

**Q-Lab Corporation**  
800 Canterbury Road  
Westlake, Ohio 44145 USA  
Tel: +1-440-835-8700  
Fax: +1-440-835-8738  
www.q-lab.com



## **Atmospheric Corrosion (AC101) Seminar**

Thursday, 3rd October 2024 at Q-Lab Headquarters Office

8:00 – 8:30 am EDT	Registration with Coffee, Pastries, Snacks, & Refreshments
8:30 – 8:45 am	Introductions
<b>8:45 – 9:00 am</b>	<b>Facility Tour</b>
<b>9:00 – 10:30 am</b>	<b>Part 1: Forces of Weathering</b> Thermodynamics & definitions of Corrosion Chemistry of Corrosion Forms of Atmospheric Corrosion Mitigation of Corrosion
10:30 – 10:45 am	Q&A and Coffee Break
<b>10:45 – 11:45 am</b>	<b>Part 2: Characterizing Corrosive Environments &amp; Outdoor Corrosion Testing</b> Key factors in outdoor corrosion: water, oxygen, and ionic species Outdoor corrosion testing Characterization of outdoor corrosion environments
11:45 am – 12:45 pm	Q&A and Lunch/Free Time
<b>12:45 – 2:00 pm</b>	<b>Part 3: Laboratory Atmospheric Corrosion Test Methods</b> Continuous Salt Spray tests Early Wet/Dry cyclic testing: Prohesion First Generation Cyclic Automotive Tests Relative humidity, deliquescence, and correlation to outdoor testing Modern Cyclic Corrosion test methods Controlling tester environments in modern corrosion testing
2:00 – 2:15 pm	Q&A and Coffee Break
<b>2:15 – 3:30 pm</b>	<b>Part 4: Corrosion Test Monitoring &amp; Specimen Evaluation</b> Test Monitoring: Mass loss coupons, Pluviometry Independent RH and temperature verification Validating chamber performance Performing post-test corrosion evaluations
3:30 – 3:45 pm	Summary & Conclusions
<b>3:45 – 5:00 pm</b>	<b>Q&amp;A + Demos in Showroom. All hands-on deck!</b>