Monday (April 27, 2026)

Technical Forum Breakfasts

TFB: Atmospheric Plasma Technology
Hana Barankova (Uppsala University) / Ladislav Bardos (Uppsala University)
Long Beach Convention Center Promenade: 102 A

TFB: Coatings and Surface Engineering for Medical Applications
Jeff Hettinger (Rowan University) / Greg Taylor (Lawrence Livermore National Laboratory)
Long Beach Convention Center Promenade: 102 B

TFB: High Power Impulse Magnetron Sputtering (HiPIMS)
Arutiun P. Ehiasarian (Sheffield Hallam University) / Ralf Bandorf (Fraunhofer-IST)
Long Beach Convention Center Promenade: 102 C

TFB: Photonically Induced Surface and Thin Film Processing
Christopher Muratore (University of Dayton) / Stefan Seager (Fraunhofer-FEP)
Hyatt Regency: Seaview Ballroom A

TFB: Durability Evaluation of Thin Film Coatings: Testing Methods and Practical Implications
Brent Boyce (Guardian) / Anelia Wickerlin (Gilas Trilach)
Hyatt Regency: Seaview Ballroom B

TFB: Transparent Conductive Materials (TCM)
Clark Bright (Bright Thin Film Solutions, LLC) / Patrick Morse (Arizona Thin Film Research, LLC)
Hyatt Regency: Seaview Ballroom C

LBCC Promenade 106A (Program track daily room assignment) | LBCC Promenade 104B (Program track daily room assignment) | LBCC Promenade 104C (Program track daily room assignment) | LBCC Promenade 101A (Program track daily room assignment) | LBCC Promenade 101B (Program track daily room assignment)

10 minute passing break

Compact Business Meeting (30 minutes)
All are encouraged to attend!
(LBCC Promenade 104B)

10 minute passing break

Director of Program Welcome and Conference Introduction (LBCC Promenade 104B)

Keynote (LBCC Promenade 104B)
Sustainability and Life Cycle Thinking as Innovation Drivers for Surface Engineering
(Christoph Hermann - Fraunhofer IST)

20 minute refreshment break

Large Area Colloquium
"Giving new life to old coaters: Modernization of coaters for new demands"

- Characterization, Testing, and Failure Analysis (CT): In-Situ and In-Vivo Characterization of Thin Films Embedded in Functional Thin Films (Ludvik Martinu - Polytechnique Montreal)
- Characterization, Testing, and Failure Analysis (CT): Experimental Study of Low Frequency Electrical Surface Cycling and Wetting of Automotive Steel Zink for Bipolar Plates (Carsten Dosch - Fraunhofer Institute for Surface Engineering and Thin Film Technology IST)
- Characterization, Testing, and Failure Analysis (Invited): Surface Coating, Tribology, and Analysis of Materials for Medical Devices (Bernard D. Mathieson)
- Characterization, Testing, and Failure Analysis (CT): Influence of Laser Ablation Induced Surface Modification on the Tribological Behavior of ULCA Coating (Ben Wilson - Universidad Pública de Navarra (UPNA))
- Plasma Processing and Diagnostics (Invited): Plasma-Assisted ALD Process Development for Fuel Cells: Ultra-Thin Conformal Pt Films on Carbon Nanotube and Nanowireworks for PEMA/SOFC Applications (Gustaf Sjöblom - Alleno)
- Plasma Processing and Diagnostics (Invited): Continuous PVD Roll-to-Roll Processed Materials for Fuel Cells: Ultra-Thin Conformal Pt Films on Carbon Nanotube and Nanowireworks for PEMA/SOFC Applications (Gustaf Sjöblom - Alleno)
- Plasma Processing and Diagnostics (Invited): Reactive Sputtering Deposition of Ceramic Thin Films (Kai Ruzicka - Fraunhofer FEP)
- HiPIMS (Invited): Industrial Scale Deposition of Functional Coatings by Pulsed Magnetron Sputtering (Stephan Waxman - IHPC)
- HiPIMS (Invited): Comparative Study of Growth and Properties of Thin Films Deposited via Reactive DCMS and HiPIMS (Jonas Oberste - Fraiture Coating Technologies GmbH & Co. KG)
- HiPIMS (Invited): Antimicrobial Efficiency and Durability of Nanostructured HiPIMS Deposited Nanoscale Multilayer TiN/MoN Coatings (Andrea P. Ehiasarian - Sheffield Hallam University)
- HiPIMS (Invited): Real-Time Optimization of HiPIMS Processes Using Pulse-Resolved Spectroscopy and Adaptive Plasma Control (Thomas Schalkx - PLASUS GmbH)
- HiPIMS (Invited): Towards Reactive Gas Ions Synthesizing of Functional Nitrides - The Role of Metal Ions in Plasma Activated Reactive Environments (Tetsuhide Shimizu - Tokyo Metropolitan University)
- Advanced Multifunctional Coatings (Invited): Advanced Active and Inactive Cooling Technologies to Improve Life and Safety of Industrial Electrochemical Systems: Automotive and Grid Applications (Ralph Kodar - Argonne National Laboratory)
- Advanced Multifunctional Coatings (AMF): Sputtered Oxide Thin-Film Coatings for Solid-State Batteries: Sn-Zn-O-Doug Storage (Juan Maguire - Polimerica & Alloys)
- Advanced Multifunctional Coatings (AMF): Hydrogenated Diamond-Like Carbon Thin Films Grown by a Beam Source Ion Beam Deposition (Fabiola Maria - Aperios Innovation)
- Advanced Multifunctional Coatings (AMF): Vacuum-Evaporated Composite Copper Foil for Lithium-Ion Batteries: Fabrication and Performance (Sun Liu/Shanhong Lu - Northeastern University China)
- Advanced Multifunctional Coatings (AMF): Ultra-Thin Conformal Pt Films on Carbon Nanotube and Nanowireworks for PEMA/SOFC Applications (Gustaf Sjöblom - Alleno)

