techniques, and mechanistic initiation.

### Corrosion in Extreme Environments

This RIP symposium will examine the mechanisms of corrosion from exposure to extreme environments and the role of high-performance surface treatments such as thermal barrier coatings, corrosion-resistant coatings, or dissimilar materials cladding. Presentations discussing novel methods to address the complex testing requirements in those environments, or the evaluation of novel materials and manufacturing techniques are also welcome. Contributions are relevant to industries including gas turbine manufacturing, nuclear power generation, chemical processes, energy storage, etc.

### Corrosion in Energy Storage

The RIP symposium will address global energy strategies focused on sustainability and efficient energy storage systems. It will explore how corrosion impacts the integrity, efficiency, and longevity of technologies such as hydrogen storage, batteries, fuel cells, and biofuels. Presentations should cover corrosion-resistant materials, innovative alloys, and protective coatings, detailing research on corrosion mechanisms, effects, and prevention strategies. Insights into advanced materials science and engineering solutions for managing corrosion in energy storage systems will be highlighted.



# Peer-Reviewed Symposia

All content listed below is still in the review process by session chairs and vice chairs.

## Environmentally Assisted Cracking and Hydrogen Embrittlement

This RIP symposium covers various aspects of environmentally assisted cracking and hydrogen embrittlement. The focus is on the cracking of conventional or newly developed alloys, as well as methodologies for mitigation and/or repair. In addition, studies related to the development of novel techniques to monitor crack initiation and growth, testing protocols, and life prediction models, including the expansion of these techniques/models to measurement in extreme environments, are welcomed.

## New Technologies in Coatings and Inhibitors

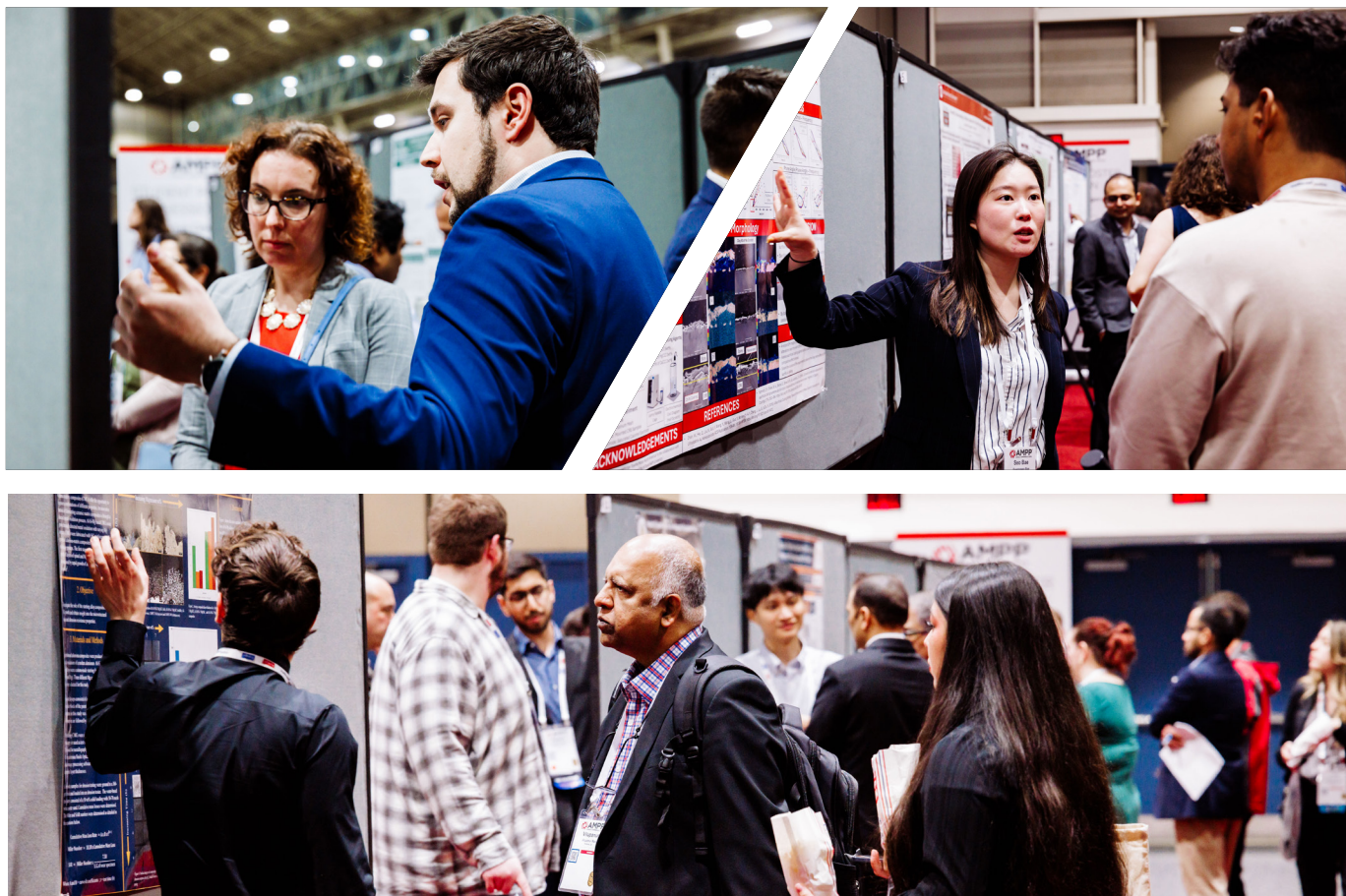
This RIP symposium invites abstracts that focus insight into the future direction of the industrial coating and corrosion inhibitor technology roadmap and advancements in coatings and corrosion inhibition via applied coatings and inhibitor additives. Presentations discuss the response to global regulatory pressures from economic and ecologic concerns or new technologies that extend the lifetime of components. Additional interests include polymers/resins, additives and pigments, pre/post treatments, and reactive solutions which provide new functionality and performance attributes.

