



AUTOMOTIVE CORROSION Symposium

AGENDA

Automotive Corrosion Symposium

March 31 to April 1, 2022 • Detroit, MI, United States

Time	Speaker	Title
Thursday, March 31, 2022		
7:30	Registration/Breakfast	
8:25	Mr. James Dante	Welcoming Remarks
8:30	Dr. Alan Taub	Challenges to Prevent Corrosion Issues in Mixed-Material Vehicle Structures
9:30	Break	
9:45	Dr. Jichao Li	Cu behaviors in CALP process, post heat treatment and thin film pretreatment and its impact on filiform corrosion of high-Cu 6xxx Aluminum Alloys Panels
10:15	Dr. Alexander Brand	In Situ Quantitative Measurement of Corrosion on the Nanoscale by Quantitative Phase Microscopy (QPM)
10:45	Ms. Emily McCloy	Evaluation of the Corrosion Characteristics of SLM AlSi10Mg Welded with ER5356 and ER4047 Filler Wire
11:15	Ms. Katrina Catledge	Understanding the Effect of Anodic Polarization on SCC Resistance of Automotive AA6111-T8 to Simulate Coupling with CFRP
11:45	Lunch	
1:00	Mr. Ulrich Haus	Crevice Corrosion of Aluminum Enclosures at Sealing Interfaces
1:30	Ms. Priyanka Adapala	Use of Laboratory Accelerated Cyclic Corrosion Test (CETP-00.00. L-467) for Predicting On-Road Corrosion Behavior of AA6xxx Coupled to Carbon Fiber Reinforced Plastics
2:00	Dr. Raghu Srinivasan	The Mitigation of Galvanic Corrosion between Mechanically Coupled Aluminum and Carbon-Fiber Reinforced Polymer Matrix Composites
2:30	Mr. Joshua James	The Complex Synergy of Delayed Cracking Failures in Transmission Gear Assemblies
3:00	Break	
3:15	Dr. Fritz Friedersdorf	Measurement of Environmental Parameters and Corrosivity for Monitoring Outdoor Exposure Sites and Laboratory Corrosion Tests
3:45	Dr. Karsten Lessmann	Corrosion Protection in Electric Vehicles
4:15	Dr. Joshua Abbott	Electrocoat Challenges for Battery Electric Vehicles
4:45	Dr. David Stone	Expanded Cure Capabilities of Electrocoat to Resolve EV Challenges
5:15	Adjourn	
5:30	Networking Event at the Courtyard Detroit Downtown	

Keynote

Networking

Time	Speaker	Title
Friday, April 1, 2022		
7:30	Breakfast	
8:25	Mr. James Dante	Welcoming Remarks
8:30	Mr. Michael Ostermiller	Automotive Corrosion Prevention and Assessment – Moving Toward Virtual
9:30	Break	
9:45	Dr. Homero Castaneda	Exploring New Methods of Corrosion Assessment for Multifunctional Coatings Based on Deterministic-Probabilistic Modeling for Automotive Applications
10:15	Dr. Javier Esquivel	Corrosion Model of a Zinc-Iron Couple using Rotating Disc Electrode Electrochemical Parameters to Simulate Automotive Environmental Conditions
10:45	Dr. Alan Rose	Using Computational Corrosion Analysis to Deploy Corrosion Prevention & Control in Automotive Design
11:15	Ms. Leila Saberi	Development of a Computational Framework for Prediction of Galvanic Corrosion for Automotive Applications
11:45	Mr. James Dante	Verification of Mixed Metal Corrosion Modeling Approaches
12:30	Adjourn	

Keynote

Networking



SOUTHWEST RESEARCH INSTITUTE