40 minute passing / lunch break

Don Mattox Tutorial (LBCC Promenade 104B)
From Poisoned Targets to Healthy Models: The Quest for Parameters
(Diederik Depla - Ghent University)

10 minute passing break

Large Area (Invited)
Mass Production of Inorganic and Organic Coatings for Display Cover Glass
(Brian Hoheisen - Corning Inc.)

- Characterization, Testing, and Failure Analysis (CT): Insitu Optical Polarimetric Measurement for Thin Film Processing (Tim Quickel - Industrial Image)
- Characterization, Testing, and Failure Analysis (CT): Emergent Superconductivity Superconductivity in WTe2 with Silver Mesoscale Interconnects (Ke-Dam Sohn - Korea Research Institute of Standards and Science)
- Coatings and Processes for Biomedical Applications (BP): Estimating the Lifetime of the Antimicrobial Property of Silver Containing Thin Films Deposited by Magnetron Sputtering Plasma Assisted Reactive Evaporation Electrochemical Devices (Dieter Diziptra - Roesen University)
- Coatings and Processes for Biomedical Applications (BP): Electrically Restructured Titanium Electrodes with Integrated Antibacterial Functionality: Non-Antimicrobials Implantable Devices (Amit Pandya - Drexel University)
- Coatings and Processes for Biomedical Applications (Invited): From Vacuum to Biomds - Closing the Loop with Thin Films (Matthias Wagner)
- Two Resolved Investigations on Ion Fraction, Ionization Degree, and Plasma Potential in Cathodic Arc Metal Plasma (Ralf Bandorf - Fraunhofer IST)
- HiPIMS (HP): Through-Glass Via Metallization by Using HiPIMS Copper Layer (Zhang Chen Wei - Hong Chin University) SPONSORED STUDENT PRESENTATION
- HiPIMS (HP): Advanced HiPIMS Coatings Deposition for High Performance Cutting Tools (Ariel Fuegenson Pino Ibanez - Guangdong Huazheng nanotechnology)
- HiPIMS (HP): Reactive Sputtering Discharge Dynamics by Pulse Sequencing in Multi-Pulse HiPIMS (Erdong Chen - Tokyo Metropolitan University)

SIC Strategic Technologies and Markets Colloquium
"The challenge of transitioning to sustainable surface engineering practices"

20 minute refreshment break

- Large Area (LT): Reliable Manufacturing of Liquid-Processing-Free C-Glass via Precursor Gas Vapor Lithography (Gaowen Ding - Lightformerchina Corp.)
- Large Area (LT): Curing Large-Area Advanced Packaging Through Optical In-Situ Monitoring in Sputter Deposition (Dalip Haberstroh - Leybo INC)
- Large Area (LT): High Throughput Large-Area Coating Using a Carousel-Type Sputtering System (Takuya Sugawara - Shincron Co., Ltd.)
- Large Area (LT): Process Improvements for Large-Area Deposition of TiO2 Thin Films on Flexible Substrates Using Roll-to-Roll Technology (Mika Simmons - Intellisystem LLC)
- Characterization, Testing, and Failure Analysis (Invited): New Developments in Spectroscopic Ellipsometry (James Hilfiker - J.A. Woollam Co)
- Quantum Computing (Invited): Complete Hamiltonian Control with Multi-Mode Superconducting Circuits (Eli Levenson-Falk - University of Southern California)
- HiPIMS Colloquium: "The Innovation Spiral of HiPIMS Towards Industrialisation"
- Photonically-Induced Transformations of Thin Films (Invited): Photonic Post-Processing of Printed Inks on Flexible Substrates (Mark Pellin - SUNY Binghamton University)