## Materials Degradation and Sustainability in Infrastructure

The RIP symposium focuses on materials degradation and sustainability in various infrastructures, including aerospace, automotive, transportation, civil, water and O&G pipelines, and defense. Emphasizing the reduction of carbon emissions and achieving net-zero targets, the symposium highlights the importance of integrity and corrosion management for durability and sustainability. Research covers circular economy, climate change, and disaster impacts, aiming to improve public safety and environmental responsibility. Presentations should address damage mechanisms, corrosion types, and prevention strategies for sustainable infrastructure.

## STUDENT POSTER SESSION

The Student Poster Session at the AMPP Annual Conference + Expo encourages students to present the results of their work in Corrosion Science / Engineering and Applied Materials Protection Technologies to membership. SPS are typically judged by AMPP Fellows, industry professionals, academia/research experts and Government professionals.



# Presentation Sessions

All content listed below is still in the review process by session chairs and vice chairs.



## Civil Infrastructure

### BRIDGES AND TRANSPORTATION

#### Bridge Preservation & Asset Management

- Bridge Preservation Forum by the Bridge Technical Community of Interest (TCI)
- DOT Forum
- Managing High Standard High Value Infrastructure (HVI) Projects from Scratch to Hatch: Sharing Lessons Learned from Panama Subway Expansion Project

### WATER AND WASTEWATER

#### Corrosion in the Water and Wastewater Industries

- AMPP & AWWA: Synergy in Water/Wastewater Infrastructure Sustainability Through Optimization of Life Cycle Costing via Corrosion Control
- Case History from Four Viewpoints
- Workshop: Water hammer, water main breaks, CUI, SCC, and explosions in piping (4-hour workshop)
- STI/SPFA Field Erected Steel Water Storage Tank Seminar

### CONCRETE INFRASTRUCTURE

- Concrete Reinforcement: Metallic and Nonmetallic Options for More Durable Concrete Solutions

### DEFENSE

- UFC/UFGS Panel
- DoD Case Studies
- Weapons System Corrosion Management
- Military Branch Updates - Insights from the Corrosion Executives

- Demonstration of Innovative One-Step Corrosion Inhibiting Petrolatum Tape and Presentation about Canada's Best Kept Secret—A Float Coat Corrosion Inhibitor Used by the Canadian Navy

## Coatings & Surface Preparation

### COATINGS

- Coatings 101 Workshop
- Full utilization of Industrial and protective coatings in Nigerian Industrial sector. A case study of Nigeria coating practice

### COATINGS INSPECTION

- Proper Use of Coating Inspection Instruments
- 3rd Party Inspection Services: Is this still needed in our Industry?

### COATINGS FAILURE ANALYSIS & FORENSICS

- Coating Failure Investigations - Causes and Repairs
- Coating & Lining Failures: Understanding Common & Unusual Causes of Premature Failures. Learning How to Systematically Solve Them When They Occur
- Field Applications of Electrochemical Impedance Spectroscopy (EIS) across the Corrosion Industry

### COATINGS MATERIALS

- More Zinc Coatings for Asset Protection by Land and Sea
- Thermal and Cold Spray Coatings
- Thermal and Cold Spray Processes and Applications in Corrosion Mitigation
- Coatings and Case Studies for Asset Protection in Corrosive Atmospheric Conditions
- College of Fire Knowledge 2.0

# Presentation Sessions

All content listed below is still in the review process by session chairs and vice chairs.

## Energy—Oil & Gas

### ASSET INTEGRITY

- Corrosion Under Insulation

### CORROSION MANAGEMENT

- Data Challenges in Corrosion
- Electrochemical Techniques for Measuring Corrosion
- Integrated External Corrosion Management

### CORROSION INHIBITORS

- Properties Requirements and Corresponding Test Methods of Corrosion Inhibitor Used in Gas Gathering and Transportation System

### CATHODIC PROTECTION

- AC & DC Interference—Panel Discussion & Forum
- Cathodic Protection Forum
- A Different Take/Strategy on the Utilization of Cathodic Protection for Aging Assets: Case Study

### MATERIALS

- Recent Developments in Duplex and Ferritic Stainless Steels
- Recent Developments in Austenitic Stainless Steels and Nickel Alloys Information Exchange
- Failures of Corrosion Resistant Alloys Resulting from Hydrostatic Testing Prior to Commissioning

### OIL AND GAS PIPELINES

- Data Challenges with Pipeline Integrity Forum
- Strategies for Compliance Amidst Corrosion Rule Changes

### UTILITIES AND PROCESS INDUSTRIES

- Water Treatment Forum by the Water Treatment Technical Community of Interest (TCI)

## Energy Transition

### RENEWABLES

- Offshore Wind: Understanding The Market Opportunities And Challenges Of Providing Corrosion Protection For The US Market & Lessons Learned from our European Partners
- Materials/Coating Corrosion in Off-Shore Wind (OSW) Applications
- Materials for Geothermal Applications
- The next pipeline oil is solar and wind
- Corrosion Control in Solar Photovoltaic (PV) Structures

## Emerging Topics

### EXTREME ENVIRONMENTS

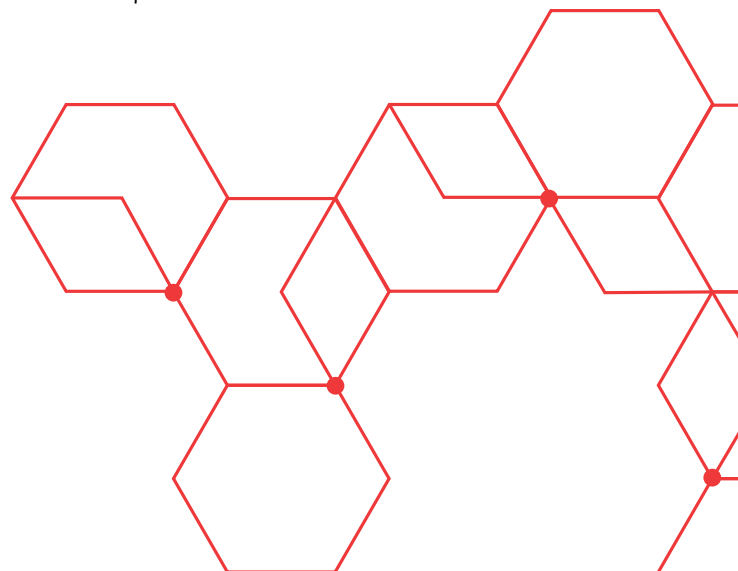
- Model Based Systems Engineering Methodology for the Design of Environmental Severity
- Emerging H<sub>2</sub>S Scavenger Technologies for the Oil and Gas Industry

### DRONES AND ROBOTICS

- Using Industrial Tethered Power Wash Drones for Corrosion Prevention and Extension of Coating Life for Industrial Assets
- Robotic Inspection Technical Exchange by the Robotic Inspection to Utilities Technical Community of Interest (TCI)

### MATERIALS SUSTAINABILITY

- A Pan-Industrial View of Material Sustainability and Material Stewardship Practices





# AMPP On-Site Meetings

The meetings and activities below do not necessarily fall under one specific track and/or cover a broader audience.



