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 (C7) — In-Situ and In-Vivo Characterization in Functional Thin Films (Judith Hinkelmann - Polytechnique Montreal)
- Characterization, Testing, and Failure Analysis (C7) — Experimental Study of Laser Thin Film Surface Softening and Wrinkling of Aluminum Hard Disk for Bipolar Plates (Christoph Zwanzig - Fraunhofer Institute for Laser Technology, Germany) SPONSORED STUDENT PRESENTATION
- Characterization, Testing, and Failure Analysis (Invited) — Surface Coating, Treatment, and Analysis of Materials for Medical Devices (Bernard Nemutudi - Medtronic) (recorded video presentation)
- Characterization, Testing, and Failure Analysis (C7) — Influence of Laser, Ability, Source and Pulse Repeated Arcs Events on the Tribological Behavior of AlCrN Coating (Ner Alfonso - Universidad Pública de Navarra (UPNA)) SPONSORED STUDENT PRESENTATION
- Large Area (L7) — Vacuum-Deposited Coatings for Flexible Thin Film Batteries (Nassim Bumanglag - ISMPA)
- Large Area (L7) — Reliable Mechanical Characterization of Vacuum Coatings: Best Practices in Nanoindentation and Scratch Testing (Parth Kotak - Anton Paar USA Inc.)
- Characterization, Testing, and Failure Analysis (C7) — Arc Evaporated Nanocomposite Coatings for Wear Protection (Marcus Ahlgren - Oerlikon Balzers)
- Plasma Processing and Diagnostics (PP) — Results Using a Specialized ZGN AGLE and a Related Remote-Control System Demonstrated for the PTO ERDLA System (Mark Manus - Del Mar Photonics)
- Plasma Processing and Diagnostics (PP) — Tuning the Properties of PTAD Films Prepared by Ion Beam Assisted Depositions Using Different Precursors (Oleg Zabeida - Polytechnique Montreal)
- Plasma Processing and Diagnostics (PP) — Time-Resolved OES Diagnostics of Gas Phase Sputtering Using a Copper Target (Jui-Chen Chang - Lehigh University) SPONSORED STUDENT PRESENTATION
- Plasma Processing and Diagnostics (Invited) — Continuous PVD Roll-to-Roll Processed Materials for Fuel Cells: Ultra-Low Platinum Catalyst Layers for Improved Performance and Interconnects for PEMA/SOFC Applications (Kunal Sabnis - Alleno)
- Plasma Processing and Diagnostics (PP) — Arc Evaporation Plasma Characterization Using Cathode Target As Optical Emission Spectroscopy Source (Maria Mitseva - INFILTA-Kathen University)
- Plasma Processing and Diagnostics (PP) — Graphene Oxide Thin Film Fabrication by Pulsed DC Deposition of GRON for Thin Film Batteries Applications (Peter Polak - Plasmas Composite Materials Sarl)
- HiPIMS (HiP) — HiPIMS: Technology with Industry Involution acceleratedly Viable (Chenxing Tinsel - Shi Jia Zhuang Ke Ke Co.,Ltd)
- HiPIMS (HiP) — Compression Study of Tunnel Phenomena in Pulsed Sputtering Plasmas (Ralf Bandorf - Fraunhofer IST)
- HiPIMS (HiP) — Ultra-Dense Cr Coatings Deposited by Ion Assisted Deposition (IAD) and HiPIMS (Jesus Ocelotl - Aerlaze Coating Technologies Gmbh & Co. KG)
- HiPIMS (HiP) — Antimicrobial Efficacy and Durability of Nanostructured HiPIMS Deposited Nanoscale Multilayer TiN/MoN Coatings (Andrea P. Ehiasarian - Sheffield Hallam University)
- HiPIMS (HiP) — Real-Time Optimization of HiPIMS Processes Using Pulse-Resolved Spectroscopy and Machine Learning Based Process 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 to Improve Life and Safety of Industrial Electronics, Automotive and Grid Applications (Ralph Kodner - Argonne National Laboratory)
- Advanced Multifunctional Coatings (AMF) — Sputtered Oxide Thin-Film Coatings Deposited on Substrates for Do-On-Plug Energy Storage (Jose Nogueira - Politecnico di Milano)
- Advanced Multifunctional Coatings (AMF) — Hydrogenated Fractional Ultra Carbon Films Grown by a Beam Plasma Source (Fabiola Aranda - Agenia 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) — Sputtered Thin Film Solid Electrolyte Coatings for DC Deposition of LiPON for Thin Film Batteries Applications (Peter Polak - Plasmas Composite Materials Sarl)
- Advanced Multifunctional Coatings (AMF) — Multifunctional Coatings Deposited by Pulsed Laser Deposition on Optimized Weathering and UV Exposure (Luca Magagnin - Politecnico di Milano)