20 minute break

Sunset Meeting Forums

SMF: Advanced Deposition Coating Hardware
Frank Papa (UP Plasma, LLC) / Ralf Bandorf (Fraunhofer-IST)
Long Beach Convention Center Promenade: 102 A

SMF: Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition
L. Magagnin (Politecnico Milano) / J. Alami (UMJP)
Long Beach Convention Center Promenade: 102 B

SMF: Advanced Deposition Coating Hardware
Frank Papa (UP Plasma, LLC) / Ralf Bandorf (Fraunhofer-IST)
Long Beach Convention Center Promenade: 102 A

SMF: Advanced Multifunctional Coatings: Integrating Vacuum and Electrochemical Deposition
L. Magagnin (Politecnico Milano) / J. Alami (UMJP)
Long Beach Convention Center Promenade: 102 B

SMF: Materials for PVD processes
David Sanchez / Christos Pernagidis (Avalovet)
Long Beach Convention Center Promenade: 102 C

SMF: Characterization, Testing and Failure Analysis of Thin Films, Coatings and Engineered Surfaces
Matt Linford (Brigham Young University) / Oleg Zabeida (Ecole Polytechnique Montreal) / Dehua Yang (Ellabcco)
Hyatt Regency: Seaview Ballroom B

SMF: Large-Area Advanced Packaging and Integrated Photonics
Patrick Morse (Arizona Thin Film Research, LLC) / Manuela Junghähnel (Fraunhofer-ASSID)
Hyatt Regency: Seaview Ballroom C

1hr 40 min Dinner Break
6:20 - 8:00 PM

Casino Night Fundraiser (Hyatt Regency - Beacon Ballroom)
8:00 - 10:00 PM

Tuesday (April 28, 2026)

Technical Forum Breakfasts

TFB: Leak Detection - Issues and Practices
Mike Rickenbach (Lapshield USA) / Jean-Pierre Delsca (SEIL Redwood)
Long Beach Convention Center Promenade: 102 A

TFB: Industrial Challenges: Uptime, Yield, & Consistency
John Naylor (Kurt J. Lesker Company)/ Jimmy Haight (Semicorex)
Long Beach Convention Center Promenade: 102 B

TFB: Magnetron Sputtering
Wilmert De Bosscher (Solaires Advanced Coatings) / Patrick Morse (Arizona Thin Film Research, LLC)
Long Beach Convention Center Promenade: 102 C

TFB: Process Monitoring & Control
Martynas Audronis (Nova Fabrica, Ltd.) / Edmund Schlangel (VAT Group)
Hyatt Regency: Seaview Ballroom A

TFB: Energy Conversion and Storage
Volker Sittinger (Fraunhofer-IST) / Stefan Sauger (Fraunhofer-FEP) / Ric Shimshock (General Atomics)
Hyatt Regency: Seaview Ballroom B

TFB: ALD for Optics
Chris Cook (Edmund Optics) / David Sanchez
Hyatt Regency: Seaview Ballroom C

LBCC Promenade 106A (Program track daily room assignment) | LBCC Promenade 104B (Program track daily room assignment) | LBCC Promenade 104C (Program track daily room assignment) | LBCC Promenade 101A (Program track daily room assignment) | LBCC Promenade 101B (Program track daily room assignment)