## BOARD OF DIRECTORS

AMPP Board Meeting

## PROGRAM GOVERNANCE COMMITTEES

Accreditation Program Committee (APC)

Advocacy and Public Affairs Program Committee

Awards Program Committee

Certification Program

Conferences and Events Program Committee

Education Program Committee

EMERG Program Committee

Joint Accreditation Program Committee

Membership Program Committee

Publications Program Committee

Research Program Committee (RPC)

Standards Program Committee (SPC)

Technical Program Committee (TPC)

## OVERSIGHT COMMITTEES

CORROSION Journal Editorial Board

Ethics and Professional Practice Committee

MP Editorial Advisory Board

## OTHER MEETINGS AND RECEPTIONS

AMPP Sister Society Meeting and Reception

EMERG Student Lunch Meeting

Nominating Committee Meeting

MPI Advisory Council

Licensee Meeting

Annual Member Meeting

Chapter Officer Meeting

Latin America Area Task Force

US Central Area Task Force

East Asia and Pacific Area Task Force

European Area Task Force

West Asia and Africa Area Task Force

Canada Area Task Force

US Gulf Coast Area Task Force

US Western Area Task Force

US Eastern Area Task Force

China Area Task Force

## STANDARDS DEVELOPMENT PROGRAM

Standards Committees Training

US TAGs to ISO TC 35 and TC 156

Standards Committees

## TECHNICAL COMMITTEES

### CIVIL INFRASTRUCTURE

- SC 12 Concrete Infrastructure
- SC 17 Rail & Land Transportation
- SC 23 Coating System Application, Maintenance, and Inspection
- SC 24 Environmental Health and Safety (EHS)/Regulatory
- SC 25 Accreditation Standards
- TC 02 TCI - Cathodic Protection - Reinforced Concrete Infrastructure
- TC 04 Transportation and Infrastructure



# AMPP On-Site Meetings

The meetings and activities below are subject to change. For the most up-to-date information, visit [ace.ampp.org](https://ace.ampp.org).

## DEFENSE, AEROSPACE, AND MARITIME

- SC 07 Defense & Aerospace
- SC 19 Maritime
- TC 09 Defense
- TC 09 TCI - Military and Defense
- TC 09 TCI – Defense Corrosion Modeling Working Group

## COATINGS & SURFACE PREPARATION

- SC 02 External Coatings – Atmospheric
- SC 03 External Coatings - Buried & Immersed
- SC 04 Linings & Internal Coatings
- SC 05 Surface Preparation
- TC01 Coatings
- TC01 TCI-Atmospheric Coatings
- TC01 TCI-Corrosion Under Insulation/Passive Fire Protection
- TC01 TCI-Linings, Immersion, and Buried Service Coatings
- TC01 TCI-Surface Preparation

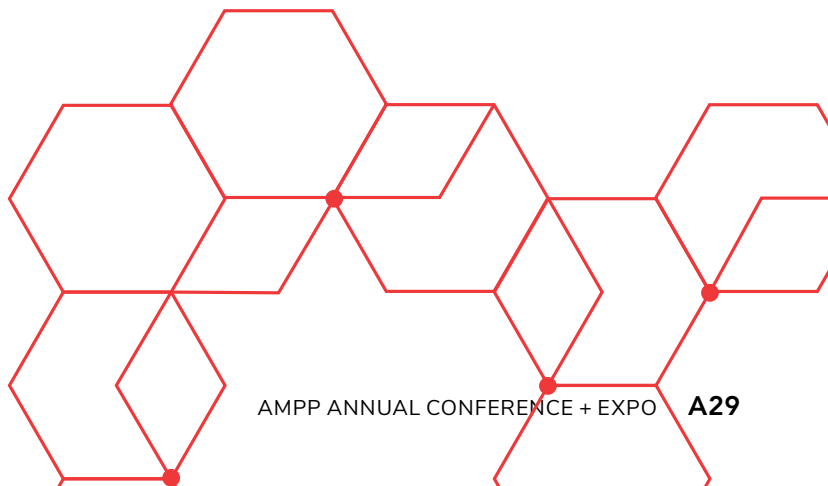
## ENERGY TRANSITION

- SC 26 Carbon Capture, Alternative Fuels, and Energy Storage
- SC 11 Electric Power
- TC03 TCI-Carbon Capture and Storage (CCS)
- TC08 TCI-Fossil, Nuclear, Hydro Power Generation
- TC08 TCI-Renewable Energy (including Waste Energy)
- OIL AND GAS, CHEMICAL/PROCESS INDUSTRIES
- SC 01 Cathodic/Anodic Protection
- SC 06 Process Industries
- SC 08 Metallic Material Selection & Testing
- SC 09 Non-metallic
- SC 10 Asset Integrity Management
- SC 13 Corrosion Monitoring & Measurement
- SC 14 Oil and Gas - Upstream
- SC 15 Pipelines & Tanks
- SC 16 Oil and Gas - Downstream
- SC 18 Water & Wastewater
- SC 20 Internal Corrosion Management
- SC 21 Mining & Mineral Processing
- SC 22 Biodeterioration

