

	MONDAY: MAY 6, 2024			
7:00 AM	TFB: Digitalization in the Coating Industry – Does It (Already) Improve Production and Product? <i>Holger Gerdes (Fraunhofer-IST) / Thomas Schötte (Plassis GmbH)</i> International Ballroom North TFB: Aligning Deposition Process Requirements with Vacuum System Layout and Design <i>Wolfgang Decker (Kurt J. Lesker Company) / Jimmy Haight (Semikore)</i> International Ballroom North TFB: Optical Coating Design <i>Robert Sargent (Vinci Solutions Inc.) / Ron Willey (Willey Optical Consultants)</i> International Ballroom North TFB: Advanced Deposition Coating Hardware <i>Frank Papa (GP Plasma, LLC) / Ralf Bandorf (Fraunhofer-IST)</i> International Ballroom North TFB: Coatings for Thin Film Photovoltaics <i>Volker Stittinger (Fraunhofer-IST) / Ric Shimshock (MLD Technologies, LLC)</i> International Ballroom North TFB: CVD and ALD Processing <i>Matt Weiner (ForgeNano) / Lenka Zupkova (Masaryk University)</i> International Ballroom North TFB: Thin Film Sensors <i>Jason Hrebik (Kurt J. Lesker Company) / Binbin Wang (University of Oklahoma)</i> International Ballroom North TFB: Ultra-Thin Flexible Glass - The Next Big Thing? <i>Manuela Jungähnel (Fraunhofer-ASSI/IZM) / Jörg Neidhardt (Fraunhofer-FEP)</i> International Ballroom North TFB: Supply Chains, Manufacturing Processes, and sustainability for Materials Enabling PVD Processes <i>Christian Linke, Paul Radnik (Plansee) / David Sanchez (Materion) / Christos Parnagiadis (Avulux) / Armin Keller (EvoChem)</i> International Ballroom North			
8:30 AM				
8:30 AM	10 Minute Passing Break			
8:40 AM	SVC Annual Business Meeting (30 minutes) Continental B Ballroom			
9:10 AM	10 Minute Passing Break			
9:20 AM	10 Minute Conference Introduction (Program Director) - Continental B Ballroom			
9:30 AM	Keynote - Continental B Ballroom Sustainability Inspired Design of HIPIMS Deposited Coating Materials (Jochen Schneider - RWTH Aachen University, Germany)			
10:10 AM	20 Minute Refreshment Break			
10:30 AM	Continental A Ballroom	Continental B Ballroom	Continental C Ballroom	Buckingham
10:30 AM	HIPIMS Panel Discussion and Workshop (2 hrs) "HIPIMS Success Stories"	Plasma Processing (PP1v1) Plasma-Enhanced Chemical Film Conversion (R. Mahan Sarikaya - University of Illinois Urbana-Champaign)	Process Monitoring, Control, and Automation (PC1) Understanding Convergence and Steady-State Conditions During Feedback Control in Reactive Magnetron Sputtering (Dorja Van Bever - Ghent University)	Large Area (LT1) Utilizing Large Area Sputtering to Overcome Cost and Yield Barriers for Scratch-Resistant Anti-Reflective Coatings (Patrick Morse - Intevac Inc.)
10:50 AM		Plasma Processing (PP1) A Plasma-Based Annealing Process for the Production of Al ₂ O ₃ Layers (Scott Wilson - Naval Research Laboratory)	Process Monitoring, Control, and Automation (PC2) Rapid Titanium Nitride Process Development on a Production PVD System Using a Plasma Emission Monitor (Nick Frenser - KOF Technologies)	Large Area (LT2) Printable Masking for Large Area Magnetron Sputtering Process (Ankney Ashipov - Bühler Altemus GmbH)
11:10 AM		Plasma Processing (PP2) Exploring Shallow Depth Profiles of Plasma-Treated Polymer Surfaces (Sébastien Vin Nica - Leibniz-Institut für Polymerforschung Dresden e.V.)	Process Monitoring, Control, and Automation (PC3) Diagnostic Solutions to Common Issues in Vacuum Coating and Plasma Processing (Angeles McCarter - Impedans Ltd.)	Large Area (LT2v1) The Practical Considerations of RF Sputtering in Large Area Manufacturing (Draoua Garcia - Advanced Energy Industries, Inc.)