10 minute passing break

Awards Ceremony (LBCC Promenade 104B)
8:40-9:20 AM

10-minute passing break

- Advanced Multifunctional Coatings (Invited): Powder Atomic Layer Deposition at the Commercial Scale for Lithium-Ion Batteries (Christopher Gump - Forge Nano)
- Advanced Multifunctional Coatings (AMF): Composite Sulfonate Permselective Membrane Coatings - Angelo Antonelli (Ionomer Innovations/Sustainable Biofuels)
- Advanced Multifunctional Coatings (AMF): Stabilizing Lithium Metal Anodes with Vacuum-Evaporated PET+Cu Composite Current Collectors (Kiesling Jo - Northeastern University China)
- Organic and Perovskite Electronics (Invited): Achieving Compositional Tunability in Perovskite Thin Films by Physical Vapor Deposition (Jay Patel - King's College London)
- Organic and Perovskite Electronics (OPE): Monitoring Interfacial Decomposition Losses in Perovskite Solar Cells Fabricated by Vapor-Phase Deposition Techniques (Jeremy Dickerson - University of Toledo) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OE): High Voltage All-Evaporated Color Inorganic Perovskite Photovoltaic Stacks (Kelly Schueler - Rochester Institute of Technology) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OE): Thermal Co-Evaporation of Thin Film Photovoltaics by Pin Coater (Jin Yao - University of Oxford)
- Organic and Perovskite Electronics (OE): Optical In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights (Kelly Hakansel - LayField)
- Process Monitoring, Control, and Automation (PC): From Legacy to Industry 4.0: Retrofitting Vacuum Coaters with Edge Control Monitoring (Marcus Klein - SURFACE Group)
- Process Monitoring, Control, and Automation (Invited): Process Monitoring and Control for Roll-to-Roll Vacuum Deposition Processes (Pedro Reyes Santiago - VAT Vakuumventile AG)
- HiPIMS (HP): Industrial HiPIMS - Process Challenges, Tools and Innovations (Michael Stolzhan - Sentinel)
- HiPIMS (HP): 60 MHz/1 MHz Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via (Tsung-Hsi Chen - Feng Chia University)
- HiPIMS (HP): HiPIUM™ + Pulsed DC Magnetron Sputter Coatings on Inner Surface of Small Diameter Long Tubing (Ivan Shchedrinkov - Starfire Industries)
- This Film Contributions for the Hydrogen Economy (THE): Replacing Tribaloys by Thermally Sprayed Alloy Coatings (Ralf Bandorf - Fraunhofer IST)
- This Film Contributions for the Hydrogen Economy (THE): Hydrogen: Boon or Bane? Opportunities and Challenges in Coating Solutions for Natural Sunk-Ing (Nadim Rajman - Schaeffler Technologies)
- This Film Contributions for the Hydrogen Economy (THE): Analysis of Epoxidized Thin Films and Engineered Coatings (Vidya Hadambur - LayTec AG)
- This Film Contributions for the Hydrogen Economy (THE): Industrial Scale Up of Reactive Magnetron Sputtering of NiFeAl Electrocatalysts Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Tilmann Hannemann Rodriguez - Telemker)
- This Film Contributions for the Hydrogen Economy (THE): PVD Coatings for the Hydrogen economy - Applications, Testing Methods and Challenges (Robert Gabriel - PVT Plasma and Vacuum Technik GmbH) (pre-recorded video presentation)
- This Film Contributions for the Hydrogen Economy (THE): Correlating Deposition Temperature with Structure and Sensing Performance in Pd Thin Film Hydrogen Sensors Prepared by Magnetron Sputtering (Brooke Bunnell - Rochester Institute of Technology)
- This Film Contributions for the Hydrogen Economy (THE): Non-Contact Optical Measurements of Large-Area Diamond Coatings on Silicon Wafers for Hydrogen Permeation and Deflectometry Control (Volker Sittinger - Fraunhofer IST)

20 minute refreshment break

- Exhibitor Showcase (ESS): Exciting News From DHF Technical Products (Marcel Kaspar - DHF Technical Products)
- Exhibitor Showcase (ESS): Hard (Edwards)
- Exhibitor Showcase (ESS): New Plasma Source Technology to Help Combat Global Supply Chain Disruptions and Material Price Increases (Dermot Monaghan - Gencoa Ltd)
- Exhibitor Showcase (ESS): Dual Output, Half Bio Footprint, Full Control in Sealless Reactive Sputtering Power Supply Technology Delivers Stable Process with PVA and Advanced Arc Control for Faster Reporting and Lower CAPEX (Radu Krasnitski - TRUMPF Huettinger)
- Exhibitor Showcase (ESS): Integrated Mechanical Electrical Plasma Modification Solutions for Advanced Coatings (Perth Kotak - Anton Paar USA Inc.)
- Exhibitor Showcase (ESS): Custom Vacuum Coating Systems, Vacuum Coater Refurbishment and Contract R&D at DP Plasma (Frank Papa - DP Plasma LLC)
- Process Monitoring, Control, and Automation (PC): Beyond Traditional High Power Impulse Magnetron Sputtering (Dean Hazlewhurst - Trumpf Huettinger USA, Inc.)
- HiPIMS (HP): RF-Assisted HiPIMS as a Single Target: Discharge Stability and Deposition Rate Enhancement for Dielectric Films (Pavlo Sverdra - Pole Group)
- HiPIMS (HP): Critical Substrate Sputtering Plasma Is Key Role in the Global Wafer Shortage Crisis (Pavlo Sverdra - Pole Group)
- HiPIMS (HP): Optical In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights (Kelly Hakansel - LayField)
- This Film Contributions for the Hydrogen Economy (THE): Non-Contact Optical Measurements of Large-Area Diamond Coatings on Silicon Wafers for Hydrogen Permeation and Deflectometry Control (Volker Sittinger - Fraunhofer IST)