- TC02 Cathodic Protection
- TC02 TCI-Cathodic Protection - Interference
- TC02 TCI-Cathodic Protection - Monitoring
- TC02 TCI-Cathodic Protection - Offshore
- TC02 TCI-Cathodic Protection - Onshore
- TC03 Oil and Gas
- TC03 TCI-Oil & Gas Corrosion & Scale Inhibition
- TC03 TCI-Oil & Gas Materials Selection & Metallurgy
- TC03 TCI-Oil & Gas Non-metallics & Coatings
- TC03 TCI-Oil & Gas Petroleum Refining and Gas Processing
- TC05 Corrosion Management
- TC05 TCI-Inhibitors
- TC05 TCI-Mechanism Assessment
- TC05 TCI-Monitoring, Measuring, and Inspection
- TC07 Process Industries
- TC07 TCI-Chemical
- TC07 TCI-Chemical - High Temperature
- TC07 TCI-Process Industries - Materials Applications and Experiences
- TC08 TCI- Process Industries Water Treatment
- TC08 Utilities
- TC10 Pipelines and Tanks
- TC10 TCI- Pipelines and Tanks Below Grade Service
- TC10 TCI-Tanks
- TC11 Materials

## EMERGING TOPICS

- SC 27 Mechanical Insulation
- TC05 TCI-Data Analytics
- TC06 Global Engagement
- TC08 TCI-Robotic Inspection to Utilities



# Program Schedule



## EMERG Student Camp

A day-long camp for local high school students will be held in conjunction with the conference. Local students from Nashville-area high schools will participate in hands-on, coatings and corrosion activities. Using cKit (AMPP Corrosion Toolkit), they will learn basic scientific principles of corrosion in topics such as oxidation, thermodynamics, and electrochemistry. Students will hear about research and career opportunities from industry professionals and university students while touring the AMPP 2025 show floor.

## EMERG Student Lunch Meeting

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

## Travel Assistance Distribution

Eligible students redeem travel assistance vouchers at Registration on Wednesday, April 9th.

## SYP Coaching Sessions

The EMERG Student Outreach Program is offering students and young professionals under the age of 30 the opportunity to sign up for a 30-minute career coaching session with an industry expert. Whether you're just starting out in the industry, preparing for an upcoming interview, or need some insight or direction with your career goals, the volunteer coaches are there to help you navigate and explore your career aspirations and challenges to achieve success! If you are interested in volunteering as a career coach at AMPP 2025, please contact Heather Lowry at +1 281-228-6205 or [heather.lowry@ampp.org](mailto:heather.lowry@ampp.org).

## Student Poster: Orientation, Poster Viewing Sessions, Poster Session Awards Ceremony

Chair: Christopher L. Alexander

Vice Chair: Gregory Kubacki

Past Chair: Thu Addis





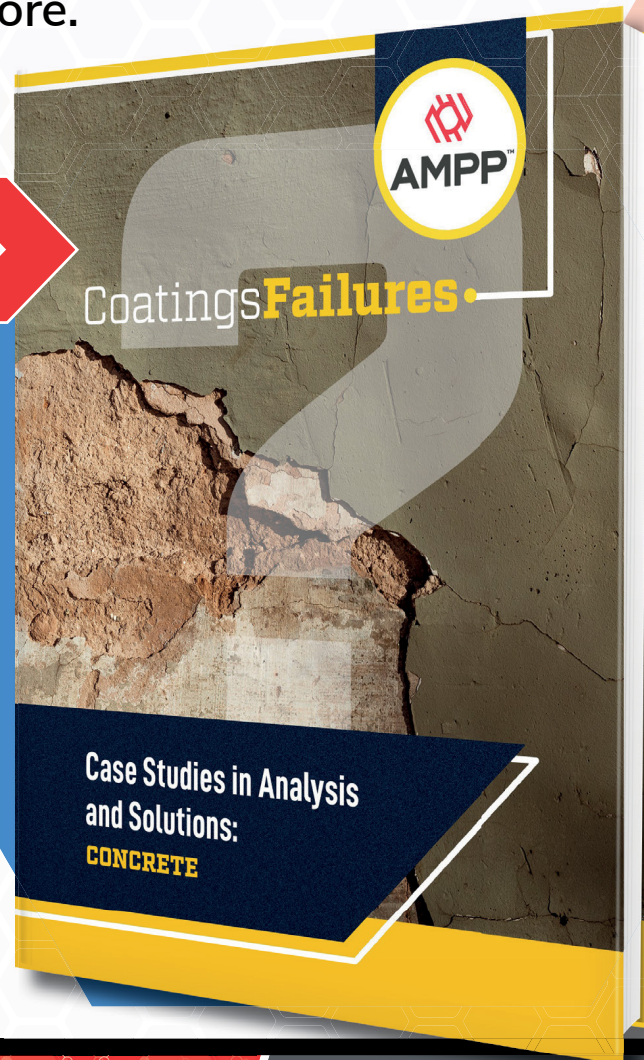
# Skip the frustration of learning the hard way from a coating failure.

Instead, learn how the experts handled failures!

In this multi-author book, “Coatings Failures: Analysis and Solutions: Concrete,” experts recall how they handled blistering of tilt-up concrete, sodium silicates and their role in coating and finishing failures, slab curling, and more.

Fast-track your success.

**Buy your  
copy today.**



[www.ampp.org](http://www.ampp.org)

# Program Schedule



## Materials Performance Corrosion Innovation of the Year Awards Presentation

The Materials Performance (MP) Corrosion Innovation of the Year Award Presentation is dedicated to celebrating groundbreaking innovations that are shaping the future of corrosion prevention.

## Darrel D. Byerley Memorial Golf Tournament

Sunday, April 6, 2025

Hermitage Golf Course, 3939 Old Hickory Blvd, Old Hickory, TN 37138 | +1 615-847-4001

Start your conference week off with a relaxing round of golf on 300 acres of natural Tennessee wetlands along the banks of the Cumberland River. Having been voted the "Best Golf Course in Nashville," General's Retreat is a must play when visiting the Nashville, Tennessee area.

Teams or individual players can sign up when registering for AMPP 2025. Sponsorships are also available! For more information, please email [emerg@ampp.org](mailto:emerg@ampp.org) or call +1 281-228-6205.

