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

7:30 AM – 8:30 AM

LBCC Promenade 104A (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)

8:30 AM – 9:30 AM: 10 minute passing break

9:30 AM – 10:30 AM: **Compact Business Meeting (30 minutes)**
All are encouraged to attend!
(LBCC Promenade 104 B)

10:30 AM – 10:40 AM: 10 minute passing break

10:40 AM – 11:00 AM: **Director of Program Welcome and Conference Introduction (LBCC Promenade 104B)**

11:00 AM – 12:00 PM: **Keynote (LBCC Promenade 104B)**
Sustainability and Life Cycle Thinking as Innovation Drivers for Surface Engineering
(Christoph Herrmann - Fraunhofer IST)

12:00 PM – 12:20 PM: 20 minute refreshment break

12:20 PM – 1:20 PM: **Large Area Colloquium**
"Giving new life to old coaters: Modernization of coaters for new demands"

- Large Area (LA) — Vacuum Deposition Technologies for Thin Film Batteries (Tassilo Ruhnke - OERLIKON)
- Large Area (LA) — HiPIMS Scale-Up Challenges (Mathias Schlenkrich - HZB-HELMHOLTZ GmbH)
- Characterization, Testing, and Failure Analysis (CT) — In-Situ and In-Vivo Characterization of Thin Film Coatings in Functional Thin Films (Ludvik Martinu - Polytechnique Montreal)
- Characterization, Testing, and Failure Analysis (CT) — Experimental Study of Low Thickness Coating Deposition and Wetting of Automotive Steel Sink for Bipolar Plates Considering Roughness and Surface Energy Effects (Eng Gabelle - Polytechnique Montreal)
- Characterization, Testing, and Failure Analysis (Invited) — Surface Coating, Treatment, and Analysis of Materials for Medical Devices (Bernard Kelly - Consultant)
- Characterization, Testing, and Failure Analysis (CT) — Influence of Laser, Ion Beam, and Plasma Treatment Steps Prior to the Tribological Behavior of DLC Coatings (Ian Wilson - Universidad Pública de Navarra (UPNA))
- Plasma Processing and Diagnostics (Invited) — Continuous PVD Roll-to-Roll Processed Materials for Fuel Cells: Ultra Low Platinum Loadings, Non-Noble Catalysts and Interconnects for PEM/SOFC Applications (Gustaf Sjöblom - Alleese)
- Plasma Processing and Diagnostics (Invited) — Continuous Roll-to-Roll Processed Materials for Fuel Cells: Ultra Low Platinum Loadings, Non-Noble Catalysts and Interconnects for PEM/SOFC Applications (Gustaf Sjöblom - Alleese)
- Plasma Processing and Diagnostics (PP) — Low Temperature Plasma Assisted Atomic Layer Deposition of LiPON for Thin Film Batteries Applications (Peter Polak - Plasmas Corporate Materials 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)
- HiPIMS (PP) — Comparative Study of Growth and Properties of Thin Films Prepared by Non-Reactive Deposited Al Reaction Zr/Al and HiPIMS (Jesus Ochola - Pantaco Coating Technologies GmbH & Co. KG)
- HiPIMS (PP) — Antimicrobial Efficiency and Durability of Nanostructured HiPIMS Deposited Nanoscale Multilayer TiN/MoN Coatings (Andrea P. Ehiasarian - Sheffield Hallam University)
- HiPIMS (PP) — 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 (AMF) — Advanced Active and Inactive Cooling Technologies Integrated into and Using of Coatings for Electronic Components and ICE Applications (Jitesyn "Stanley" Ehiasarian - Argonne National Laboratory)
- Advanced Multifunctional Coatings (AMF) — Synthesized Oxide Thin – Film Electrolytes Coatings for Solid-State Batteries for On-Chip Energy Storage (Zach Hugenberg - Forge Nano)
- Advanced Multifunctional Coatings (AMF) — Lightweight Thermal Ultra Critical Time Sensor by a Beam Plasma Source (Fabiola Arenas - Pyrojoc University) (pre-recorded video presentation)
- Advanced Multifunctional Coatings (AMF) — Vacuum-Evaporated Composite Copper Foil for Lithium-Ion Batteries: Fabrication and Performance (Sun Liu/Shenzhong Li - Northeastern University China)
- Advanced Multifunctional Coatings (AMF) — Multifunctional Nanocomposite Coatings Based on DLC for Optical Applications (Ali Erdemir - Argonne National Laboratory and Dr. Giovanni Zangari - University of Virginia)