11:30 AM		Plasma Processing (PP2) Hybrid Polyhedral Oligomeric Silsesquioxane (POSS) Films Prepared by Ion Beam Assisted Evaporation (Ding Zhibiao - Polytechnique Montreal)	Process Monitoring, Control, and Automation (PC4) Residual Gas Analysis for Process Monitoring (Edward Ho - Pfeiffer Vacuum Inc.)	Large Area (LT3) Arc Handling and Managing Arc Energies During Deposition of Insulating Films: Comparison Between Power Delivery Modes (Eloyar Rame - Advanced Energy Industries, Inc.)
11:50 AM		Plasma Processing (PP3) Which Processes Really Matter in Industrial HIPIMS? Understanding a PVD Process Through Global Plasma Modelling (Britovne Tomanková - Plasmasolve s.r.o.)	Process Monitoring, Control, and Automation (PC5) Cutting-Edge Real-Time OES/PEM Innovations for Key Industry Advancements (Martyne Audouin - Nova Fabric Ltd.)	Large Area (LT4) Highly Selective Multilayer Low-ε Coatings on Float Glass (Ulrich Er - SISECOAG)
12:10 PM		Plasma Processing (PP4) Rapid Process Prototyping and Upscaling Using the ASC Mini-Coater Platform (John Chamber - ASC Plasma Technology Solutions)	Process Monitoring, Control, and Automation (PC6) Fast Kinetic Modelling of Magnetron Sputtering (Daniel Maltz - Tech-X Corporation)	Large Area (LT5) Protecting Cork and Rubber from Mechanical Wear and UV Radiation through Coatings Produced by Vacuum Techniques (Shigekazu Tiso - University of Meiji)
12:30 PM	HIPIMS (HIP1v1) The Use of HIPIMS in an Industrial Setting (Jon Peggitt - Apcores Neobonding Technologies)	Plasma Processing (PP5) Fast Kinetic Modelling of Magnetron Sputtering (Daniel Maltz - Tech-X Corporation)	Process Monitoring, Control, and Automation (PC5) Cutting-Edge Real-Time OES/PEM Innovations for Key Industry Advancements (Martyne Audouin - Nova Fabric Ltd.)	Large Area (LT5) Scalable Manufacturing Technology for Mobile Signal Penetrating Low-ε Windows (Guowen Ding - Labforevention Corporation)
12:50 PM		Plasma Processing (PP6) Fast Kinetic Modelling of Magnetron Sputtering (Daniel Maltz - Tech-X Corporation)	Process Monitoring, Control, and Automation (PC6) Advancing Vacuum Arc Evaporation Processes: In-situ Deposition Rate Measurement and Real-time Thickness Estimation for Enhanced Precision and Control (Gün-Hwan Lee - KIMS)	Large Area (LT6) Protecting Cork and Rubber from Mechanical Wear and UV Radiation through Coatings Produced by Vacuum Techniques (Shigekazu Tiso - University of Meiji)
1:10 PM	10 Minute Passing Break			
1:20 PM	Don Mattox Tutorial - Continental B Ballroom From Thin Films to Airplanes: Engineering Leadership in the Fulfillment of Serving as Many People as Possible (Marvi Matos Rodriguez - Boeing Corporation, Seattle, WA)			
2:00 PM	Continental A Ballroom	Continental B Ballroom	Continental C Ballroom	Buckingham
2:10 PM	HIPIMS (HP1) HIPIMS Coatings for Next-Generation Cutting Tools (Christoph Schiller - CamCon AG)	Atomic Layer Processing (AL1) High-Quality and High-Deposition Rate Atomic Layer Deposition of NiO and TiN for Superconducting Quantum Applications (Pam Knapp - Oxford Instruments Plasma Technology)	Coatings and Processes for Biomedical Applications (BT1v1) A Healthcare's Guide to Antimicrobial Thin Film Coatings (Gregory Caputo - Rowan University)	Large Area (LT7) Spatial Plasma Enabled Atomic Layer Deposition for Large Area Substrates (Eric Delley - Lohar Applied Technology)
2:30 PM	HIPIMS (HP2) A Comprehensive Study of HIPIMS Cathodic Oxide and Microstructural Performance: From Edge Preparation to Micro-Machining Tests (Juan Fernando - NANOCENERGY SL)	Atomic Layer Processing (AL2) Atomic Layer Processing Approaches for Advanced Thin Film Heterojunctions (Virginia Wheeler - Naval Research Laboratory)	Coatings and Processes for Biomedical Applications (BT2) Scaling of PVD Coating Defects by 3-D ALD Layers for Orthopedic Implant Applications (Elmar Böbel - University of New Saß)	Large Area (LT8) Reactive Gas Ionizers - For Next-Generation Thin Film Coatings (David Stevenson - Ampres, Inc.)