### Signature Sponsor:



## Exhibit Hall Grand Opening

Monday, April 7, 2025 | 5 p.m.

### Sponsored by:



**SHERWIN-WILLIAMS**

## Exhibit Hall Lunch

All Full Conference, Tuesday One-Day and Tuesday Two-Day Conference attendees receive a complimentary lunch in the Exhibit Hall on Tuesday. Tickets are included with your badge.

## Guest Program Breakfasts

Breakfasts are for individuals who are guests of conference attendees and purchase the Guest Program Registration.

## Honoree Night

Wednesday, April 9, 2025

The Country Music Hall of Fame®

Event Hall | 6-10 p.m.

AMPP invites you to an evening of celebration on Wednesday night as the association's awards are presented in recognition of members who have made outstanding contributions to AMPP and the corrosion control industry. Guests will enjoy a relaxing evening of networking, heavy hors d'oeuvres, and entertainment. Tickets are required and available for purchase online.

## Opening Reception

Omni Nashville Hotel

Broadway A-K

Sunday, April 6, 2025

5:30 - 7 p.m.

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

### Sponsored by:



## Scholarship Awards & Student Networking

LOCATION TBD

Monday, April 7, 2025

8:00 - 11:00 pm

AMPP EMERG welcomes students and invited guests to an evening of networking and recognition as we celebrate GenNEXT and the future of our industry, and recognize our 2025 scholarship recipients. For information on sponsorship opportunities, please contact [heather.lowry@ampp.org](mailto:heather.lowry@ampp.org). \*This event is invitation only. All student registrants for AMPP 2025 receive a complimentary event ticket with their conference registration.



# Program Schedule

## Silent Auction

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

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

## Strengthening our Future: Sustaining and Enhancing a Leading Workforce (No ticket required)

Tuesday, April 8, 2024

1:30 – 3 p.m.

## Women of AMPP Activities

Monday Forum

Tuesday Breakfast (ticket required)

Tuesday Panel

Wednesday Speed Mentoring

## AMPP Education & Certification

Expand your conference experience by registering for a course or certification. Our industry-recognized programs offer the latest knowledge and skills in coatings and corrosion. The below are courses and certifications we hope to bring to you during your conference experience. Stay tuned for specific dates on the below list and please note offerings are subject to change. Visit [ampp.org/education](http://ampp.org/education) for the most up-to-date information.

## Basic Corrosion Course

Understand corrosion causes, detection, and control methods. Hands-on learning, case studies, and open discussions included. Please note that as part of this course, you will receive an exam credit to achieve the Corrosion Foundations Micro-Credential.

## Certified Coatings Inspector (CIP Level 2)

Advance your coatings inspection career with our CIP Level 2 course. Master documenting and performing non-destructive and destructive inspections, as well as inspection of different surfaces and non-liquid coatings. Receive an exam credit toward a Certified Coatings Inspector certification. Two years' experience required for full certification as well as an active Basic Coatings Inspector Certification.

## Cathodic Protection Tester (CP1) Certification

Enter the cathodic protection profession by becoming a Cathodic Protection Tester. Learn to monitor and measure CP systems and discover field personnel functions. Understand galvanic and impressed current systems, and field personnel techniques. Receive a certification exam credit. Six months' experience required for certification.

## Supervisor/Competent Person Training for Deleading and Hazardous Coatings Removal (C3) Course

Master worker safety and environmental compliance. Learn to manage lead exposure, waste disposal, and regulatory adherence. Develop comprehensive risk control programs for your operations.

## Lead/Hazardous Paint Removal Refresher (C5) Course

This 1-day course provides a review of Competent Person duties and responsibilities in working with lead and other hazardous materials encountered in industrial coatings work. It also reviews relevant OSHA and EPA regulations.

## Concrete Coating Inspector (CCI) Level 1 & Level 2 Certifications

The objective of this program is to thoroughly train and certify individuals in the proper methods of inspecting surface preparation and installation of protective coatings on industrial concrete structures and facilities. Both Level 1 and Level 2 will be offered for students to register for respectively.

## Bridge Coatings Inspector (BCI) Level 1 & Level 2 Certifications

This program looks to engage Bridge Coatings Inspectors and ensure an understanding of the fundamentals of surface preparation and application of protective coatings on bridge steel. Other areas of understanding include containment, field safety hazards, and adapting to changing weather conditions. This program also reviews the skills required to inspect new bridge steel painted in the shop, in the field, or maintenance systems applied in the field. Both Level 1 and Level 2 will be offered for students to register for respectively.

## Thermal Spray Applicator (THERMAL APP) Training

This course is designed to train and certify applicators in the application of thermal spray coatings to industrial substrates. A review of surface profiles, application specifications will take place during the course.

# Program Schedule

## Thermal Spray Inspector Training (THERMAL INSP) Course

Master thermal spray inspection with our course. This program covers the inspection of thermal spray from pre-surface preparation through coating application. Learn to navigate NAVSEA standard on thermal spray and Department of Transportation (DOT) standards for flawless coating application. This course is a prerequisite to achieving a Thermal Spray Inspection Specialty.

## Abrasive Blaster Certification (C7)

C7 is designed for contractor personnel who wish to obtain certification, or others who wish to learn about blast cleaning of steel and nonferrous surfaces. It covers principles of surface preparation, surface cleanliness, surface profile, dust and debris control, and abrasives. Candidates are certified through a brief, written certification exam and a practical, hands-on skill assessment.

## Internal Corrosion for Pipelines Level 2 Course

Focuses on electrochemical principles, corrosion monitoring, and mitigation strategies. Participants will learn to assess environments, manage corrosion control programs, and address high-level corrosion issues. After successful completion of the course, you will be eligible to pursue the Senior Internal Corrosion Technologist Certification.

## Spray Application Certification (C12)

This program assesses the skills of sprayers who have experience applying protective coatings with airless/conventional spray in an industrial or marine environment. Candidates are certified through a brief, written certification exam and a practical, hands-on skill assessment. This course is designed to train and certify marine/industrial applicators to operate airless/conventional spray equipment.