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 Hatcher - Corning Inc.)
- Characterization, Testing, and Failure Analysis (C7) — Insitu Optical Pyrometer Emissivity Measurement for Thin Film Processes (Tim Studer - Industrial Image)
- Characterization, Testing, and Failure Analysis (C7) — Emergent Superparamagnetic Superconductivity in WTe2 with Silver Mesoscale Microstructure (Ho-Sam Sofo - Korea Research Institute of Standards and Science)
- Characterization, Testing, and Failure Analysis (C7) — Controlled Synthesis of 3d Transition Metals Magnetic and Superconductive Nanowires (Zhong-Kai Chu - National University of Taiwan)
- Characterization, Testing, and Failure Analysis (C7) — Exploring Large-Area Advanced Packaging Through Optical In-Situ Metrology in Sputter Deposition (Helge Hubertus - Leybold - AGC)
- Characterization, Testing, and Failure Analysis (C7) — Optical Characterization of the Growth of Ultra Thin Metal Films (Oleg Zabeida - Polytechnique Montreal)
- Coatings and Processes for Biomedical Applications (BP) — Estimating the Lifetime of the Antimicrobial Property of Silver Containing Thin Films Deposited by Magnetron Sputtered Remanufactured Aluminocathodical Devices (Jesser Dégirmenci - Rowan University)
- Coatings and Processes for Biomedical Applications (BP) — Microstrictally Restructured Titanium Electrodes with Improved Antibacterial Functionality for Non-Antimicrobial Implantable Applications (Nirit Fanobal - Drexel University)
- Coatings and Processes for Biomedical Applications (Invited) — From Vacuum to Biotech - Closing the Loop with Thin Films (Matthias Wagner)
- Coatings and Processes for Biomedical Applications (Invited) — Bone Tolerance to Biomaterials - Closing the Loop with Thin Films (Matthias Wagner)
- HiPIMS (HiP) — Through-Glass Via Metallization by Using HiPIMS Copper Layer (Dongchao Wei - Hong Chin University) SPONSORED STUDENT PRESENTATION
- HiPIMS (HiP) — Advanced HiPIMS Coatings Deposited on High Performance Cutting Tools: Field Exposure Prior Known (Yahia Chen - Guangdong Huizheng nanotechnology)
- HiPIMS (HiP) — Reactive Sputtering Discharge Dynamics by Pulse Sequencing in Multi-Pulse HiPIMS (Erdong Chen - Tokyo Metropolitan University)
- SIG Strategic Technologies and Markets Colloquium "The challenges of transitioning to sustainable surface engineering practices"
- Photonically-Induced Transformations of Thin Films (Invited) — Photonic Post-Processing of Printed Inks on Flexible Substrates (Mark Fedko - SUNY Binghamton University)

20 minute refreshment break

- Large Area (L7) — Reliable Manufacturing of Aluminum-Magnesium-Ceramic Glass via Physical Vapor Deposition Lithography (Sunwoo Ding - Lightconversion Corp.)
- Large Area (L7) — Giga Large - Prediction and Optimization of Layer Thickness Distribution for Large Area Coating Equipment in Manufacturing (Eric Feldmann - Fraunhofer IST)
- Large Area (L7) — High Throughput Large-Area Coating Using a Carousel-Type Sputtering System (Takuya Sugawara - Shincron Co., Ltd.)
- Large Area (L7) — Process Improvements for Large Area Deposition of TiO2 Thin Films on Flexible Substrates Using Roll-to-Roll Technology (Mike Simmons - Intellisense LLC)
- Characterization, Testing, and Failure Analysis (Invited) — New Developments in Spectroscopic Ellipsometry (James Hilfiker - J.A. Woollam Co)
- Characterization, Testing, and Failure Analysis (C7) — Advanced Optical Characterization of Thin Films (Matthew Linford - Brigham Young University)
- Characterization, Testing, and Failure Analysis (C7) — Correlated Cathodoluminescence and Electron Backscattered Imaging to Evaluate Thin Films (Xiaoxin Zhu - Gatan)
- Overflow (OP)
- Quantum Computing (Invited) — Complete Hamiltonian Control with Multi-Mode Superconducting Circuits (Eli Levenson-Falk - University of Southern California)
- Overflow (OP)
- HiPIMS Colloquium "The Innovation Spiral of HiPIMS Towards Industrialization"
- Overflow (OP)
- Overflow (OP)
- Photonically-Induced Transformations of Thin Films (Invited) — Photonic Post-Processing of Printed Inks on Flexible Substrates (Mark Fedko - SUNY Binghamton University)
- Overflow (OP)
- Overflow (OP)

