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 Wäckerlin (Glas Trösch)
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 Herrmann - 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 (ICT): In-Situ and In-Vivo Characterization of Functional Thin Films (Lukas Urbanek - Polytechnique Montreal)
- Characterization, Testing, and Failure Analysis (ICT): Experimental Study of Laser Thin Film Patterning and Wetting of Automotive Wet Ink for Bipolar Plates (Constantinos Charalampous - Fraunhofer Institute for Laser Technology, Germany - Aachen)
- Characterization, Testing, and Failure Analysis (Invited): Surface Coating, Tribology, and Evaluation of Materials for Medical Devices (Bernard D. Mathieson)
- Characterization, Testing, and Failure Analysis (ICT): Influence of Laser Ablation Induced Surface Damage Formation on the Tribological Performance of Ni-Based Alloys (Ivor Wilson - Universidad Pública de Navarra (UPNA))
  SPONSORED STUDENT PRESENTATION
- Characterization, Testing, and Failure Analysis (ICT): Reliable Mechanical Characterization of Vacuum Coatings: Best Practices in Decontamination and Scratch Testing (Parth Kotak - Anton Paar USA Inc.)
- Plasma Processing and Diagnostics (Invited): Plasma-Assisted Composite Copper Foil for Lithium-Ion Batteries (Tanzila Bumatayo - ISEPAL)
- Plasma Processing and Diagnostics (Invited): Reliable Mechanical Characterization of Vacuum Coatings: Best Practices in Decontamination and Scratch Testing (Parth Kotak - Anton Paar USA Inc.)
- Plasma Processing and Diagnostics (ICT): Plasma Processing and Diagnostics (Invited): Continuous PVD Roll-to-Roll Processed Material for Fuel Cells: Ultra-Thin Metal Bipolar Plates and Ultra-Thin Metal Interconnects for PEM/SOFC Applications (Essraf Sjibom - Alleese)
- Plasma Processing and Diagnostics (Invited): Continuous PVD Roll-to-Roll Processed Material for Fuel Cells: Ultra-Thin Metal Bipolar Plates and Ultra-Thin Metal Interconnects for PEM/SOFC Applications (Essraf Sjibom - Alleese)
- 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)
- Large Area (LT): HiPIMS Deposition of Cu Thin Film Current Collectors for Li-Ion Batteries (Mario Wenzel - IWS WÜRZBURG GmbH)
- Large Area (LT): Roll-to-Roll Sputtering of Ceramic Thin Film Electrolyte Target for Li Batteries (Jeremy Schiffmann - ALPA ANLAGENBAU GmbH)
- Large Area (ICT): Arc Evaporation Technology for Large Area Coating (Alexander Kirchberger - ALPA ANLAGENBAU GmbH)

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 (ICT): Insitu Optical Polarimetric Measurement for Thin Film Processing (Tim Quickel - Industrial Image)
- Characterization, Testing, and Failure Analysis (ICT): Emergent Superconductivity Superconductivity in WTe2 with Silver Mosaic Metasurfaces (Do-Gam Sim - 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 Using Accelerated Aging and Antimicrobial Performance (Hannah Brown - Rowan University)
- Coatings and Processes for Biomedical Applications (BP): Electrically-Restructured Titanium Electrodes with Integrated Antibacterial Functionality: Non-Antimicrobials Implantable Devices (Binh Pandeli - Drexel University)
- Coatings and Processes for Biomedical Applications (Invited): From Vacuum to Biotech - Closing the Loop with Thin Films (Matthias Wagner)
- Two Resistive Investigations on Ion Fraction, Ionization Degree, and Plasma Transport in Cathodic Arc HiPIMS Pulses (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: Field Evaporation Prior Known (Wei Zhou - Guangdong Huazheng nanotechnology)
- HiPIMS (HP): Reactive Sputtering Discharge Dynamics by Pulse Sequencing in Multi-Pulse HiPIMS (Erdong Chen - Tokyo Metropolitan University)
- SIG Strategic Technologies and Markets Colloquium "The challenge of transitioning to sustainable surface engineering practices"
- Large Area (LT): Reliable Manufacturing of Rigid-Flexible Hybrid Circuits by Laser Direct Metal Deposition (Laser DMD) (Sameem Ding - Laserbond Inc.)
- Large Area (LT): Enabling Large-Area Advanced Packaging Through Optical In-Situ Metrology in Sputter Deposition (Dalip Mahajan - Leybold - NSC)
- Characterization, Testing, and Failure Analysis (ICT): Optical Characterization of the Growth of Ultra-Thin Metal Films (Oleg Zabeida - Polytechnique Montreal)
- Large Area (LT): Optical Characterization of Thin Metal Films Using Spectroscopic Ellipsometry (Ivan Ohlsen - Horiba Scientific)
- Large Area (LT): Spectroscopic Ellipsometry Metrology for Roll-to-Roll Web Coating Applications (Ivan Ohlsen - Horiba Scientific)
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- Large Area (LT): Process Improvements for Low Temperature Deposition of TiO2 Thin Films on Flexible Substrates Using Roll-to-Roll Technology (Mike Simmons - Intellisense LLC)
- Characterization, Testing, and Failure Analysis (ICT): Correlated Cathodoluminescence and Electron Beam Induced Charging Mapping to Early/Mid Thin Films (Xiaoke Chu - Gresham)
- Photonically-Induced Transformations of Thin Films (Invited): Photonic Post-Processing of Printed Inks on Flexible Substrates (Mark Fedko - SUNY Binghamton University)
- 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"