12:20 PM – 12:40 PM: 20 minute refreshment break

12:40 PM – 1:40 PM: 40 minute passing / lunch break

1:40 PM – 2:40 PM: **Don Mattox Tutorial (LBCC Promenade 104 B)**
From Poisoned Targets to Healthy Models: The Quest for Parameters
(Diederik Depla - Ghent University)

2:40 PM – 3:40 PM: 10 minute passing break

3:40 PM – 4:40 PM:
- Large Area (Invited) — Mass Production of Inorganic and Organic Coatings for Display Cover Glass (Brian Hoheisen - Corning Inc.)
- Large Area (LA) — Beam Plasma Source Enhanced Deposition of High- and Low-Index Oxide Thin Films (Junwen Lee - Michigan State University)
- Large Area (LA) — Exciting Large Area Advanced Packaging Through Optical In-Situ Metrology in Sputter Deposition (Helge Hadamczik - Leybold AG)
- Characterization, Testing, and Failure Analysis (CT) — Intlis: Optical Pyrometer Enhancing Measurement for Thin Film Processing (Tim Stocker - Industrial Design)
- Characterization, Testing, and Failure Analysis (CT) — Emergent Superconductivity Superimposed in WTe2 with Short-Mean-Free-Path Electrons (Ke-Jian Sofie - Korea Research Institute of Standards and Science)
- Characterization, Testing, and Failure Analysis (CT) — Controlled Growth of 3D Ultra-Low Tensile Magnetic and Electrical Properties (Zhong-Kuei Chu - National University of Tenaan)
- Characterization, Testing, and Failure Analysis (CT) — Optical Characterization, and the Growth of Ultra Thin Metal Films (Ziyg Zabeida - Polytechnique Montreal)
- Coatings and Processes for Biomedical Applications (BP) — Estimating the Lifetime of the Antimicrobial Property of Silver Containing Thin Films Using Accelerated Thermal Treatment (Nanomechanical Devices (Sweer Dilgerin - Rowan University)
- Coatings and Processes for Biomedical Applications (BP) — Hierarchically Nanostructured Titanium Electrodes with Integrated Antibacterial Functionality for Non-Antimicrobial-Implantable Applications (Nick Farahat - Drexel University)
- Coatings and Processes for Biomedical Applications (Invited) — From Tatooers to Biotech - Closing the Loop with Thin Films. (Matthias Wagner)
- Tens 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 Wu - Feng Chia University) SPONSORED STUDENT PRESENTATION
- HiPIMS (HP) — Advanced HiPIMS Coatings Deposition Using High Performance Cutting Tools (Ivdal Fangzun Pina Vanessa (Yahav Chen - Guangdong Huizhong vacuotechnology)
- 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"

4:40 PM – 5:40 PM:
- Large Area (LA) — Reliable Microstructural Characterization of Vacuum Coatings: Beyond Porosity to Recrystallization and Growth Twinning (Patrik Hultqvist - Anton Paar USA Inc.)
- Large Area (LA) — Arc Evaporation Technology for Large Area Coating Applications (Marcus Wennerberg - HVM-VACUTECH GmbH)
- 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)

5:40 PM – 6:00 PM: 20 minute break

6:00 PM – 10:00 PM:
- **Sunset Meeting Forums**
  - **SMF: Advanced Deposition Coating Hardware** — Frank Papa (GP 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) / C. Stoessel (Stoessel Consulting) — Long Beach Convention Center Promenade: 102 B
  - **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 (SEQL 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 Schingnel (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

7:30 AM – 8:30 AM

LBCC Promenade 104A (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)