2:50 PM	HIPIMS (HP3) Optimization and Application of HIPIMS Cathodic Oxide (HfO ₂ /N ₂) Thin Films in MOS Structures (Robert Minczyński - Warsaw University of Technology)	Atomic Layer Processing (AL3) Novel Fiber-Optic Sensors for Advanced ALD and Plasma Systems (Tim Dobbie - Advanced Energy Industries, Inc.)	Coatings and Processes for Biomedical Applications (BT3) Ultrathin TiO ₂ ALD Coatings Enhance Properties of Biomaterials Used in Medicine (Paul Zapp - University of Portland)	Large Area (LT9) Effect of Pulse Shape on Reactive Sputtering Process and Film Properties: Comparison Between Sin-Wave, Square-Wave and Dynamic Resonance Pulsing Modes (Eloyar Rame - Advanced Energy Industries, Inc.)
3:10 PM	HIPIMS (HP4) Yttrium Oxynitride Thin Films: Synthesis, Optical, and Photochromic Properties (Martina Zublin - Institute of Solid State Physics)	Atomic Layer Processing (AL4) Tailored Atomic Layer Deposition of Transparent Conductive Oxides Using Supercycles (Pieter Brinja - FOM AdvanGrowth GmbH)	Coatings and Processes for Biomedical Applications (BT4) Antimicrobial Protection for Touch Surfaces to Reduce Hospital-Associated Infections (Lara Martin-Blaz - Genesys Ltd.)	Large Area (LT10) Simulating the Effect of Pulse Shape and Arcs Placement in Large Area Coaters - Correlating Plasma Dynamics with Film Growth (Adam Obrusnik - Plasmasolve s.r.o.)
3:30 PM	HIPIMS (HP5) Heterogeneous Graphene on Silicon for Thermal Spreading (Chi-Fa Hsu - Feng Chia University)	Atomic Layer Processing (AL5) Protection of Electrochemically Active Surfaces by Ultrathin Barrier Layers Using Atomic Layer Deposition (Paul Zapp - University of Portland)	Coatings and Processes for Biomedical Applications (BT5) Synthesis and Characterization of Coatings for Bactericidal Applications (Jeffrey Hettinger - Rowan University)	Large Area (LT11) Versa C. Rubin Observatory Final Coating Results Over the Main Telescope Mirror (Tomislav Vucina - AURA / Vera C. Rubin Observatory)
3:40 PM	HIPIMS (HP6) Multilayer Ti/TiN Structures Deposited via HIPIMS on Zn60 Mg Alloy to Control its Degradation Rate (Adrian Ciocan - Public University of Navarra)	Atomic Layer Processing (AL6) Optimizing Precursor Utilization for Spatial ALD in High Surface Area Substrates (Paul Poehl - SparkNano B.V.)	Coatings and Processes for Biomedical Applications (BT6) Raman Cathode Coatings Deposited with HIPIMS for Orthopedic Applications (Gregory Taylor - Lawrence Livermore National Laboratory)	
3:50 PM	HIPIMS (HP7) Advanced PVD Coatings for the Decorative Field: New Colors and Improved Film Properties (Francesca Marchetti - Proton Surface Technologies SRL)	Atomic Layer Processing (AL7) Low-Cost, Ultra-Barrier Coating via Spatial, Plasma-Enabled ALD with Simultaneous Precursor Delivery (Bryan Dunforth - Lotus Applied Technology)	Coatings and Processes for Biomedical Applications (BT7) Characterization of Reactively Sputtered Platinum Group Metal Oxide Coatings for Biomedical Applications (Jeffrey Hettinger - Rowan University)	
5:30 PM	HIPIMS (HP10) Tuning Residual Stress for Enhanced Tribological Performance of TiAlN Coatings Prepared by HIPIMS in Cylindrical Magnetron Configuration (Ludvik Martini - Polytechnique Montreal)	Atomic Layer Processing (AL8) Enhancing Heavy Metal Ion Removal: Thiol-Functionalized Adsorbents via Atomic Layer Deposition and Layer Phase Separation (Nepa Rosnyev - Argentine National Laboratory)	Coatings and Processes for Biomedical Applications (BT)	