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 (UNIBP)
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 (UNIBP)
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 (Ellipsico)
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 (Leybold USA) / Jean-Pierre Delsca (IDEL Redwood)
Long Beach Convention Center Promenade: 102 A

TFB: Industrial Challenges: Uptime, Yield, & Consistency
John Nagler (Hart I. Lesker Company)/ Jimmy Height (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

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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 (HP): Composition Gradient Protective Coatings Deposited by Combined Cathodic Arc and Magnetron Sputtering (Bernhard Wolf - TU Wien)
- Advanced Multifunctional Coatings (HP): Stabilizing Lithium Metal Anodes with Vacuum-Deposited PET-Like 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 (HP): Sn(II) Halide Perovskite Light-Emitting Diodes Fabricated by Vacuum Deposition (Ryoken LeGuille - UNS)
- Organic and Perovskite Electronics (HP): 4D MHy/S MHz Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via (Tsung-Hao Chen - Feng Chia University)
- HiPIMS (HP): HiPIGSP™ + Positive Ion Implantation Coatings on Inner Surface of Small Diameter Long Tubing (Ivan Shchedrinkov - Starfire Industries)
- 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 (PC): Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Under Extreme Conditions (Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)
- Process Monitoring, Control, and Automation (Invited): Transforming Thin Film Manufacturing with Advanced Chamber Sensors (Pedro Reyes Santiago - VAT Vakuumventile AG)
- Thin Film Contributions for the Hydrogen Economy (Invited): Hydrogen Born or Born? Opportunities and Challenges in Coating Solutions for Natural Sunlit-Up (Nazlim Bogatan - Schaeffler Technologies)
- Thin Film Contributions for the Hydrogen Economy (HP): Reducing Tribology Losses in Hydrogen Gas Environments (Ralf Bandorf - Fraunhofer IST)