10:00 AM Exhibitor B2B Coffee Hour

11:00 AM Exhibit Hall Opens

2:30 - 4:30 PM Poster Session

POSTER (P1): Fabrication and Characterization of Molybdenum-Oxide Thin Films for Solar Energy Applications (Bassel Abdel-Samad - Université de Moncton)

POSTER (P2): Atmospheric Plasma Beam Printing of the Silicon Anodes and Lamination of Carbon Nanofiber Cathodes for Li6 (Yuri Glukhoy - Nanocoating Plasma Systems)

POSTER (P3): Front Contact (TCO/Cu/Ni) Engineering for High-Efficiency CdTe-based Solar Cells on Ultra-Thin Cover Glass (Aesha Patel - University of Toledo) SPONSORED STUDENT PRESENTATION

POSTER (P4): Thick Metal Coatings on Glass Microsphères for Advanced Manufacturing (Rita Shulman - Los Alamos National Laboratory)

POSTER (P5): Influence of K-Beam Evaporation Parameters on Coating Phase Transformation (Sun Liu - Northeastern University China)

POSTER (P6): Study on the Bond Strength of Flexible Thin Substrates (Sun Liu - Northeastern University China)

Welcome Reception (Exhibit Hall)
5:00 - 6:00 PM

Exhibit Hall Closes: 6:00 PM

Wednesday (April 29, 2026)

TAC Breakfast Meetings

- (1) Large Area Coatings TWG: (1) Large Area Advanced Packaging and Integrated Photonics TAC (Hyatt Regency: Seaview Ballroom A)
- (1) High Power Impulse Magnetron Sputtering (HiPIMS) TWG: (1) (2) Protective, Tribological, and Decorative Coatings TAC: (1) (2) This Film Contributions for the Hydrogen Economy TAC (Long Beach Convention Center Promenade: 102 A)
- (1) Plasma Processing and Diagnostics TWG: (1) (2) Photonically Induced Transformations of Thin Films and Surfaces TAC (Long Beach Convention Center Promenade: 102 C)
- (1) WebTech Roll-to-Roll Technologies and Innovation TWG: (1) (2) Emerging and Transitional Technologies and Applications TAC (Long Beach Convention Center Promenade: 102 B)
- (1) Optical Coatings TWG: (1) (2) Photonically Induced Transformations of Thin Films and Surfaces TAC (Long Beach Convention Center Promenade: 102 B)
- (1) Electron Beam Processes TWG: (1) (2) Coatings for Energy Conversion and Related Processes TAC (Hyatt Regency: Seaview Ballroom A)
- (1) Advanced Multifunctional Coatings TWG: (1) (2) Advances in Thin Film Sensor Technologies TAC (Hyatt Regency: Seaview Ballroom A)
- (1) Digital Transformation through AI, Machine Learning, Simulation and Data Science TWG: (1) (2) Process Monitoring Control and Automation TAC (Hyatt Regency: Seaview Ballroom C)
- (1) Characterization, Testing, and Failure Analysis of Thin Films TWG: (1) (2) Coatings and Processes for Biomedical Applications TAC (Hyatt Regency: Shoreline A)
- (1) Organic and Perovskite Electronics TWG: (1) (2) Quantum Computing TAC (Hyatt Regency: Shoreline B)

LBCC Promenade 106A (Program track daily room assignment) | LBCC Promenade 104B (Program track daily room assignment) | LBCC Promenade 104C (Program track daily room assignment) | LBCC Promenade 101A (Program track daily room assignment) | LBCC Promenade 101B (Program track daily room assignment)

10 minute passing break

Keynote (LBCC Promenade 104B)
Fano-Resonant Optical Coatings and Applications
(Chunlei Guo - University of Rochester)