## Coating Application Specialist (CAS) Program

This will include our CAS Prep Course, CAS Level 1 Exam, and CAS Level 2 Certification. All of which are for experienced application specialists who have extensive field experience and are looking to meet industry job specifications. Each level of this program as well as the preparation course will be available to register for separately.

## Corrosion Under Insulation Course

Protect your assets from catastrophic failure. Corrosion under insulation (CUI) is a silent threat to chemical, petrochemical, refining, offshore, and marine industries. Learn to prevent, manage, and inspect CUI. Earn a CUI Micro Credential or specialize in CUI Inspection through this course.



# Your photos can inspire others.



Submit your fieldwork  
and training photos  
to AMPP and be part  
of the inspiration!





# CONTRIBUTE, LEARN AND INFLUENCE GLOBAL INDUSTRY CONSENSUS STANDARDS

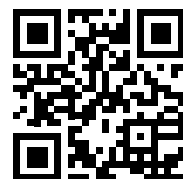
**WE NEED YOUR EXPERTISE! JOIN A STANDARDS COMMITTEE TODAY.**

AMPP Standards Committees establish internationally recognized standards for protective coatings and corrosion prevention and mitigation in many industry sectors, utilizing an ANSI accredited consensus development process. We're looking for subject matter experts (SMEs) interested in joining any of our AMPP Standards Committees. Take the opportunity to:

- Network and collaborate with other SMEs
- Identify emerging processes, materials, and technologies
- Help establish standards that can reduce the cost of corrosion
- Establish standards that promote industry best practices
- Access and learn about new markets
- Share and learn about recent technological updates
- Benefit materials protection
- Develop standards that protect assets, people, and the environment from the effects of corrosion

**No association membership required!**

Interested in any of these committees or starting a new committee for a topic not covered?  
Learn more at: [ampp.org/standards](https://ampp.org/standards)





# HIGH ROLLIN' FOR A HARLEY!



## How the contest works:

1. Attendees will have to visit all High Rollin' for a Harley sponsors' booths to collect a playing card from each sponsor.
2. Once an attendee has collected a card from each of the sponsors, they will submit their form to the location of the Harley on the show floor.
3. The drawing will be held on Wednesday at 4:45 PM.

## Sponsored by:



\*Sponsors as of August 5, 2024

[ace.ampp.org](http://ace.ampp.org)





# Thank you to our AMPP Affiliate Corporate Members

Accurate Corrosion Control

Benjamin Moore & Company

BP Exploration & Production Operating  
Co., Ltd.

BrandSafway

BSS Technologies

Carboline Global Inc.

Corrpro

DeFelsko Corporation

Dunn-Edwards Corporation

Elcometer

Element Materials Technology

Enbridge GTM

Enbridge Pipelines, Inc.

GPI

Hempel North Asia Holding Co., Ltd.

Hill Newport News Shipbuilding

International Paint LLC

International Union of Painters and Allied  
Trades

JT Thorpe & Son, Inc.

KTA-Tator Inc., Ltd.

Kuwait Oil Company

Lake Superior Consulting

Marathon Pipeline LLC

MATCOR, Inc.

National Grid

One Gas Inc.

ONEMESA

ONEOK

Pacific Gas & Electric Co - Bollinger  
Canyon

Plains All American

PPG Coatings (Kunshan) Co., Ltd.

PPG Protective and Marine Coatings

Puget Sound Naval Shipyard (PSNS)

PureHM

Seal for Life Industries

Shanghai Fuchem Innovative Materials Co.,  
Ltd.

Shanghai PT Painting Technology Co., Ltd.

Sherwin-Williams Co.

SHINKO CO., LTD.

Southern California Gas Co.

Surface Technologies Corporation

Targa Resources

TransCanada Pipelines

Troy Construction, LLC

Turner Industries Group, LLC

\*Members as of September 15, 2024

# The Exposition

## Expo Schedule

Events are held during the day's scheduled exhibition hours unless otherwise noted.

**Monday, April 7** — Grand Opening\* ..... 5 to 7:30 p.m.  
 AMPP Education Experience..... 5 to 7:30 p.m.  
 Silent Auction..... 5 to 7:30 p.m.  
 Student Poster Session ..... Staffed 5 to 7:30 p.m.

**Tuesday, April 8**..... 9 a.m. to 5 p.m. (unopposed hours 9 to 10 a.m.)  
 AMPP Education Experience..... 9 a.m. to 5 p.m.  
 Silent Auction..... 9 a.m. to 5 p.m.  
 AMPPiTheaters..... 9:30 a.m. to 5 p.m.  
 Student Poster Session ..... Staffed noon to 1 p.m.

**Wednesday, April 9**..... 9 a.m. to 5 p.m.  
 AMPP Education Experience..... 9 a.m. to 5 p.m.  
 Silent Auction ..... 9 a.m. to 4 p.m.  
 AMPPiTheaters..... 9:30 a.m. to 5 p.m.  
 EMERG Student Camp ..... 10 a.m. to 3:30 p.m.  
 Student Poster Session Awards Ceremony..... 12:30 p.m.  
 Harley Giveaway..... 4:45 p.m.

\*Due to laws/liabilities, no one under the age of 18 will be given access to the Exhibit Hall during the Expo Grand Opening on Monday, April 7.



## DID YOU KNOW....

The New AMPP YouTube channel brings you the latest news and information about corrosion, coatings, asset protection, AMPP education, certification, conferences, events and much more!

[youtube.com/c/AMPPorg](https://youtube.com/c/AMPPorg)

# Exposition Events

## AMPPiTheaters

The newly expanded AMPPiTheaters will give conference attendees access to a variety of unique presentations on materials protection through corrosion control and protective coatings. This mini auditorium in the exhibit hall will feature industry leaders and AMPP staff who will facilitate interactive discussions on infrastructure and asset protection that are relatable to your own field of expertise. See the AMPP Annual Conference + Expo website ([ace.ampp.org](http://ace.ampp.org)) and final program for more information and theater assignments.

## Celebrate Corrosion Innovation | Materials Performance Corrosion Innovation of the Year Awards Presentation

The 2025 Materials Performance (MP) Corrosion Innovation of the Year Awards will be presented just prior to the Expo Grand Opening. Don't miss your chance to celebrate the innovations that are shaping the future of corrosion prevention.