20 minute refreshment break

- Exhibitor Innovator Showcase (EIS): Exciting News From SHF Technical Products (Marcel Kaspar - SHF Technical Products)
- Exhibitor Innovator Showcase (EIS): Hard (Edwards)
- Exhibitor Innovator Showcase (EIS): New Plasma Source Technology to Help Combat Global Supply Chain Disruptions and Material Price Increases (Dermot Monaghan - Gencoa Ltd)
- Exhibitor Innovator Showcase (EIS): Dual Output, Half Bio Footprint, Full Control in Sealless Reactive Gas Pulsing Power Supply Technology Delivering Stable Arcing with PVD and Advanced Arc Control for Faster Ramping and Lower CAPEX (Radu Krzyszton - TRUMPF Huettinger)
- Exhibitor Innovator Showcase (EIS): Integrated Mechanical Vacuum Pump Automation Solutions for Vacuum Coatings (Parth Kotak - Anton Paar USA Inc.)
- Exhibitor Innovator Showcase (EIS): Custom Vacuum Coating Systems, Vacuum Coater Refurbishment and Contract R&D at GP Plasma (Frank Papa - GP Plasma LLC)
- Organic and Perovskite Electronics (HP): Sn(II) Halide Perovskite Light-Emitting Diodes Fabricated by Vacuum Deposition (Ryoken LeGuille - UNS)
- Process Monitoring, Control, and Automation (PC): Beyond Traditional High Power Impulse Magnetron Sputtering (Dean Hendrycksen - Trumpf Huettinger USA, Inc. HQ)
- Process Monitoring, Control, and Automation (PC): Pure, Highly Responsive Process Monitoring Control for Atomic Scale Processes (Shaun Presley - Brooks Instrument)
- Process Monitoring, Control, and Automation (PC): Thermal Co-Evaporation of Thin Film Photovoltaics by Re-Crystallization (Jim Van Scholvoet of Oxford)
- Process Monitoring, Control, and Automation (PC): Optical In-Situ Metrology for Parasitic Processing: A Review of Reflectance and Photoluminescence Based Process Insights (Vedja Vidarlund - LayTechS)
- Thin Film Contributions for the Hydrogen Economy (HP): Metrology, Interfacial Characterization Issues in Perovskite Solar Cells Hydrogen Generation Photoelectrodes (Jean-Pierre Delsca - University of Toulon) SPONSORED STUDENT PRESENTATION
- Thin Film Contributions for the Hydrogen Economy (HP): Catalytic Properties of Ultra-Thin Platinum Films Prepared by Plasma Sputtering Studied by Electrochemical Methods (Stefan Lindner - Leibniz Institute for Plasma Science and Technology (INP)) SPONSORED STUDENT PRESENTATION
- Thin Film Contributions for the Hydrogen Economy (HP): Thin Film Coatings Enhance Durability of Electrodes for Alkaline Water Electrolysis (Ralf Bandorf - Fraunhofer IST)
- Thin Film Contributions for the Hydrogen Economy (HP): Tailoring Electrochemical Properties of Ni-Based Electrocatalysts Via Co-Sputtering (Stefan Lindner - Leibniz Institute for Plasma Science and Technology (INP)) SPONSORED STUDENT PRESENTATION
- Thin Film Contributions for the Hydrogen Economy (HP): Correlating Deposition Temperature with Structure and Sensing Performance in Pd Thin Film Hydrogen Sensors (Ahmed Ali Ali Ali Ali - Leibniz Institute for Plasma Science and Technology (INP)) SPONSORED STUDENT PRESENTATION
- Thin Film Contributions for the Hydrogen Economy (HP): Time-Resolved Mass Transport Measurements Reveal Layered Thin Films for Recycling Only 10 Nanm Platinum in PEM Fuel Cells Using HiPIGSP™ + Positive Ion™ (Brian Jurczyk - Starfire Industries LLC)

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/Ag/Ni/Cu) 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 Microsphere for Advanced Manufacturing (Rita Shulman - Los Alamos National Laboratory)