10 minute passing break

- Exhibitor Showcase (ESS): The Benefits of Moving Plasma PVD Source Technology (Sara Morales Diaz - Gencoa Ltd)
- Exhibitor Showcase (ESS): Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Through Pandemic Disruptions (Anna Mikonowicz - TRUMPF Huettinger Sp. z o.o.)
- Exhibitor Showcase (ESS): Next-Generation Rotary Sensor Technology for Demanding Vacuum Coating Applications (Sheldon Wayman - IMPCOM)
- Exhibitor Showcase (ESS): Tungsten and Molybdenum Sputtering Targets for Semiconductor and Flat Panel Display Manufacturing (Enrica Fiandra - Plansee SE)
- Exhibitor Showcase (ESS): A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLC Platform (Bruno Bolamont - Oerlikon Balzers Coating USA)
- Emerging and Transitional Technologies (ET): Hybrid Deposition Technology for Ultra-Thin Gas Barrier Films (Ivan Tonov - HEIDA GmbH)
- Emerging and Transitional Technologies (ET): Industrial Production of Ultra-Thin Gas Barrier Films Using Roll-to-Roll Atmospheric Plasma Deposition (Lara Zeisler - Fraunhofer Institute for Surface Engineering and Thin Film Technology IST)
- Emerging and Transitional Technologies (ET): Industrial Scale Up of Reactive Magnetron Sputtering of NiFeAl Electrocatalysts Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Tilmann Hannemann Rodriguez - Telemker)
- Emerging and Transitional Technologies (ET): Scaling Atmospheric Plasma Deposition for Roll-to-Roll Manufacturing: A Scalable HiPIMS-Assisted Approach for Functional Thin Films (Jhilmay Lucas - Universidade do Minho)
- Emerging and Transitional Technologies (ET): Industrial Production of Ultra-Thin Gas Barrier Films Using Roll-to-Roll Atmospheric Plasma Deposition (Jhilmay Lucas - Guangdong Huizhong Vacuum Technology Co., Ltd.)
- Process Monitoring, Control, and Automation (PC): Real-Time Contaminant Particle Monitoring During Thin Film Deposition Processes Using Laser Scattering Sensors (Judith Marlene - Polytechnique Montreal)
- Process Monitoring, Control, and Automation (PC): Process Monitoring, Control, and Automation (PC): Analysis of Epoxidized Thin Films and Engineered Coatings (Vidya Hadambur - LayTec AG)
- Process Monitoring, Control, and Automation (PC): Industrial Scale Up of Reactive Magnetron Sputtering of NiFeAl Electrocatalysts Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Tilmann Hannemann Rodriguez - Telemker)
- Process Monitoring, Control, and Automation (PC): In-Vacuum Collar Monitoring to Improve Process Repeatability in Roll-to-Roll Coating (Jan-Peter Schaub - PLASUS GmbH)
- Optical (OF): Active Nanostructured Optical Coatings for Energy, Exposure and Sensor Applications (Ludvik Martinu - Polytechnique Montreal)
- Optical (OF): Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Niobium Oxide Thin Films Enabled by Substrate Bias Control (Lirong Sun - Air Force Research Laboratory)
- Optical (OF): Ultra-Low Coating Thermal Noise Reflectors: The Case of Hydrogenated Amorphous Silicon in Gravitational Wave Detectors (Alexandra Lussier - Université de Montréal) SPONSORED STUDENT PRESENTATION
- Large Area Advanced Packaging and Integrated Photonics (LAP): Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling High-Quality Metallization and Via Formation for Through-Glass Via (TGV) Technology (Anna Mikonowicz Oniszczuk - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP): Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling High-Quality Metallization and Via Formation for Through-Glass Via (TGV) Technology (Anna Mikonowicz Oniszczuk - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP): Optical Sensor Fiber Bragg Grating Arrays Enabling Roll-to-Roll Manufacturing (Jhilmay Lucas - Universidade do Minho)
- Optical (OF): Photoluminescent Luminescent Films for Luminescent Magnetoelectroplasmonic Optical Sensors (Chuan-Jen Tang - Feng Chia University)
- Optical (OF): Recent Innovations in Optical Coating Design Software (Michael Trubetskov - OTF Studio GmbH)
- Optical (OF): Harnessing Nd:Mg(Ga)o Plasma Dynamics in Nh-Assprimaped HiPIMS for Dense and Low-Absorption Optical Films (Rajesh Dorwar - Avalon Coating Technologies GmbH & Co KG)
- Large Area Advanced Packaging and Integrated Photonics (LAP): A Scalable HiPIMS-Assisted Approach for Functional Thin Films (Jhilmay Lucas - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP): Spectral Thin Film Optical Sensors for Smart Wearable Integrated Circuits (Thomas "Pete" Supanera - Omnicor Co. Ltd.)
- Large Area Advanced Packaging and Integrated Photonics (Invited): Optical Engineer and Thin Film Nanophotonics (Mohammed Filali Boubrik - University of Amiens) (pre-recorded video presentation)

9:00 AM Exhibitor Meeting

10:00 AM Exhibit Hall Opens

2:00 PM Beer Blast

3:00 PM Announce: 5 K Run Winner & Best Poster

Exhibit Hall Closes at 4:00 PM

Free Time
4:00 - 5:30 PM

TAC Program Meeting (Hyatt Regency Shoreline A/B)
5:30 - 7:30 PM

Thursday (April 30, 2026)

Technical Forum Breakfasts

TFB: Surface Engineering for the Hydrogen Economy
Ralf Bandorf (Fraunhofer-IST) / Herbert Gatzen (PVT Plasma und Vakuum Technik GmbH)
Long Beach Convention Center Promenade: 102 A

TFB: Protective, Reflective, and Decorative Coatings
Martin Engelb (Iscoheat) / Arno Shultene (Avalvac)
Long Beach Convention Center Promenade: 102 B