## AMPP Education Experience—Hands-on Training Pavilion

Elevate your corrosion career at the AMPP Education Experience! Dive into hands-on learning with coatings inspection, cathodic protection, and beyond. Experiment, explore, and expand your knowledge with our expert instructors. From cathodic protection simulations to coating inspection labs, we've got you covered. Discover your next career move and access training resources with our expert staff on hand to answer your questions.

## Dairyland Lounge

Take a break at the Dairyland Lounge (located between aisles 900 and 1100) and pick up their always popular souvenir give-away. While getting your give-away, take some time to learn how Dairyland is working to make the world a safer place through their Live Engaged initiative.

Sponsored by:



## “High Rollin’ for a Harley” Giveaway

AMPP is giving away a Harley-Davidson and this is YOUR chance to win! Here's how: visit each “High Rollin’ for a Harley” sponsor during the AMPP Annual Conference + Expo to collect a playing card from each sponsor's booth. Once all playing cards have been collected, hightail it over to the Harley displayed on the exhibit hall floor and complete the submission card to enter to win. Winner will be announced Wednesday in the exhibit hall.

Sponsored by:





# Exposition Events

This section features Students/Young Professionals (SYP) Activities

## EMERG Student Camp

A day-long camp for local high school students will be held in conjunction with AMPP 2025. Local students from Nashville-area high schools will participate in hands-on, coatings and corrosion-related activities, and using cKits. Volunteers are needed. To get involved, contact Brandy Adams at +1 281-228-6478 or [brandy.adams@ampp.org](mailto:brandy.adams@ampp.org).

## Student Poster Display

The AMPP Research Program Committee sponsors a Student Poster Session to encourage student involvement in the field of coatings and corrosion technology. Posters will be on display in the exhibit hall throughout exhibit hours with displays staffed by students on Monday from 5 to 7:30 p.m. and Tuesday from noon to 1 p.m. Winners will be announced on Wednesday at 12:30 p.m.

Sponsored by:

**CORROSION**  
The Journal of Science & Engineering





# AMPP Standards Drive Industry Best Practices

## Standards Fill the Need for Consistent Quality

AMPP standards respond to the needs of industries, with a focus on the impact of emerging technologies, new materials and capabilities, and regulatory requirements. Standards set limits, establish procedures, promote consistency and improvement of industrial processes.



## AMPP offers many standards by industry sector:

- Cathodic Protection
- Chemicals & Inhibitors
- Corrosion Monitoring & Control
- Materials Selection & Design
- Defense & Aerospace
- Maritime
- Highways & Bridges
- Power & Utilities
- Oil & Gas
- Rail & Land Transportation
- Protective Coatings
- Research & Testing
- Tanks & Pipelines
- Water & Wastewater
- Mining & Mineral Processing

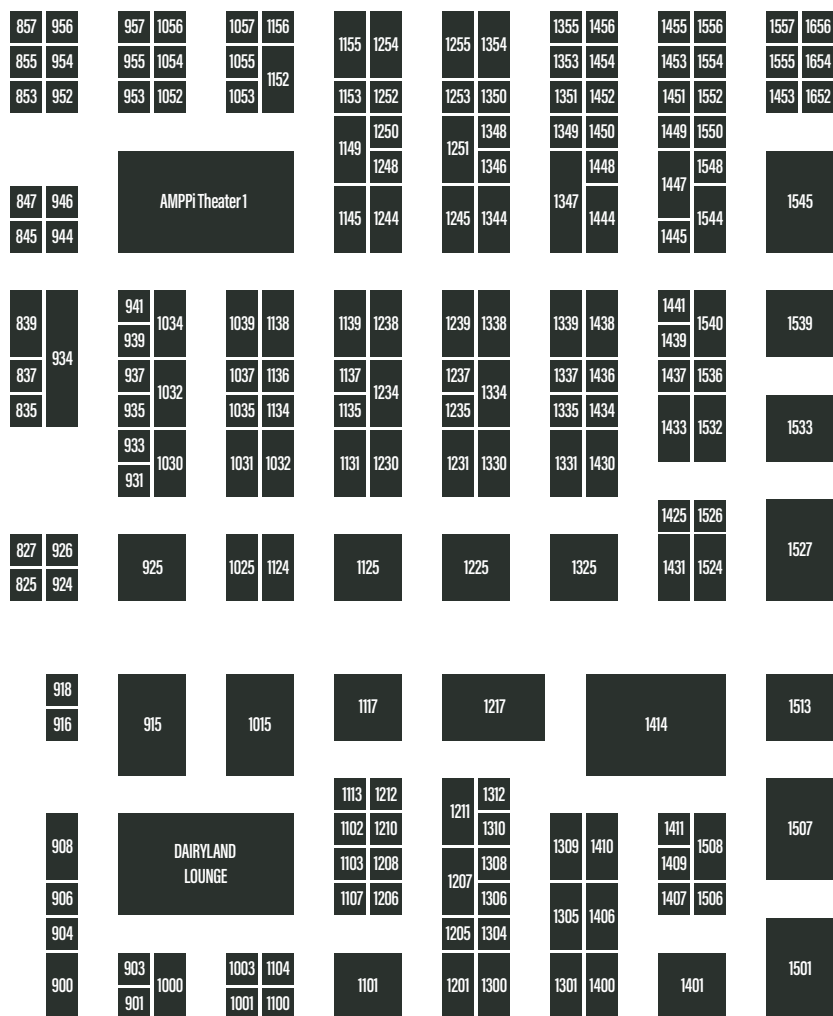
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# Exposition Floor Plan



**ANCE**

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Exhibitors as of September 15, 2024