5:50 PM	Dinner Break			
8:00 PM	Casino Night Fundraiser (International Ballroom South) 8:00 - 10:00 PM			
10:00 PM				

	WEDNESDAY: MAY 8, 2024			
5:30 AM	SVC Foundation 5K Fun Run (Hilton Lobby meet-up)			
7:00 AM	TAC Breakfast Meetings: 7:00 AM - 8:30 AM International Ballroom North-South Optical Coatings TAC Breakfast Protective, Tribological, and Decorative Coatings TAC Breakfast Large Area Coatings TAC Breakfast WebTech Roll-to-Roll Coatings for High-End Applications TAC Breakfast Emerging and Translational Technologies and Applications TAC Breakfast Plasma Processing TAC Breakfast Atomic Layer Processing TAC Breakfast HIPIMS TAC Breakfast High-Powered Electron Beam Technology TAC Breakfast Thin Film Contributions for the Hydrogen Economy TAC Breakfast Coatings for Energy Conversion and Related Processes TAC Breakfast Coatings and Processes for Biomedical Applications TAC Breakfast Thin Film Sensors TAC Breakfast Process Monitoring, Control and Automation TAC Breakfast Digital Transformation of Industrial Deposition Processes TAC Breakfast			
8:30 AM	EXHIBIT HALL OPEN: 10:00 AM - 4:00 PM Exhibitor Meeting (closed session) 9:00 AM - 10:00 AM 10 Minute Passing Break			
8:30 AM	Keynote - Continental B Ballroom Why Your AI Effort Failed... and How to Engineer Success (Sean McGregor - Underwriters Laboratories, Rancho Mission Viejo, CA)			
8:40 AM				
9:20 AM	10 Minute Passing Break			
9:30 AM	Continental A Ballroom Optical Coatings (OTinv1) A Collection of Interesting Coating Challenges (and Solutions!) (Leo Baldwin - Meta)	Continental B Ballroom Protective, Tribological and Decorative Coatings (TT1) Creating a Digital Twin and How It Helps to Speed Up Your Coating Development (Nick Bierwisch - SID) Protective, Tribological and Decorative Coatings (TT2) HIPIMS Deposited AlSiN Films: Sc Dependent Phase Transition (Anas Ghailane - Avaluxe Coating Technologies GmbH & co KG)	Continental C Ballroom Emerging and Translational Technologies and Applications (ET1) Miniaturized rTMS Coil Powered by SCR High Current Supply (Han-Ping Hung - Feng Chia University) Emerging and Translational Technologies and Applications (ET2) Driving Innovation: Leveraging NSF Industry/University Cooperative Research Centers for Successful Start-Up Launches (Ray Lewandowski - Power Roll Ltd)	Buckingham Closed Door Exhibitor Meeting in Salon C/D Exhibitor Innovator Showcase (EIS11) New Product Release: FTE (Full Target Encapsulation) Shutters (Jason Hrebik - Kurt J. Lesker Company)
10:10 AM	Optical Coatings (OT1) Design and Fabrication of Multilayer Metallo-Dielectric Transmission Filters with an Anisotropic Transfer Matrix Method Analysis (Lirong Sun - Air Force Research Laboratory)	Protective, Tribological and Decorative Coatings (TT3) Can the Solid Particle Erosion Literature Provide Quantitative Predictions of Erosion Performance? A Machine Learning Analysis (Stephen Brown - Polytechnique Montréal)	Emerging and Translational Technologies and Applications (ET3) Open Innovation for Thin Film Vacuum Coating in Europe (André Wahl - KETMarket GmbH)	Exhibitor Innovator Showcase (EIS12) Intelleg [®] S Ei - Long life-time EIES Deposition Rate Controller (Martynas Audronis - Nova Fabrica Ltd.)