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

POSTER (P6): Study on the Bond Strength of Flexible Film 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: (1) Large Area Advanced Packaging and Integrated Photonics TAC
  Hyatt Regency: Seaview Ballroom A
- (1) High Power Impulse Magnetron Sputtering (HiPIMS) TWG 1: (1) Protective, Tribological, and Decorative Coatings TAC
  Long Beach Convention Center Promenade: 102 A
- (1) Photonically Induced Transformations of Thin Films and Surfaces TWG
  Long Beach Convention Center Promenade: 102 C
- (1) WebTech Roll-to-Roll Technologies and Innovation TWG: (1) Emerging and Transitional Technologies and Applications TAC
  Long Beach Convention Center Promenade: 102 B
- (1) Optical Coatings TWG 1: (1) Photonically Induced Transformations of Thin Films and Surfaces TAC
  Long Beach Convention Center Promenade: 102 B
- (1) Electron Beam Processes TWG 1: (1) Coatings for Energy Conversion and Related Processes TAC
  Hyatt Regency: Seaview Ballroom A
- (1) Advanced Multifunctional Coatings TWG 1: (1) Advances in Thin Film Sensor Technologies TAC
  Hyatt Regency: Seaview Ballroom B
- (1) Digital Transformation through AI, Machine Learning, Simulation and Data Science TWG: (1) Process Monitoring Control and Automation TAC
  Hyatt Regency: Seaview Ballroom C
- (1) Characterization, Testing, and Failure Analysis of Thin Films TAC: (1) Coatings and Processes for Biomedical Applications TAC
  Hyatt Regency: Shoreline A
- (1) Organic and Perovskite Electronics TAC: (1) 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 Innovator Showcase (EIS): The Benefits of Moving Plasma PVD Source Technology (Sara Marcia Elias - Gencoa Ltd)
- Exhibitor Innovator Showcase (EIS): Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Under Extreme Conditions (Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)
- Exhibitor Innovator Showcase (EIS): Next-Generation Rotary Sensor Technology for Demanding Vacuum Coating Applications (Sheldon Wayman - INFICON)
- Exhibitor Innovator Showcase (EIS): Tungsten and Molybdenum Sputtering Targets for Semiconductor and Flat Panel Display Manufacturing (Enrico Fiandra - Plansee SE)
- Exhibitor Innovator Showcase (EIS): A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLC Platform (Bruno Bolamonti - Oerlikon Balzers Coating USA)
- Emerging and Transitional Technologies (ET): Hybrid Chemical Vapor Deposition Process for Chalcogenide Thin Films Even at 50 °C for Infrared (Lining Sun - Air Force Research Laboratory)
- Emerging and Transitional Technologies (ET): Modeling Protocols for Predicting Long-Term Chalcogenide Thin Films Even at 50 °C for Infrared (Lining Sun - Air Force Research Laboratory)
- Emerging and Transitional Technologies (ET): Industrial Scale-Up of Reactive Magnetron Sputtering of Nitride Electrochromic Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Elhanan Hamzianoff Bachgiel - Teknikker)
- Process Monitoring, Control, and Automation (PC): Real-Time Contaminant Particle Monitoring During Thin Film Deposition Processes Using Optical Emission Studies (Ryoken LeGuille - UNS)
- Process Monitoring, Control, and Automation (PC): Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Under Extreme Conditions (Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)
- Process Monitoring, Control, and Automation (PC): Industrial Scale-Up of Reactive Magnetron Sputtering of Nitride Electrochromic Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Elhanan Hamzianoff Bachgiel - Teknikker)
- Optical (OP): Active Nanostructured Optical Coatings for Energy, Exposure and Sensor Applications (Ludovic Martinez - Polytechnique Montreal)
- Optical (OP): Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Nickel Oxide Thin Films Controlled by Chemistry (Ezekiel Ashby - UNS)
- Optical (OP): Ultra-Low Coating Thermal Noise Reflectors: The Case of Hydrogenated Amorphous Silicon in Gravitational Wave Detectors (Alexandre Lussier - Université de Montréal) SPONSORED STUDENT PRESENTATION
- Large Area Advanced Packaging and Integrated Photonics (LP): Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling High-Quality Metallization and Via Formation for Through-Glass Via (TGV) Technology (Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LP): Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling High-Quality Metallization and Via Formation for Through-Glass Via (TGV) Technology (Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)
- Electron Beam Processes (EB): Open Source Roll-to-Roll Electron Beam Process Modeling Using PICsL (Ivan Mitsa - Jackpine - Jackpine Jackpine Aerospace)
- Electron Beam Processes (EB): Open Source Roll-to-Roll Electron Beam Process Modeling Using PICsL (Ivan Mitsa - Jackpine - Jackpine Jackpine Aerospace)
- Atomic Layer Processing (Invited): Directional Atomic Layer Etching of Lithium Niobate Using Bromine Plasma Chemistry (Austin Minnich - Caltech)
- Atomic Layer Processing (AL): Cleaning Contaminated Surfaces Using Atmospheric Pressure Atomic Layer Processing (ALP) (Chemical Stability Over PFR-Si-Sub, PVD, and CVD) (Marcin Dobala - Fabrogen)
- Atomic Layer Processing (AL): Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects (Sara Sorin - Forge Nano)
- Digital Information (DI): Machine-Learning-Enabled High-Throughput Optimization and Physical Properties Of Ultra-Low Refractive Index Nanostructured Organic Semiconductor Films and Devices (Zhenhang Li - University of Dallas)
- Digital Information (DI): Can AI Predict Tribological Performance from Historical Data to Prioritize Process Windows (Hella Juhl - Canrak Innovation)
- Digital Information (DI): Faulty Process Data Detection and Prediction using Machine Learning (Holger Gerdes - Fraunhofer IPT)
- Digital Information (DI): Reducing Downtime and Waste in Coating Through AI Prediction (Jim Bradley - Gencoa Ltd)
- Optical (OP): Linear Ion Beam Assisted Deposition Sputtering (David Glavanovic - AMPAS, Inc.)
- Optical (OP): Revolutionizing Optical Coatings Deposition: Higher Deposition Rates and Plasma Stability with Ion Beam Sputtering (Tilo Sloan - TRUMPF Huettinger Gmbh + Co. KG)
- Optical (Invited): State of the Art of Antireflective Coatings: Recent Improvements for the Broadband Thin Film Coatings and Other Applications (Laurent Pinard - Laboratoire des Materiaux Avances - CNRS)
- Protective, Tribological, and Decorative Coatings (TT): Tribological Performance of Ion Beam Assisted Deposition Sputtering (Jim Hoover Ion - Kenan Institute of Materials Science (KIMS))
- Protective, Tribological, and Decorative Coatings (TT): Tribological Performance of Ion Beam Assisted Deposition Sputtering (Alexander Reh - Jonnalagadda Jeffrey Vaughn Institute)
- Protective, Tribological, and Decorative Coatings (TT): Innovative PVD Coatings – From Film Field to the Future Perspective (Christian Kalscheuer - Kurfürst Technology GmbH)
- Protective, Tribological, and Decorative Coatings (TT): Innovative PVD Coatings – From Film Field to the Future Perspective (Martin Engel - Kurfürst Technology GmbH)
- Optical Colloquium "A Manufacturer's Guide to Coatings for High Power Lasers"
- Protective, Tribological, and Decorative Coatings (TT): High-Temperature Tribological Properties of Tungsten Disulfide Coatings: Effect of Deposition Temperature (Sujal Bhavsar - Cleveland Clinic)
- Protective, Tribological, and Decorative Coatings (TT): Innovative PVD Coatings – From Film Field to the Future (Martin Engel - Kurfürst Technology GmbH)