8:30 AM – 9:30 AM: 10 minute passing break

9:30 AM – 10:30 AM: **Awards Ceremony (LBCC Promenade 104 B)**
8:40-9:20 AM

10:30 AM – 10:40 AM: 10 minute passing break

10:40 AM – 12:00 PM:
- Advanced Multifunctional Coatings (Invited) — Powder Atomic Layer Deposition at the Commercial Scale for Lithium-Ion Batteries (Christopher Ramp - Forge Nano)
- Advanced Multifunctional Coatings (AMF) — Composite Salicylate Electrodeposited Coatings - Insights, Opportunities, and Commercial Roadmap (Helmut Kwall - Tri Wave)
- Advanced Multifunctional Coatings (AMF) — Stabilizing Lithium Metal Anodes with Vacuum-Deposited PFT+Cu Composite Current Collectors (Xiaofang Jia - Northeastern University China)
- Organic and Perovskite Electronics (Invited) — Achieving Compositional Stability in Perovskite Thin Films by Physical Vapor Deposition (Jay Patel - King's College London)
- Organic and Perovskite Electronics (OP) — Monitoring Interfacial Reconstruction Losses in Perovskite Solar Cells Using Operando Photoluminescence Quantum Efficiency (Dr. Dmitry Dunaevskiy - University of Twente) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OP) — High Voltage All-Inorganic Lead-Free Inorganic Perovskite Photovoltaic Cells (Hafiz Muhammad Usman Ghani Jandoubi - Sabancı University) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OP) — Thermal Co-Evaporation of Thin Film Photodiodes by the Cluster Source (Jim Van Schoonveld - Ulvac)
- Organic and Perovskite Electronics (OP) — Toward Intelligent In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights (Vedje Hakansel - LayTechS)
- Process Monitoring, Control, and Automation (PC) — From Legacy to Industry 4.0: Retrofitting Vacuum Coaters with Edge Control Monitoring (Michael Hohmann - SCANLOG GmbH)
- Process Monitoring, Control, and Automation (PC) — Transforming Process Monitoring and Control: Advanced Chamber Diagnostics (Pedro Reyes Santiago - VAT Vakuumventile AG)
- Process Monitoring, Control, and Automation (PC) — Beyond Traditional High Power Impulse Magnetron Sputtering (Dan Boychenko - Trumpf Hüttinger GmbH + Co. KG)
- Process Monitoring, Control, and Automation (PC) — Pure, Highly Responsive Process Monitoring Control for Atomic Layer Processes (Brian Pinney - Brooks Instrument)
- Process Monitoring, Control, and Automation (PC) — Pulse-Resolved Spectroscopy Enhancing Process Control (Thomas Schalkx - PLASUS GmbH)
- Process Monitoring, Control, and Automation (PC) — PP-Assisted HiPIMS on a Single Target: Discharge Stability and Deposition Rate Enhancement for Dielectric Films (Frank Durst - Trale Group)
- Process Monitoring, Control, and Automation (PC) — Toward Intelligent In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights (Vedje Hakansel - LayTechS)
- This Film Contributions for the Hydrogen Economy (THF) — Hydrogen - Born or Burn? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up (Nadim Rajman - Schaeffler Technologies)
- This Film Contributions for the Hydrogen Economy (THF) — Replacing Tribaloys by Thermal Spray Coatings for PEM Electrolyzers (Ralf Bandorf - Fraunhofer IST)
- This Film Contributions for the Hydrogen Economy (THF) — PVD Coatings for the Hydrogen economy - Applications, Testing Methods and Practical Implications (Herbert Gabler - VAT)
- This Film Contributions for the Hydrogen Economy (THF) — Carrotating Deposition Fixtures with Structure and Sensing Performances to Fit This Hydrogen Sensors (Jérôme Pulpin - Université Grenoble Alpes) (pre-recorded video presentation)
- This Film Contributions for the Hydrogen Economy (THF) — Thin Film Coated Wires for Hydrogen Sensing: Optimized Layered TiN Films for Resulting Gold. Ni Bipolar Plates in PEM Fuel Cells Using HiPIMS(P + Positive Etch" (Brian Jurczyk - Starfire Industries LLC)