10:30 AM	20 Minute Refreshment Break			
10:50 AM	Optical Coatings (OT2) Temperature-Dependent In-Situ Analysis to Enhance the Performance of Optical Coatings in Gravitational Wave Detectors (Michele Magnozzi - Università di Genova)	Protective, Tribological and Decorative Coatings (TT4) Tribological Behavior of Nb-Doped Oxynitride for High Temperature Applications (Sebastian Martinez-Garcia - Centro de Ingeniería y Desarrollo Industrial CIDESI)	Emerging and Translational Technologies and Applications (ETinv1) FlexGlass Pilotlab – An Innovative Platform for Emerging Use Cases (Jörg Neidhardt - Fraunhofer FEP)	Exhibitor Innovator Showcase (EIS13) Temperature Compensation for QCMs (Sheldon Wayman - INFICON)
11:10 AM	Optical Coatings (OT3) Gas Flow Sputtering Prepared SiC Coating for Plasma Etching Resistance (Chia Yin Liou - Feng Chia University)	Protective, Tribological and Decorative Coatings (TT5) Near-Infrared Optical Properties of Thermal Barrier Coatings: Effect of Microstructure and Degradation (Ludvik Martinu - Polytechnique Montréal)	Emerging and Translational Technologies and Applications (ET4) Directional Off Axis Sputtering for Structurally Defined Solar Modules (Alexander Topping - Power Roll Ltd)	Exhibitor Innovator Showcase (EIS 14) Creating New Pathways from R&D to Production in the Vacuum Coating World (Frank Papa - GP Plasma)
11:30 AM	Optical Coatings (OT4) Innovative Approaches to the Development of Transparent Flexible Electrodes (Aleksandra Pajak - Polytechnique Montréal)	Protective, Tribological and Decorative Coatings (TTinv1) Application of Various Coatings on Alcoa® Jet Engine Parts (Tsunao Tsuzuka - IHI Corporation)	Emerging and Translational Technologies and Applications (ET5) Advanced Thin Film Coatings based on TiN for next Generation Quantum Computing (Manuela Jungheuer - Fraunhofer IZM-ASSID)	Exhibitor Innovator Showcase (EIS 15) The R-ALD: An Economical ALD Research and Development System (Jacob Bertrand - Maxima Sciences LLC)
11:50 AM	Optical Coatings (OT5) New Era for Eyeglasses (Ronald Willey - Willey Optical, Consultants)		Emerging and Translational Technologies and Applications (ET6) Circular Economy and PVD: Adding Value to the Future (Lara Maroto-Diaz - Gencos Ltd.)	Exhibitor Innovator Showcase (EIS 16) Accelerating Material Breakthroughs with Atomic Layer Deposition (ALD) and Physical Vapor Deposition (PVD) Combined Processes (Carlos Guerra - Swiss Cluster AG)
12:10 PM	Optical Coatings (OTinv2) Coatings for Laser Fusion Ignition and Beyond (Christopher Stolz - Lawrence Livermore National Laboratory)	Protective, Tribological and Decorative Coatings (TT6) Studies of Porosity in Ceramic Titanium Nitride Oxide PVD Coatings (Zhonghui Wang - Tamu Industries)	Emerging and Translational Technologies and Applications (ET6) Circular Economy and PVD: Adding Value to the Future (Lara Maroto-Diaz - Gencos Ltd.)	Exhibitor Innovator Showcase (EIS 17)
12:30 PM	9:00 AM Exhibitor Meeting (closed session) Exhibit Hall Opens at 10:00 AM 2:00 PM Beer Blast 3:00 PM Announce: 5K Walk/Run Winner & Best Poster Exhibit Hall Closes at 4:00 PM			Exhibitor Innovator Showcase (EIS 18)
	90 Minute Break			
4:00 PM	5:30 - 7:30 PM			
6:00 PM	Program Committee Meeting			
7:30 PM	Lake Huron (8th floor)			

	THURSDAY: MAY 9, 2024			