20 minute break

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) / J. Alami (UMJP)
Long Beach Convention Center Promenade: 102 B

SMF: Characterisation, 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-IKTS)
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 Naylor (Kurt J. Lesker Company)/ Jimmy Haight (Demicone)
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

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 Ramp - Forge Nano)
- Advanced Multifunctional Coatings (AMF) — Composite Hydrogels Prevention Tooling of TiN and CrN Coatings - Angelo Ferrario (Politecnico di Torino - Advanced Biomaterials Group) (Helmut Riedl - TU Wien)
- Advanced Multifunctional Coatings (AMF) — 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)
- Overflow (OP)
- Organic and Perovskite Electronics (OP) — Monitoring Interfacial Reconstruction Losses in Perovskite Solar Cells Fabricated by Vacuum Thermal Evaporation (Dr. Ahmed Shaker - University of Tishreen) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OP) — High Voltage All-Evaporated Lead-Free Inorganic Perovskite Photovoltaic Stacks (Rafic Ajluni - Kansas State University) SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OP) — Thermal Co-Evaporation of Thin Film Photoresists by the Course-Grained Approach (Jim Fan - University of Oxford)
- Organic and Perovskite Electronics (OP) — Toward Intelligent In-Situ Metrology: From Real-Time Data to Actionable Process Control (Hadi Ghasemi - h-Spectra Associates)
- 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, Control, and Automation Solutions for Advanced Sputtering Applications (Pedro Reyes Santiago - VAT Vakuumventile AG)
- HiPIMS (HiP) — HiPIMS/P³ – Practical Implementation of Pulse Pattern Control (Jan Dickehuhn - Starfire Industries)
- HiPIMS (HiP) — Industrial HiPIMS – Process Challenges, Tools and Innovations (Rafael Stelzhan - Hüttinger)
- HiPIMS (HiP) — 60 MHz/1 MHz Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via (Tsung-Hao Chen - Feng Chia University)
- HiPIMS (HiP) — Advanced Multilayer Coatings on Inner Surface of Small Diameter Long Tubing (Jan Dickehuhn - Starfire Industries)
- This Film Contributions for the Hydrogen Economy (THE) — Hydrogen: Boon or Bane? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up (Nadim Rajman - Schaeffler Technologies)
- This Film Contributions for the Hydrogen Economy (THE) — Replacing Tribaloy by Thermal Spray Coatings for Hydrogen Valves (Ralf Bandorf - Fraunhofer IST)

20 minute refreshment break

- Advanced Multifunctional Coatings (Invited) — Advanced Active and Inactive Cooling Technologies to Improve Life and Safety of Industrial Electronics, Automotive and Grid Applications (Ralph Kodner - Argonne National Laboratory)
- Advanced Multifunctional Coatings (AMF) — Sputtered Oxide Thin-Film Coatings Deposited on Substrates for Do-On-Plug Energy Storage (Jose Nogueira - Politecnico di Milano)
- Advanced Multifunctional Coatings (AMF) — Hydrogenated Fractional Ultra Carbon Films Grown by a Beam Plasma Source (Fabiola Aranda - Agenia 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) — Sputtered Thin Film Solid Electrolyte Coatings for DC Deposition of LiPON for Thin Film Batteries Applications (Peter Polak - Plasmas Composite Materials Sarl)
- Advanced Multifunctional Coatings (AMF) — Multifunctional Coatings Deposited by Pulsed Laser Deposition on Optimized Weathering and UV Exposure (Luca Magagnin - Politecnico di Milano)
- Overflow (OP)
- Overflow (OP)
- Process Monitoring, Control, and Automation (Invited) — Beyond Traditional High Power Impulse Magnetron Sputtering (Dan Boyanovsky - Trumpf Huttinger (Pvt) Ltd.)
- HiPIMS (HiP) — PP Assisted HiPIMS on a Single Target: Discharge Stability and Deposition Rate Enhancement (Ralf Bandorf - Fraunhofer IST)
- HiPIMS (HiP) — Pulsed Cathodic Arc Deposition of Ti-Al-N Coatings Using Pulsed Cathodic Arc Technology (Frank Burn - Pole Group)
- This Film Contributions for the Hydrogen Economy (THE) — PVD Coatings for the Hydrogen economy - Applications, Testing and Qualification Challenges (Richard Gabriel - PVT Plasma and Vacuum Technik GmbH) (pre-recorded video presentation)
- This Film Contributions for the Hydrogen Economy (THE) — Correlating Deposition Parameters with Structure and Sensing Performance in Pd Thin Film Hydrogen Sensors Prepared by Magnetron Sputtering (Brian Penney - Brooks Instrument)
- This Film Contributions for the Hydrogen Economy (THE) — Pd-Ag Nanowire Sensors for Hydrogen Control in Industrial Processes (Jesse Lockett - Nanowire Sensors Inc.)
- This Film Contributions for the Hydrogen Economy (THE) — Thin Film Coatings Enhance Durability and Performance of Lightweight Pressure Vessels for Hydrogen Storage (Jim Fan - University of Oxford)
- Overflow (OP)
- Overflow (OP)