TFB: Digital Transformation of Industrial Deposition Processes
Holger Gerdes (Fraunhofer-IST) / Thomas Schütze (Plasus GmbH)
Long Beach Convention Center Promenade: 102 C

TFB: Optical Thin Film Design
Jay Ancelotti (Idea Corp.) / Rajiv Pethe (Vital Chem USA)
Hyatt Regency: Seaview Ballroom A

TFB: Aligning Deposition Process Requirements with Vacuum System Layout and Design
Wolfgang Decker (Kurt J. Lesker Company) / Jimmy Haight (Semicorex)
Hyatt Regency: Seaview Ballroom B

TFB: Electron Beam Processes
Stefan Saager (Fraunhofer-FEP) / Matthias Neumann (Von Ardenne)
Hyatt Regency: Seaview Ballroom C

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10 minute passing break

Keynote (LBCC Promenade 104B)
Plasma Technologies for Precision and Large-Scale Surface Engineering
(Elisabeth von Hauff - Fraunhofer-FEP)

10 minute passing break

- Electron Beam Processes (EB): High Rate Plasma-Activated EB PVD for Graphite-Filled Composite Bipolar Plates (Stefan Saager - Fraunhofer-FEP)
- Electron Beam Processes (Invited): Vacuum Electron Beam Technology for Wire and Wire Jet Solari - VON ARDENNE Group)
- Electron Beam Processes (EB): Open Source Roll-to-Roll Electron Beam Process Modeling Using PICsar. (Anh Nitsu - Jochaphil - Jochaphil Jochaphil Armenia GmbH)
- Atomic Layer Processing (Invited): Directional Atomic Layer Etching of Lithium Niobate Using Plasma Chemistry (Paulo Mendes - Cabinet)
- Atomic Layer Processing (AL): Creating Conformal Ultra-Thin Aluminum Oxide Passivating PVD's Chemical Stability Over PPR in Acid, PCR, and CIO (Marcin Dobska - Fabrogenet)
- Atomic Layer Processing (AL): Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects (Sara Sorin - Forge Nano)
- Optical (OF): Linear Ion Beam Assisted Deposition Sputtering (David Ebersman - AMPAS, Inc.)
- Optical (OF): Revolutionizing Optical Coatings with Ultra-Higher Deposition Rates and Plasma Stability with HiPIMS (Yibo Shao - TRUMPF Huettinger + Co. KG)
- Optical (Invited): State of the Art of Antireflective Coatings: Recent Improvements for the Geometrical Thin Film Design and Other Applications (Laurent Pinard - Laboratoire des Materiaux Avances - CNRS)
- Optical (OF): Machine-Learning-Enabled High-Throughput Optimization and Physical Properties of Ultra-Low Refractive Index Nanocomposite Organic Semiconductor Films and Devices (Zhenhong Li - University of Oxford)
- Optical (OF): Can AI Predict Ion Trajectories? Machine-Learning-Assisted Data-Driven Approach to Predictive Process Windows (Heba Salih - Canon Innovation)
- Optical (OF): Footy Process Rate Enhancement Optimization using Machine Learning (Holger Gerdes - Fraunhofer IST)
- Optical (OF): Reducing Downtime and Waste in Optical Coating Through AI Prediction (Jim Bentley - Gencoa Ltd)
- Optical (OF): Photochromic Thin Film Optical Sensors (Chuan-Jen Tang - Feng Chia University)
- Optical (OF): Optical Coatings "A Manufacturer's Guide to Coatings for High Power Lasers"
- Protective, Tribological, and Decorative Coatings (PT): Coatings for Tribological Applications - Known Paths and New Perspectives (Christian Kalschuer - Kurtz Engineering Institute (KEI), RWTH Aachen University)
- Protective, Tribological, and Decorative Coatings (PT): Coatings for Tribological Applications - Known Paths and New Perspectives (Christian Kalschuer - Kurtz Engineering Institute (KEI), RWTH Aachen University)
- Protective, Tribological, and Decorative Coatings (PT): High-Temperature Tribological Properties of Tungsten Disulfide Coatings: Effect of Deposition Temperature (Isaac Bejarano Gonzalez - Centro de Ingeniería y Desarrollo Industrial (CIDI))
- Protective, Tribological, and Decorative Coatings (PT): Decorative PVD Coatings - From Film Field to the Future (Martin Engelb - Iscoheat Beschichten K.G.)