7:00 AM	TFB: Manufacturing in Space <i>Nick Franzer (Kurt J. Lesker Company) / Kevin Savin (Redwire Space Co.)</i> International Ballroom North TFB: Protective, Reflective, and Decorative Coatings <i>Joshua Soper (Vergason Technology, Inc.)/Robert Stalinsky (Valence Technologies, LLC)</i> International Ballroom North TFB: Fabrication and Performance of Optical Coatings <i>Ludvik Martinu (École Polytechnique Montreal) / Vivek Gupta (Meta) / Kestutis Juskevicius (ARO Corp)</i> International Ballroom North TFB: Transparent Conductive Materials (TCM) <i>Clark Bright (Bright Thin Film Solutions, LLC) / Patrick Morse (Intevac)</i> International Ballroom North TFB: Atmospheric Plasma Technology <i>Hana Barinková (Uppsala University) / Ladislav Bardos (Uppsala University)</i> International Ballroom North TFB: Post-Processing of Vacuum-Coated Roll-to-Roll Products <i>Andy Jack (Emerson and Renwick Ltd.) / Chris Stoessel (Stoessel Consulting)</i> International Ballroom North TFB: Surface Engineering for the Hydrogen Economy <i>Rolf Bandorf (Fraunhofer IST) / Herbert Gabriel (PVT Plasma and Vakuum Technik GmbH)</i> International Ballroom North			
8:30 AM				
8:30 AM	10 Minute Passing Break			
8:40 AM				
9:10 AM	Keynote - Continental B Ballroom "New" Approaches to Controlling Composition and Crystallinity in Sputter-Deposited Thin Films (Suneel Kodaambaka - Virginia Polytechnic and State University, Blacksburg, VA)			
9:20 AM	10 Minute Passing Break			
9:30 AM	Continental A Ballroom Optical Coatings Panel Discussion and Workshop (1 hour-forty minutes) "The Challenge of Managing Defects in Production Optical Coating Processes"	Continental B Ballroom Protective, Tribological and Decorative Coatings (TT7) Conformal and Superconformal Chemical Vapor Deposition of Silicon Carbide Coatings on Structured Graphite (Jing-Ju Huang - Linköping University) Protective, Tribological and Decorative Coatings (TT8) CVD-Diamond Tool Coatings for Wire Drawing Dies with High Aspect Ratios (Christian Stein - Fraunhofer Institute for Surface Engineering and Thin Films IST) Protective, Tribological and Decorative Coatings (TTim2) CVD Coatings for Cutting Tools: Evolution and Challenges (Dino Bangerer - Kometwerk)	Continental C Ballroom Digital Transformation of Industrial Deposition Processes (DTimv1) How Well Our Vacuum Coater and Deposition Processes Look Like Tomorrow? (Wilmet De Bosscher - Soleras Advanced Coatings) Digital Transformation of Industrial Deposition Processes (DT1) Automated Design of Coating Recipes Using a Digital Twin Model (Adam Obrusnik - Plasmasolve s.r.o.) Digital Transformation of Industrial Deposition Processes (DT2) How to Handle All the Data Within Surface Technology? (Holger Gerdes - Fraunhofer IST)	Buckingham High-Powered Electron Beam Technology High-Powered Electron Beam Technology High-Powered Electron Beam Technology (EB1) Industrial Coating Developments by Electron Beam Physical Vapor Deposition (EB-PVD) - Technological Challenges for the Coating of Steel (Steve de la Haye - Océane Gillet - CRM Group) High-Powered Electron Beam Technology (EB2) Plasma Activated EB-PVD for High-Throughput Continuous Coating of Bipolar Plates (Stefan Seeger - Fraunhofer IFF)
10:10 AM	30 Minute Refreshment Break			
10:30 AM	Optical Coatings (OT6) Improved Three Layer Antireflection Coating Design Discovery (Ronald Willey - Willey Optical Consultants)	Protective, Tribological and Decorative Coatings (TT9) Characterization of Diamond Like Carbon Coatings for Applications in Infrared Optics and Tribology (Garrett Bellinger - McMaster University)	Digital Transformation of Industrial Deposition Processes (DT3) Simulink 4D From Simulation to Optimization for Coating Processes and Coaters (Dennis Barton - Fraunhofer IST)	High-Powered Electron Beam Technology (EBimv1) EB-PVD Thermal Barrier Coatings for the Aerospace Industry: Current Status, Challenges, and Future Outlook (Jason Van Slyman - Honeywell Aerospace)