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 Microsphères for Advanced Manufacturing (Rita Ghantous - Jan. Klarma-National Laboratory)

POSTER (P5): Influence of E-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)

POSTER (P7): Simulation Toolbox for Thin Film Coating: From Plasma and Gas Flux to Sputtered Particles, Wetting and Layer Thickness (Eric Vyblihardt - Fraunhofer IST)

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 (L) (2) Large Area Advanced Packaging and Integrated Photonics TWG
Hyatt Regency: Seaview Ballroom A

(1) High Power Impulse Magnetron Sputtering (HiPIMS) TWG (2) (3) Protective, Tribological, and Decorative Coatings TWG (4) This Film Contributions for the Hydrogen Economy TWG
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 (2) Emerging and Transitional Technologies and Applications TWG
Long Beach Convention Center Promenade: 102 B

(1) Optical Coatings TWG (2) (3) Photonically Induced Transformations of Thin Films and Surfaces TWG
Long Beach Convention Center Promenade: 102 B

(1) Electron Beam Processes TWG (2) (3) Coatings for Energy Conversion and Related Processes TWG
Hyatt Regency: Seaview Ballroom B

(1) Advanced Multifunctional Coatings TWG (2) (3) Advances in Thin Film Sensor Technologies TWG
Hyatt Regency: Seaview Ballroom A

(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) (3) 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

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 Marsico-Cox - Sencus Ltd)
- Exhibitor Innovator Showcase (EIS) — Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Demanding Applications (Jonas Wiberg - TRUMPF Huettinger Sp. z o.o.)
- Process Monitoring, Control, and Automation (Invited) — Transforming Process Control with Machine Learning (Pedro Reyes Santiago - VAT Vakuumventile AG)
- Emerging and Transitional Technologies (ETT) — Metallized Polymer Film Capacitors for Electrical Energy Storage (Ken Nelson - Kurt J. Lesker Company)
- Emerging and Transitional Technologies (ETT) — Industrial Scale-Up of Reactive Magnetron Sputtering of Metallic Oxyfluorides Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Tilmann Hannemann Rodrigues - Telemikon)
- Process Monitoring, Control, and Automation (PC) — Real-Time Contaminant Particle Monitoring During Thin Film Deposition Processes and Production Scale (Sylvain LeCuziat - SEM)
- Process Monitoring, Control, and Automation (PC) — Process Monitoring, Control, and Automation Solutions for Advanced Sputtering Applications (Pedro Reyes Santiago - VAT Vakuumventile AG)
- Process Monitoring, Control, and Automation (PC) — Industrial Scale-Up of Reactive Magnetron Sputtering of Metallic Oxyfluorides Coatings Using Optical Emission Spectroscopy Closed-Loop Control (Tilmann Hannemann Rodrigues - Telemikon)
- Optical (OP) — Active Nanostructured Optical Coatings for Energy, Exposure and Sensing (Ludvik Martinu - Polytechnique Montreal)
- Optical (OP) — Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Nickel Oxide Thin Films Controlled by Electrochromic Thin Films Even UV to be Infrared (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) — Exploring HiPIMS Applications for Semiconductor Manufacturing Enabling Heterogeneous Microelectronics and Advanced Packaging Technologies (Jonas Wiberg - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — A Scalable HiPIMS Process for Low-Stress Copper Layers in High-Aspect-Ratio Vias (Yifan Shen - TRUMPF Huettinger GmbH + Co. KG)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Open Source Roll-to-Roll Electron Beam Beam Process Modeling Using FEL (Ken Nitiss - Sachgeld - Scientific Sensor Analysis Group)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling Heterogeneous Microelectronics and Advanced Packaging Technologies (Jonas Wiberg - TRUMPF Huettinger Sp. z o.o.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Spatial Thin Film Uniform Deposition for Scalable Photonics Integrated Circuits (Tshaya "Pete" Supanna - Shincron Co. Ltd.)
- Large Area Advanced Packaging and Integrated Photonics (LAP) — Optical Engineer and Thin Film Nanophotonics (Mohamed Elbakouch - University of Arizona) (pre-recorded video presentation)

