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Atmospheric Corrosion Testing 101 Seminar

Thursday, 6th October 2022 at Q-Lab Headquarters Office

8:00 – 8:30am EDT	Registration with Coffee, Pastries, Snacks & Refreshments
8:30 – 8:45am	Introductions
8:45 – 10:15am	Part 1: Corrosion Basics
	 Thermodynamics & definitions of Corrosion
	Chemistry of Corrosion
	Forms of Atmospheric Corrosion
	Mitigation of Corrosion
10:15 – 10:25am	Q&A
10:25 – 10:40am	Coffee Break
10:40 – 11:50am	Part 2: Characterizing Corrosive Environments &
	Outdoor Corrosion Testing
	• Key factors in outdoor corrosion: water, oxygen, and ionic species
	Outdoor corrosion testing
	Characterization of outdoor corrosion environments
11:50 – 12:00pm	Q&A
12:00 – 12:45pm	Lunch/Free Time
12:45 – 12:00pm	Part 3: Laboratory Atmospheric Corrosion Test Methods
	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 – 2:10pm	Q&A
2:10 – 2:25pm	Coffee Break
2:25 – 3:30pm	Part 4: Corrosion Test Monitoring & Specimen Evaluation
	• Test Monitoring: Mass loss coupons, Pluviometry, and Independent RH
	and temperature verification
	Validating chamber performance
	 Performing post-test corrosion evaluations
3:30 – 3:40pm	Q&A
3:40 – 4:30pm	Summary & Conclusions
4:30 – 5:00pm	Q-Lab Facility tour and questions