12:00 PM – 12:20 PM: 20 minute refreshment break

12:20 PM – 1:20 PM:
- Exhibitor Innovator Showcase (EIS) — Exciting News From OIP Technical Products (Marcel Kaiser - OIP Technical Products)
- Exhibitor Innovator Showcase (EIS) — Improving Throughput and Film Quality with the Modern, Efficient Mass Flow Controller Technology Platform (Gerard Langlais - Edwards Vacuum)
- Exhibitor Innovator Showcase (EIS) — New Plasma Source Technology to Help Carbon Global Supply Chain Decarbonize and Material Price Increase (Dermot Monaghan - Gensco Ltd)
- Exhibitor Innovator Showcase (EIS) — Dual Output, Half Bio Footprint, Full Control in Sealless Reactive Sputtering Power Supply Technology Platform Compatible with PVD and Advanced Arc Control for Faster Reporting and Lower CAPEX (Radu Krasnicki - TRUMPF Huettinger)
- Exhibitor Innovator Showcase (EIS) — Integrated Mechanical Cleaning and Surface Preparation Solutions for Vacuum Coatings (Perth 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)
- Process Monitoring, Control, and Automation (PC) — Industrial HiPIMS – Process Challenges, Tools and Innovations (Rafael Sanchez Rodriguez - Sumasolva)
- Process Monitoring, Control, and Automation (PC) — 60 MHz/1 MHz Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via (Tsung-Hao Chen - Feng Chia University)
- Process Monitoring, Control, and Automation (PC) — HiPIMS(P + Positive Etch" Enhancing Coatings on Inner Surface of Small Diameter Long Tubing (Ivan Shchelokova - Starfire Industries)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring and Control: Advanced Chamber Diagnostics (Pedro Reyes Santiago - VAT Vakuumventile AG)
- This Film Contributions for the Hydrogen Economy (THF) — Hydrogen - Born or Burn? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up (Nadim Rajman - Schaeffler Technologies)
- This Film Contributions for the Hydrogen Economy (THF) — Replacing Tribaloys by Thermal Spray Coatings for PEM Electrolyzers (Ralf Bandorf - Fraunhofer IST)
- This Film Contributions for the Hydrogen Economy (THF) — Thin Film Coated Wires for Hydrogen Sensing: Optimized Layered TiN Films for Resulting Gold. Ni Bipolar Plates in PEM Fuel Cells Using HiPIMS(P + Positive Etch" (Brian Jurczyk - Starfire Industries LLC)

1:20 PM – 2:30 PM: **10:00 AM Exhibitor B2B Coffee Hour**
11:00 AM Exhibit Hall Opens

2:30 PM – 4:30 PM: **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 Li-Ion (Yuri Glukhoy - Nanocoating Plasma Systems)
- POSTER (P3): Front Contact (TCO/Ag/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 Microsphere for Advanced Manufacturing (Rita Shulman - Los Alamos National Laboratory)
- POSTER (P5): Influence of Ir Beam Evaporation Parameters on Coating Phase Transformation (Sun Liu - Northeastern University China)
- POSTER (P6): Study on the Band Strength of Flexible Film Substrates (Sun Liu - Northeastern University China)
- POSTER (P7): Simulation Toolbox for Thin Film Coating: From Plasma and Gas Flux to Sputtered Particles, Wetting and Layer Thickness (Eric Vyblihardt - Fraunhofer IST)

4:30 PM – 5:30 PM: **Welcome Reception (Exhibit Hall)**
5:00 - 6:00 PM

5:30 PM: **Exhibit Hall Closes: 6:00 PM**

Wednesday (April 29, 2026)

TAC Breakfast Meetings

- (1) Large Area Coatings TWG & (2) Large Area Advanced Packaging and Integrated Photonics TWG — Hyatt Regency: Seaview Ballroom A
- (1) High Power Impulse Magnetron Sputtering (HiPIMS) TWG & (2) Photonics, Tribological, and Decorative Coatings TWG & (3) Thin Film Contributions for the Hydrogen Economy TWG — Long Beach Convention Center Promenade: 102 A
- (1) Plasma Processing and Diagnostics TWG & (2) Atomic Layer Processing TWG — Long Beach Convention Center Promenade: 102 B
- (1) WebTech Roll-to-Roll Technologies and Innovation TWG & (2) Emerging and Transitional Technologies and Applications TWG — Long Beach Convention Center Promenade: 102 C
- (1) Optical Coatings TWG & (2) Photonically-Induced Transformations of Thin Films and Surfaces TWG — Long Beach Convention Center Promenade: 102 D
- (1) Electron Beam Processes TWG & (2) Coatings for Energy Conversion and Related Processes TWG — Hyatt Regency: Seaview Ballroom A
- (1) Advanced Multifunctional Coatings TWG & (2) Advances in Thin Film Sensor Technologies TWG — Hyatt Regency: Seaview Ballroom B
- (1) Digital Transformation through AI, Machine Learning, Simulation and Data Science TWG & (2) Process Monitoring Control and Automation TWG — Hyatt Regency: Seaview Ballroom C
- (1) Characterization, Testing, and Failure Analysis of Thin Films TWG & (2) Coatings and Processes for Biomedical Applications TWG — Hyatt Regency: Shoreline A
- (1) Organic and Perovskite Electronics TWG & (2) Quantum Computing TWG — Hyatt Regency: Shoreline B