20 minute refreshment break

- Exhibitor Innovator Showcase (EIS): Exciting Developments in Gas Control (Jim Van Scholvoet of Oxford)
- Exhibitor Innovator Showcase (EIS): Optical Emission Spectroscopy Closed-Loop Control for Atomic Scale Processes (Shaun Presley - Brooks Instrument)
- Exhibitor Innovator Showcase (EIS): Thermal Co-Evaporation of Thin Film Photovoltaics by Re-Crystallization (Jim Van Scholvoet of Oxford)
- Exhibitor Innovator Showcase (EIS): Toward Intelligent In-Situ Metrology: From Real-Time Data to Actionable Process Control (Vedja Vidarlund - LayTechS)
- Process Monitoring, Control, and Automation (PC): Beyond Traditional High Power Impulse Magnetron Sputtering (Dean Hendrycksen - Trumpf Huettinger USA, Inc. HQ)
- Process Monitoring, Control, and Automation (PC): Pure, Highly Responsive Process Monitoring Control for Atomic Scale Processes (Shaun Presley - Brooks Instrument)
- Process Monitoring, Control, and Automation (PC): Thermal Co-Evaporation of Thin Film Photovoltaics by Re-Crystallization (Jim Van Scholvoet of Oxford)
- Process Monitoring, Control, and Automation (PC): Toward Intelligent In-Situ Metrology: From Real-Time Data to Actionable Process Control (Vedja Vidarlund - LayTechS)
- Process Monitoring, Control, and Automation (PC): Beyond Traditional High Power Impulse Magnetron Sputtering (Dean Hendrycksen - Trumpf Huettinger USA, Inc. HQ)
- Process Monitoring, Control, and Automation (PC): In-Vacuum Color Monitoring to Improve Process Repeatability in Optical Coating Production (Jan-Peter Schaub - PLASSYS Gmbh)
- Optical (OP): Photoelectronic, Photomechanical Corrosion Masks for Large-Area Magnetoneurofactual Optical Coatings (Chien-Jen Tang - Feng Chia University)
- Optical (Invited): Recent Innovations in Optical Coating Design Software (Michael Trubetskov - DYF Studio GmbH)
- Optical (OP): Harnessing Nd:Mg:Gd:Ga Plasma Dynamics in Nh-Magnetronsed HiPIMS for Dense and Low-Absorption Optical Films (Rajesh Dorwar - Avalon Coating Technologies GmbH & Co KG)
- Large Area Advanced Packaging and Integrated Photonics (LP): A Scalable HiPIMS-RF Also Strategy for Robotic Co-Sand Layers in High-Aft Through-Glass Via (Tilo Sloan - TRUMPF Huettinger Gmbh + Co. KG)
- Large Area Advanced Packaging and Integrated Photonics (LP): Spectroscopic Plasma Emission Analysis for Scalable Monitoring Integrated Circuits (Tobias "Pete" Sugawara - Omnicon Co. Ltd.)
- Large Area Advanced Packaging and Integrated Photonics (Invited): Optical Engineer and Thin-Film Nanophotonics (Mohamed Elbakhouri - University of Arizona)