 10X Engineered Materials	Atotech/An MKS Brand	 Cathodic Protection Co., Ltd.
 1Priority	AUDUBON	Cathodic Technology
A.W. Chesterton Company	 Automa s.r.l.	Cathtect USA Inc.
Abrasives, Inc.	AWWA	CerAnode Technologies—Div. of APS Materials, Inc
Access Plug Flange, LLC	 Axess-Corrosion, Inc.	Champion Corrosion Products, Inc.
 Accurate Corrosion Control Inc	Axios Industrial Maintenance Contractors	 Chapman Engineering
Acuren	Axxiom Manufacturing	ClampOn
 Advance Products and Systems	AZMET Corp	Clemco Industries
AIT Coatings	Bac Corrosion Control A/S	CM Beasy
AkzoNobel	 BAC Corrosion Control Ltd.	Coatings Solutions, LLC
 Alleima	 Baker Hughes	 Concrete Sealants, Inc
 Allen Blasting and Coating	 Barton International	 Corr-Defense
 Allied Corrosion Industries, Inc	Becht	 Corrocoat USA
Allredi	Bellemare Abrasives & Minerals	CORROLYTICS
Altor LLC	 Belzona	Corrosion Exchange, Inc
 American Carbon Company	Berkeley Springs Instruments LLC	 Corrosion Innovations, LLC
 American Innovations	Best-Tec	Corrosion Service Company Limited
American Society for Nondestructive Testing	 BGH Edelstahlwerke GmbH	CorrosionRADAR
AMPP Media	 BK Corrosion	Cortec Corporation
Anotec Industries	 BlastOne International	Cortest, Inc
 Apache Industrial Services	BobbyJack Pipe Lifts, LLC	Cosasco
APV Engineered Coatings	Borin Manufacturing, Inc.	CSI Services, Inc.
ARK Engineering & Technical Services, Inc.	  BrandSafway	 CSNRI
Arkema Inc.	Brown Corrosion Services Inc	 Dairyland Electrical Industries
Armacell	 BSS Technologies	 Dampney Company
Assured Testing Services	 Bullard	 De Nora Tech, LLC
Atlantic Design Inc.	Camfil Power Systems	Deepwater Corrosion Services
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 DNV

DocuPaint (Industrial Inspection Group  
Owned)

Drinkwater Products

Droycon Bioconcepts Inc.

 E2G|The Equity Engineering Group,  
Inc.

Eclipse Surface Technologies

ecoFINISH Coatings

Eddyfi Technologies

EIU, LLC

 Elcometer


 Element Materials Technology

 ELSYCA NV

Emerson

EMPIT

 Engineering Director, Inc.

 ENTRUST Solutions Group (EN  
Engineering)

 Ervin Industries, Inc.


E-Z Line Pipe Support Co. LLC.

 Farwest Corrosion Control Company

Flexitallic US, LLC

FlexSteel Pipeline Technologies

FURS composites

 Galvotec Alloys, Inc. / Galvotec  
Corrosion Services

Gamry Instruments

 Gecko Robotics

General Corrosion Corporation

GEOMAGIC Utility Solutions Inc.

GMA Garnet USA Corp

GMC Electrical, Inc.



 GPT Industries

Graco, Inc.

Grand Isle Shipyard, LLC

Green Diamond Performance Materials

Greener Blast Technologies, Inc.

  Greenman-Pedersen, Inc. (GPI)

GUL - Guided Ultrasonics Ltd.

GVS RPB

Harsco Environmental

Hempel USA

Highridge Corrosion Services

HippWrap Containment

Holcim Solutions and Products US LLC

Honest Horse China Holding Limited

Hubbell

IESG Solutions, Inc.

InduMar Products, Inc.

Induron

Industrial Vacuum Equipment Corp.

Insulation Snakes

 Integrity Assessment Group

Integrity Products & Supplies Inc.

 Integrity Solutions Field Services, Inc.

International/Interprovincial Corrosion  
Control Co. Ltd. (ICCC)

IRT Integrated Rectifier Technologies  
Inc.

  IUPAT

 Jennings Anodes USA

Jetstream of Houston, LLP

Jotun Paints Inc.

 PK Technology

 Kennametal Inc

Kleen Blast Abrasives Warehouse

  KTA-Tator, Inc.

L.A.B. Industries, a division of the  
Louisiana Association for the Blind

LAIKEN S.A.

 Lake Superior Consulting

Langtry Blast Technologies Inc.

LBBC Baskerville

Lift-Off Pipe Supports

Lindsay

 Loresco Inc.

Luna Labs USA

 Luoyang Hongfeng Abrasives Co.,Ltd.

 M. C. Miller Company, Inc.

MAG Specialties Inc.

Marvel Industrial Coatings

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MES – Nationwide Rentals & Supplies

MESA and Bass Engineering

  Metal Samples

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 Mineral Tech	Polybol SAS	 SPY Inspection Equipment
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Montipower Americas Inc	 Polyguard Products	Stuart Steel Protection, LLC
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Nalco Water, an Ecolab Company	  PPG	Surviv Field Services
National Trailer Service	 PSS Industrial Group	Swiss Steel USA
NCP Coatings	Qingdao Rising-Sun Shine Ship Engineering Technique Co., Ltd	Sypris Technologies - Tube Turns
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 Nextec, Inc.	Qnergy	Tarps Manufacturing
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 North American Survey Corporation	  Rapid Prep	 Tesi Group LLC
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Norton Corrosion	Rema Tip Top	 Texas Compression, LLC
NOV	Roberts Corrosion Services, LLC	The Phased Array Company, LLC
Novatek Corporation	 RockGuard by Industrial Fabrics	The Swain Meter Company
OMC International, LLC	RockRidge Abrasives	  Tinker & Razor
OmniMetrix LLC	 Rockwool Technical Insulation	Tip Tig USA
One Garnet Group	 Rust-Oleum	 Tnemec Company Inc.
 Opti-Blast	Rysco International Inc	Trenton Corporation
Outokumpu	Sauereisen	TruAbrasives by Strategic Materials, Inc.
Ovolifts	Sciaps	TruQC, LLC
P.A., Inc.	  Seal for Life Industries	TWRS, LLC.
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Vulkan Blast Shot Technology

Wasser Coatings

WBI Energy Corrosion Services

Western Falcon LLC

Western Technology

 Winoa USA

WIWA LLC

Wolverine Coatings Corporation

WrapMaster, Inc.

Zerust Oil & Gas

 Zhejiang Yuxi Corrosion Control Corporation

Zibo Taa Metal Technology Co., Ltd.

ZincKote LLC

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