7:30 AM – 8:30 AM

LBCC Promenade 104A (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)

8:30 AM – 9:30 AM: 10 minute passing break

9:30 AM – 10:30 AM: **Keynote (LBCC Promenade 104 B)**
Fano-Resonant Optical Coatings and Applications
(Chunlei Guo - University of Rochester)

10:30 AM – 10:40 AM: 10 minute passing break

10:40 AM – 12:00 PM:
- Exhibitor Innovator Showcase (EIS) — The Benefits of Moving Plasma PVD Source Technology (Sara Marcela Giac - Genesis Ltd)
- Exhibitor Innovator Showcase (EIS) — Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Demanding Applications (Anna-Mihaela Dinescuc - TRUMPF Huettinger Sp. z o.o.)
- Exhibitor Innovator Showcase (EIS) — Next-Generation Rotary Sensor Technology for Demanding Vacuum Coating Applications (Sheldon Wayman - INFICON)
- Emerging and Transitional Technologies (ET) — Hybrid Deposition Technology for Ultra-Low Friction Coatings (Karl Spering - Kolver Alumina Solar Lasers)
- Emerging and Transitional Technologies (ET) — Industrial Scale-Up of Reactive Magnetron Sputtering of Nitrids: Overcomming Coating Long Optical Emission Spectroscopy (Ronald Lange - Evangelisches Hochschule Darmstadt)
- Emerging and Transitional Technologies (ET) — Industrial Scale-Up of Reactive Magnetron Sputtering of Nitrids: Overcomming Coating Long Optical Emission Spectroscopy (Michael Lucas - Università di Montreal)
- Process Monitoring, Control, and Automation (PC) — Electrical Characterization of Dielectric Films Using Non-Contact Corona Charge (Jeffrey Hatcher - Fraunhofer IPMS)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring, Control, and Automation (PC) — Industrial Scale-Up of Reactive Magnetron Sputtering of Nitrids: Overcomming Coating Long Optical Emission Spectroscopy (Chunlei Guo - University of Rochester)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring, Control, and Automation (PC) — Electrical Characterization of Dielectric Films Using Non-Contact Corona Charge (Jeffrey Hatcher - Fraunhofer IPMS)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring, Control, and Automation (PC) — Beyond Set Gauges: Process Control Using Non-Contact Pressure Sensing for Modern Coating Systems (Jacques Christiaanse - Sensor A/S)
- Process Monitoring, Control, and Automation (PC) — In-Vacuum Color Monitoring to Improve Process Repeatability in Optical Coating Manufacturing (Jan-Peter Schaub - PLASUS GmbH)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring, Control, and Automation (PC) — Non-Contaminant Particle Monitoring During Thin Film Deposition Processes for Improved Production Yields (Sylvain LeCachey - ARS)
- Optical (OP) — Active Nanostructured Optical Coatings for Energy, Exposure and Sensing (Jean-Pierre Delsca - Nanomatériaux Mentonnais)
- Optical (OP) — Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Nitride Films Using Plasma Chemistry and Thermoelectric Film Stress (Liang Sun - Air Force Research Laboratory)
- Optical (OP) — Ultra-Low Coating Thermal Noise Reflectors: The Case of Hydrogenated Amorphous Silicon for Gravitational Wave Detectors (Alexandre Lussier - Université de Montréal) SPONSORED STUDENT PRESENTATION
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling Higher Productivity and Low Cost of Ownership (Anna-Mihaela Dinescuc - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — A Scalable HiPIMS Process for Uniform Ultra-Low Stress Copper High-Aspect-Ratio Vias (Yifan Shan - TRUMPF Huettinger GmbH + Co. KG)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Open Source Roll-to-Roll Vacuum Deposition Beam Process Modeling Using VCore (Ante Mitus - Jackpine - Jackpine Jackpine Aerospace GmbH)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling Higher Productivity and Low Cost of Ownership (Anna-Mihaela Dinescuc - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Spatial Thin Film Unique Feature For Sensor Phasing Integrated Circuits (Thaiya "Pete" Supawan - Omnicor Co. Ltd.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Optical Engine and Thin Film Nanophotonics (Mohamed Elbakouch - University of Arizona) (pre-recorded video presentation)

