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Introduction to Weathering (W101) Seminar

Wednesday, 12th March 2025 at Q-Lab Europe - Bolton Office

09:00 - 09:30	Registration with Coffee & Refreshments
09:30 - 09:40	Introductions
09:40 — 11:00	 Part 1: Forces of Weathering Sunlight: spectral irradiance and material sensitivity Heat: temperature and thermal cycling Water: relative humidity, dew, and rainfall
11:00 - 11:15	Coffee Break
11:15 – 12:00	 Part 2: Outdoor Weathering Benchmark outdoor test locations: Florida & Arizona Natural outdoor weathering testing Black box, interior automotive material, and behind-glass exposures Natural sunlight concentrators
12:00 – 13:00	Lunch
13:00 – 14:15	Part 3: Accelerated Laboratory Weathering Xenon Arc Light delivery: Xenon arc lamps, optical filters, and irradiance control Environment simulation: black panel, chamber air, humidity, water spray Fluorescent UV Weathering Light delivery: fluorescent UV choice of lamps and irradiance control Environment simulation: black panel, condensation
14:15 - 14:30	Coffee Break
14:30 - 15:45	 Part 4: Developing Weathering Testing Programs Why Test? Factors affecting correlation between natural and accelerated weathering Fluorescent UV and xenon-arc comparison Weathering test program development Weathering case studies

Summary & Conclusions

15:45 - 16:15