11:30 AM	Optical Coatings (OT7) Origins of Stress in Amorphous Optical Thin Films: Mechanisms of Stress Generation and the Role of the Sputtering Parameters (Pedro Avila - Polytechnique Montreal)	Protective, Tribological and Decorative Coatings (TT10) A Scalable, Fast Free Method to Produce Decorative Automotive Interior Plastic Parts in Industrial Scale by Digital Printing and PECVD Hard Coating with Superior Quality and Extraordinary Cost Savings (Klaus-Dieter Heubach - GDM Innovative Oberflächenveredelung GmbH)	Digital Transformation of Industrial Deposition Processes (DT4) Progress in Open-Source Plasma Modeling: Introducing the Simulation Tool PIGLas and Harnessing its Potential with Web-Based Platforms for Thin-Film Technologies (Paul Nizenzov - Bohrtap-energetical plasma dynamics GmbH)	High-Powered Electron Beam Technology (EB3) Features and Applications of Electron Beam Process Controllers (Christine Heumann - VDM ABB-Prime GmbH)
11:50 AM	Optical Coatings (OT8) Sputtered Coatings for Space-Based Optical Systems Including Gold Insulated-Transmission Filters (John Kilbourne - Chroma Technology)	Protective, Tribological and Decorative Coatings (TT11) Challenges and Approaches in the Development and Application of Decorative PVD Coatings (Martin Engels - Imconed Netherlands B.V.)	Digital Transformation of Industrial Deposition Processes (DT5) Leverage Data to Enhance Arc Management and Anomaly Detection Capabilities on Advanced Energy™ (AE) Power Supplies to Reduce Operational Costs (Jing Li - Advanced Energy Industries, Inc.)	
12:10 PM	30 Minute Lunch Break			
12:40 PM	Continental A Ballroom Optical Coatings (OTimv8) MO-CVD Technology for 2D-TMDC Equipment, Processes, Material Properties and Future Applications (Michael Heuken - AXETRON SE)	Protective, Tribological and Decorative Coatings (TT12) Wear Resistance of Highly Textured TiN Coatings (Xuanqin Sheng - Purdue University) Protective, Tribological and Decorative Coatings (TT13) Unlocking the Potential: Synergistic Tribological Performance of Gadolinium Doped DLC Coatings with Phosphorus Containing Ionic Liquids (Takuro Onogi - University of Coimbra)	WebTech Roll-to-Roll Coatings for High-End Applications (WTimv1) Monitoring of Conductive Thin-Film in Challenging Vacuum Environments by Eddy Current Sensors (Marcus Klein - SURAGUS GmbH)	Buckingham Thin Film Sensors (SE1) Phase-Change Thin Films for Electrical, Thermal, Friction and Strain Sensing (Alain Kache - Université de Moncton) Thin Film Sensors (SE2) Development and Study of Low-Cost, Scalable Nitrogen-Incorporated Tetrahedral Amorphous Carbon (ta-CN) Electrochemical Sensor (Nina Basile - Fraunhofer IFF)
1:00 PM	Optical Coatings (OT9) In-Situ Characterization of Coating Roughness Evolution Using Light Scattering Methods (Nadja Felde - Fraunhofer IOP)	Protective, Tribological and Decorative Coatings (TT14) Study of Protecting Mechanical Properties of 3-D Printed Polymers Exposed to Severe Testing Conditions by Magnetron Sputtering Deposition (Dariusz Miłut - Mercer University)		Thin Film Sensors (SEimv1) Complex Germanates Thin Film Growth by Sub-oxide Source Molecular Beam Epitaxy (Hanjiang Pail - University of Oklahoma)