12:00 PM – 12:20 PM: 20 minute refreshment break

12:20 PM – 1:20 PM:
- Exhibitor Innovator Showcase (EIS) — Inergizer and Metaphenomen Sputtering Targets for Semiconductor Manufacturing Enabling Higher Productivity and Low Cost of Ownership (Richard Gabriel - PVT Plasma and Vacuum Technik GmbH) (pre-recorded video presentation)
- Exhibitor Innovator Showcase (EIS) — A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Cathode DCMEMO (Bruno Dzeworski - Cathode Bakers Coating USA)
- Exhibitor Innovator Showcase (EIS) — X-ray Diffraction and X-ray Reflectivity for Thin Film Phase Identification - Recipes and Tools for Phase Identification (Lawrence Anderson - Chemtel)
- Exhibitor Innovator Showcase (EIS) — Next-Generation Industrial Vacuum Coating Equipment: Advancing Semiconductor Thin Film Deposition Through Robotic Integration (Zhiming Luo - Guangdong Huizhong Vacuum Technology Co.,Ltd)
- Optical (OP) — Physisolbased, Plasmachemical Corrosion Masks for Large-Area Magnetronsputtered Optical Coatings (Chun-Jen Tung - Feng Chia University)
- Optical (OP) — Recent Innovations in Optical Coating Design Software (Michael Trubetskov - OTF Studio GmbH)
- Optical (OP) — Harnessing Multiregime Plasma Dynamics in Hi-Impulsmagnet HiPIMS for Dense and Low-Stress Optical Films (Rajesh Dorwar - Aveksa Coating Technologies GmbH & Co KG)
- Optical (OP) — Development of Reflective Optical Coatings Using a Semi-Automated Spectroscopic Phase Measurement System (Christopher Cook - Edmund Optics)
- Optical (OP) — High-Consistency Vacuum Coating Equipment and Process Platform for Large-Area Optical Components (Zhiling Li - Guangdong Huizhong Vacuum Technology Co., Ltd.)

1:20 PM – 2:00 PM: **9:00 AM Exhibitor Meeting**
10:00 AM Exhibit Hall Opens

2:00 PM: **2:00 PM Beer Blast**

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

5:00 PM: **Exhibit Hall Closes at 4:00 PM**

6:30 PM – 7:30 PM: **Free Time**
4:00 - 5:30 PM

7:30 PM – 10:00 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)
Long Beach Convention Center Promenade: 102 A

TFB: Protective, Reflective, and Decorative Coatings
Martin Engelb (Inotherm) / Arno Shallow (Avalume)
Long Beach Convention Center Promenade: 102 B

TFB: Digital Transformation of Industrial Deposition Processes
Holger Gerdes (Fraunhofer-IST) / Thomas Schalkx (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 Sauger (Fraunhofer-FEP) / Matthias Neumann (Von Ardenne)
Hyatt Regency: Seaview Ballroom C

7:30 AM – 8:30 AM

LBCC Promenade 104A (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)

8:30 AM – 9:30 AM: 10 minute passing break

9:30 AM – 10:30 AM: **Keynote (LBCC Promenade 104B)**
Plasma Technologies for Precision and Large-Scale Surface Engineering
(Elisabeth von Hauff - Fraunhofer-FEP)