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 Gabriel (PVT Plasma und Vakuum Technik GmbH)
Long Beach Convention Center Promenade: 102 A

TFB: Protective, Reflective, and Decorative Coatings
Martin Engelb (Inobesol) / Anss Shalaine (Avalovet)
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 (Idex 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 Height (Semicorex)
Hyatt Regency: Seaview Ballroom B

TFB: Electron Beam Processes
Stefan Saager (Fraunhofer-FEP) / Matthias Neumann (Von Ardenne)
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

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

10 minute passing break

- Photonically-Induced Transformations of Thin Films (Photonic): Optimization of CIGSE Vertical-Graded Silver-Finishing For Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors (Sumit Gonsoor - University of Oklahoma)
- Photonically-Induced Transformations of Thin Films (Invited): Process-Based Programming of Spatially Varying Nanoscribes Properties Using Ultrafast Laser Photonic Transformations (Alejandro Rodney - University of Pittsburgh)
- Photonically-Induced Transformations of Thin Films (Photonic): Controlling Photodetection in Rare-Earth Doughnuts Thin Films via Photonic Transformations (Martin Guillaume - Institute of Solid State Physics, University of Latvia)
- Photonically-Induced Transformations of Thin Films (Photonic): Additive Nanomanufacturing and Photonic Transformations of Functional Devices (Mehmet Mehpare Sonmez - 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 (Photonic): Nano-Textured Wireless Time-Temperature Indicators Based on Photochromic Nanofibers Vapor Sensing Arrays (Rick Wilkinson - University of Dayton) SPONSORED STUDENT PRESENTATION
- Electron Beam Processes (EB): Open Source Roll-to-Roll Electron Beam Process Modeling Using PICsL (Ivan Mitsa - Jackpine - Jackpine Jackpine Aerospace)
- Atomic Layer Processing (Invited): Directional Atomic Layer Etching of Lithium Niobate Using Bromine Plasma Chemistry (Austin Minnich - Caltech)
- Atomic Layer Processing (AL): Cleaning Contaminated Surfaces Using Atmospheric Pressure Atomic Layer Processing (ALP) (Chemical Stability Over PFR-Si-Sub, PVD, and CVD) (Marcin Dobala - Fabrogen)
- Atomic Layer Processing (AL): Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects (Sara Sorin - Forge Nano)
- Digital Information (DI): Machine-Learning-Enabled High-Throughput Optimization and Physical Properties Of Ultra-Low Refractive Index Nanostructured Organic Semiconductor Films and Devices (Zhenhang Li - University of Dallas)
- Digital Information (DI): Can AI Predict Tribological Performance from Historical Data to Prioritize Process Windows (Hella Juhl - Canrak Innovation)
- Digital Information (DI): Faulty Process Data Detection and Prediction using Machine Learning (Holger Gerdes - Fraunhofer IPT)
- Digital Information (DI): Reducing Downtime and Waste in Coating Through AI Prediction (Jim Bradley - Gencoa Ltd)
- Optical (OP): Linear Ion Beam Assisted Deposition Sputtering (David Glavanovic - AMPAS, Inc.)
- Optical (OP): Revolutionizing Optical Coatings Deposition: Higher Deposition Rates and Plasma Stability with Ion Beam Sputtering (Tilo Sloan - TRUMPF Huettinger Gmbh + Co. KG)
- Optical (Invited): State of the Art of Antireflective Coatings: Recent Improvements for the Broadband Thin Film Coatings and Other Applications (Laurent Pinard - Laboratoire des Materiaux Avances - CNRS)
- Protective, Tribological, and Decorative Coatings (TT): Tribological Performance of Ion Beam Assisted Deposition Sputtering (Jim Hoover Ion - Kenan Institute of Materials Science (KIMS))
- Protective, Tribological, and Decorative Coatings (TT): Tribological Performance of Ion Beam Assisted Deposition Sputtering (Alexander Reh - Jonnalagadda Jeffrey Vaughn Institute)
- Protective, Tribological, and Decorative Coatings (TT): High-Temperature Tribological Properties of Tungsten Disulfide Coatings: Effect of Deposition Temperature (Sujal Bhavsar - Cleveland Clin