1:40 PM	Optical Coatings (OT10) Estimating the Average Reflectance of an Antireflection Coating (Ronald Willey - Willey Optical Consultants)	Programming pause	WebTech Roll-to-Roll Coatings for High-End Applications Panel Discussion and Workshop (1 hour - forty minutes)	Thin Film Sensors (SE3) Optical Metasurface Engineering for Enabling the Mid-Wave Infrared Polarization Detection (Hosna Sultana - University of Oklahoma)
2:00 PM	Optical Coatings (OT11) Using Different Coating Techniques to Minimize Stress of Hafnia/Silica Stacked Filter Coating (Eyül Demir - ASELSAN)	Protective, Tribological and Decorative Coatings (TTimv3) Application of Thermal Barrier Coatings on Hotter Parts of Aero-Engines Using EB-PVD Technology (Ravi Shankar Narasimhan - DLR)	"Coating Thousands of Meters of Flexible Substrate in a Vacuum Coater - What Could Possibly Go Wrong?"	Thin Film Sensors (SE4) Study of Ion Charging Effect to Improve Reactive-Ion Etching Profile of Pkde Grating Structures (Tahereh Nemati - University of Oklahoma)
2:20 PM	Optical Coatings (OT12) High Mobility TCO for Superior Optical Performance (Clark Bright - Bright Thin Films Solutions LLC)			Thin Film Sensors
2:40 PM	Optical Coatings (OT13) Plasma-Assisted Reactive Magnetron Sputtering Technology for Versatile Gradient Optical Interference Filters Fabrication (Julien Lumeau - Institut Fresnel - CNRS)	Protective, Tribological and Decorative Coatings (TT15) Plasma Etching Resistance of Gas Flow Sputter Prepared Yttrium Oxynitride Coating Against Different Fluorine Plasma (Ping-Yan Hsieh - Feng Chia University)	WebTech Roll-to-Roll Coatings for High-End Applications (WT1) Integration of a Mid IR Tunable Quantum Cascade Laser Based Reflectance Spectrometer in a Roll to Roll Sputter Coater (Mike Simmons - INTELLIVISION LLC)	
3:00 PM	Optical Coatings (OT14) Metallic Thin Films: The Forgotten Transparent Conductive Material (Clark Bright - Bright Thin Films Solutions LLC)	Protective, Tribological and Decorative Coatings (TT16)		
3:20 PM	20 Minute Refreshment Break			
3:40 PM	Coatings for Energy Conversion and Related Applications (ENimv1) Vertically Aligned Carbon Nanotube Coatings for Dendrite-Free and Stable Lithium-Metal Battery Anodes (Abdul-Rahman Raji - Zota Energy Corporation)	Protective, Tribological and Decorative Coatings Panel Discussion and Workshop (2 hours)	WebTech Roll-to-Roll Coatings for High-End Applications (WT2) A Modular R2R Vacuum Coating Platform Using State of the Art Automation Tools for Productivity in Multi-Layer Application (Michael Muecke - Bühler Leybold Optics)	
4:00 PM				
4:20 PM	Coatings for Energy Conversion and Related Applications (EN1) Electrode Coatings for the Energy Transition (Marjo Luvack - Magneto Special Anodes B.V.)			
4:40 PM	Coatings for Energy Conversion and Related Applications (EN2) Combinatorial Thin Film Catalysts for Oxygen Evolution Reaction (Natalie Page - Rowan University)			
5:00 PM	Coatings for Energy Conversion and Related Applications (EN3) Spatial Atomic Layer Deposition of Iridium oxide electrocatalyst layers for PEM electrolysis (Paul Poedt - SparkNano B.V.)			
5:20 PM	Coatings for Energy Conversion and Related Applications (EN4) Indium Zinc Oxide TCOs Films Deposited from a Metallic Tube Target for Perovskite-Silicon Tandem Solar Cell Applications (Volker Stöckinger - Fraunhofer IST)			
5:40 PM	Coatings for Energy Conversion and Related Applications (EN5) Swift Solar: From Research and Development to the Commercialization of Perovskite Photovoltaics (Tobias Albrecht - Swift Solar Inc.)	Protective, Tribological and Decorative Coatings		
6:00 PM	6:00 PM - 7:30 PM Young Members/Farewell Social International Ballroom South			
7:30 PM				