20 minute refreshment break

- Photonically-Induced Transformations of Thin Films (Photon): Optimization of CIGSE Vertical-Graded Silver Grating For Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors (Sushil Gurnani - University of Oklahoma)
- Photonically-Induced Transformations of Thin Films (Invited): Process-Based Programming of Spatially Varying Nanoscrews Prepared by Glancing Angle Deposition Photonically Induced Transformations (Akhlesh Lakhtakia - University of Pittsburgh)
- Photonically-Induced Transformations of Thin Films (Photon): Controlling Photodecomposition in Rare-Earth Diphthalide Thin Films via Photon Energy and Substrate Temperature (Martina Gubkina - Institute of Solid State Physics, University of Latvia)
- Atomic Layer Processing (AL): Controlling the Crystallinity of Thin Films by Plasma Enhanced Atomic Layer Deposition (Sunk Minhee - U.S. Naval Research Laboratory)
- Sensors (SE): Versatile Hydrogen Sensing Platform Fabricated Using Roll-to-Roll PLD and Laser Patterning Processes (Chris Mendoza - University of Dayton)
- Sensors (SE): Challenges and Opportunities of Copper Nitride Nanostructures Sensors for Gas Sensing Applications (Ramesh Kumar - University of Dayton)
- Sensors (SE): Epitaxial Growth from a Thermal Evaporant: Highly Active Arsenic Sensors Made by Vapor Phase Epitaxy (Judith Pineda - University of Toledo) SPONSORED STUDENT PRESENTATION
- Optical (OF): High-Consistency Vacuum Coating Equipment and Process Platform for Large Area Optical Components (Zhihong Li - Guangdong Huizhong Vacuum Technology Co., Ltd.)
- Optical (OF): Passive and Active Structural Color Control of the Metallic-Dielectric Thin Film Structures (Michal Nowicki - Rochester Institute of Technology) SPONSORED STUDENT PRESENTATION
- Optical (OF): Thickness Distribution Modeling and Mask Optimization for Freeform Sub-Wavelength Coating Processes (Tsu-Hsu Chan - Ewb Young Vacuum Equipment Co., Ltd.)
- Optical (OF): Optical Measurements of Large-Aperture Diamond Coatings on Silicon Wafers for Hydrogen Permeation and Deflectometry Control (Volker Sittinger - Fraunhofer IST)
- Protective, Tribological, and Decorative Coatings (PT): "Decorative PVD Coatings – Trends and Challenges"

40 minute Lunch break

- Photonically-Induced Transformations of Thin Films (Invited): Additive Nanomanufacturing and Photonically Induced Functional Devices (Mahmoud Mahjouri Samani - Auburn University)
- Photonically-Induced Transformations of Thin Films (Invited): Laser Processing of Thin Films for High-Throughput Materials Discovery and Development (Chris Muratore - University of Dayton)
- Photonically-Induced Transformations of Thin Films (Photon): Nano-Textured Silicon Nanowire Photodetectors Enhanced by Hazardous Vapor Sensing Array (Rob Wilson - University of Oxford) SPONSORED STUDENT PRESENTATION
- Sensors (SE): Broadband BiMM Absorption in Ti-Film Nb Metasurface Photodetectors Using Deep Neural Networks (Md Kaushik Alam - University of Oklahoma) SPONSORED STUDENT PRESENTATION
- Sensors (SE): Design and Characterization of Low-Cost, Wide-Range, Type-B Capacitive Bend Mid-Wave Infrared Photodetectors (Noel Rahman - The University of Texas at Arlington) SPONSORED STUDENT PRESENTATION
- Sensors (SE): Self-Assembled Oxide Metal and Metallic-Metal Nanocomposite Thin Films for Metamaterials and Optical Sensing Applications (Ali Zhang - University of Texas at Arlington)
- Sensors (Invited): Nanomaterials Enabled Sensors for Wearable Applications (Ziyuan Qin - University of Illinois Urbana-Champaign)
- Coatings for Energy Conversion and Related Processes (CN): Influence of Silicon-to-Carbon Ratio on the Structure and the Electrochemical Performance of SiC Thin Film Anodes for Lithium-Ion Batteries Prepared by Magnetron Co-Sputtering (Khadija El Mekkaoui - Mohammed VI Polytechnic University) SPONSORED STUDENT PRESENTATION
- Coatings for Energy Conversion and Related Processes (CN): Sputter Deposition of Fe-W-Ni-Al Nanocomposite Alloy for Special Conformal Rubber Rollers (Gregory Taylor - Lawrence Livermore National Laboratory)
- WebTech Roll-to-Roll Technologies and Innovation (Invited): Optimizing Barrier Performance in Formed Flexible Bags (Todd Hayes - Pepsi Company)
- WebTech Roll-to-Roll Technologies and Innovation (Invited): Real-time Control of Reactive Roll-to-Roll Plasma Sputtering by Automated Vacuum Quality Monitoring (Michael Mosko - Buhler Leybold Optics)
- WebTech Roll-to-Roll Technologies and Innovation (WT): AI-Enhan