10:30 AM – 10:40 AM: 10 minute passing break

10:40 AM – 12:00 PM:
- Electron Beam Processes (EB) — High Rate Plasma-Activated EB PVD for Graphite-Filled Composite Bipolar Plates (Stefan Sauger - Fraunhofer-IST)
- Electron Beam Processes (Invited) — Vacuum Electron Beam Technology Developments in Equipment and Process Technology for Wire and Wire Plasma Deposition (Philip Bergin - VON ARDENNE GmbH)
- Electron Beam Processes (EB) — Open Source Roll-to-Roll Vacuum Deposition Beam Process Modeling Using VCore (Ante Mitus - Jackpine - Jackpine Jackpine Aerospace GmbH)
- Atomic Layer Processing (Invited) — Directional Atomic Layer Etching of Lithium Niobate Using Plasma Chemistry (Austin Minnich - Caltech)
- Atomic Layer Processing (AL) — Cleaning Carbon Contaminated Surfaces Using Atomic Hydrogen (Hidde Cuppen - Chemtrade Logistics)
- Atomic Layer Processing (AL) — Low Reactivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects (Sara Sorin - Forge Nano)
- Optical (OP) — Linear Ion Beam Assisted Deposition Sputtering (Ewald Bevorchen - AMPHIL Ag.)
- Optical (OP) — Revolutionizing Optical Coatings Workflow: Hyper-Dispersion Rates and Thermal Stability (Ivan Shchelokova - Starfire Industries)
- Optical (Invited) — State of the Art of Ion Beam Sputtering and Recent Improvements for the Manufacturing of Precision Optics and Other Applications (Laurent Pinot - Laboratoire des Materiaux Avances - CNRS)
- Overflow (OP)
- Protective, Tribological, and Decorative Coatings (TT) — Arc and Sputter Coatings for Tribological Applications (Kenneth Sundberg - Sandvik)
- Protective, Tribological, and Decorative Coatings (TT) — Hybrid Sputtering (Jun-Hyeon Lee - Korea Institute of Materials Science (KIMS))

12:00 PM – 12:20 PM: 20 minute refreshment break

12:20 PM – 1:20 PM:
- Atomic Layer Processing (AL) — Controlling the Crystallinity of Ga2O3 Deposited by Plasma-Enhanced Atomic Layer Deposition (Sunk Mohan - U.S. Naval Research Laboratory)
- Digital Transformation (DT) — Predicting Film Homogeneity in Large-Area Sputtering: DFG-Accelerated Multi-Species Transport and Energy Distribution Modeling (Patrick Morse - Arizona Thin Film Research LLC)
- Digital Transformation (DT) — Particle-Based Simulation of Reactive Magnetron Sputtering in an Industrial Glass Coating Chamber Using the Open Source FLOW MUSCLE Solver (Paul Shoenhair - Sadiqlab - numerical plasma dynamics GmbH)
- Digital Transformation (DT) — Navigating Digital Transformation in an Established Industrial Environment: Data, Simulation, and the Strategy Road Ahead (Alexander Ebner - Hauck Pulver GmbH)
- Optical Colloquium "A Manufacturer's Guide to Coatings for High Power Lasers"
- Protective, Tribological, and Decorative Coatings (TT) — Hot Filament Chemical Vapor Deposition of Diamond Coatings (Jeffrey Barlow - Consultant Inc)
- Protective, Tribological, and Decorative Coatings (TT) — Innovative PVD Coatings – From Film Field to the Future (Martin Engelb - Inotherm Beschichtungen K.S.)

1:20 PM – 2:40 PM: 40 minute Lunch break

2:40 PM – 3:40 PM:
- Photonically-Induced Transformations of Thin Films (Photina) — Optimization of CIGSE Vertical-Junction Silicon Etching for Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors (Sumit Gonsalves - University of Oklahoma)
- Photonically-Induced Transformations of Thin Films (Invited) — Process-Based Programming of Spatially Varying Nanoscribes Propertie Gradients in Thin Film Materials Using Laser Processing (Rhizelle Bulosan - University of Pittsburgh)
- Overflow (OP)
- Sensors (SE) — Versatile Electronic Sensor 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 Synthesis and Sensing Applications (Mohamed Ali Ben Mabrouk - University of Sfax)
- Optical (OP) — Epitaxial Growth from a Thermal Evaporant: Highly Active Arsenic Sulfide Optical Thin Films (Kyle Frischknecht - University of Toledo) SPONSOR