20 minute refreshment break

- Exhibitor Innovator Showcase (EIS) — Inorganics and Metallophenes Sputtering Targets for Semiconductor and Flat Panel Display Manufacturing (Christian Leise - Plansee SE)
- Exhibitor Innovator Showcase (EIS) — A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLC/ARC Platform (Bruno Dzierzatowicz - Oerlikon Balzers Coating USA)
- Exhibitor Innovator Showcase (EIS) — X-ray Diffraction and X-ray Reflectivity for Thin Film Phase Identification - Big Capabilities in a Small Footprint (Lawrence Anderson - Chemtor)
- Exhibitor Innovator Showcase (EIS) — Next-Generation Vacuum Coating Equipment: Advancing Semiconductor Thin Film Deposition Through Robotic Integration (Zhimeng Luo - Guangdong Huizheng Vacuum Technology Co.,Ltd)
- Overflow (OP)
- Overflow (OP)
- Process Monitoring, Control, and Automation (Invited) — Beyond Set Gauges: Vision-Based Process Monitoring for Vacuum Sealing for Modern Coating Systems (Gaspar Christiansen - Sensol A/S)
- Process Monitoring, Control, and Automation (PC) — In-Vacuum Color Monitoring to Improve Process Reproducibility in Production Environments (Jan-Peter Schaub - PLASUS GmbH)
- Optical (OP) — Photoluminescent, Electroluminescent Corrosion Masks for Lagrangian Magnetoencephalomyelitis Coatings (Chuan-Jen Tsai - Feng Chia University)
- Optical (Invited) — Recent Innovations in Optical Coating Design Software (Michael Trubetskov - OTF Studio GmbH)
- Optical (OP) — Harnessing Nirlithophane Plasma Dynamics in Nirlithophane-Assisted HiPIMS for Dense and Low-Resistivity Optical Films (Rajesh Sonawan - Aerlaze Coating Technologies GmbH & Co. KG)
- Optical (OP) — Development of Reflective Optical Coatings Using a Semi-Automated Spectroscopic Phase Measurement System (Christopher Cook - Edmund Optics)

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

TFB: Protective, Reflective, and Decorative Coatings
Martin Engelo (Inoboard) / Anss Shallow (Avalone)
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 (Demicone)
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 Advanced Coatings in Aerospace and Process Technology for Wire and Wire (Jan Schurr - VON ARDENNE Group)
- Electron Beam Processes (EB) — Open Source Roll-to-Roll Electron Beam Beam Process Modeling Using FELes (Ken Nitiss - Sachgeld - Scientific Sensor Analysis Group)
- Atomic Layer Processing (Invited) — Directional Atomic Layer Etching of Lithium Niobate Using Plasma Chemistry (Paulo Mendes - Cabinet)
- Atomic Layer Processing (AL) — Cleaning Cycle Optimization for Atomic Layer Deposition Using PVTD's Chemical Stability Over PFR-To-Ald, PTO, and CVD (Marco Dalaba - Fabscaper)
- Atomic Layer Processing (AL) — Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects (Sara Sorin - Forge Nano)
- Optical (OP) — Linear Ion Beam Assisted Deposition Sputtering (David Ebersman - HIPIMS, Inc.)
- Optical (OP) — Revolutionizing Optical Coatings with Ultra-Higher Deposition Rates and Plasma Stability with Ion Beam Sputtering (Yitzi Shen - TRUMPF Huettinger GmbH + Co. KG)
- Optical (Invited) — State of the Art of Ion Beam Sputtering Improvements for the Manufacturing of Ultra-Low Loss Optical Coatings (Laurent Pinard - Laboratoire des Materiaux Avancés - CNRS)
- Overflow (OP)
- Overflow (OP)
- Protective, Tribological, and Decorative Coatings (PT) — Arc and Sputter Deposited Cr2O3 Coatings for Plastic Injection Molds (Alexander Kyle - Kennametal)
- Protective, Tribological, and Decorative Coatings (PT) — Sputtering (Jun Hyun Han - Korea Institute of Materials Science (KIMS))

10 minute passing break

- Optical (OP) — Optimization of CERN Method enabled 30nm Etching for Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors (Sumit Gonsalve - University of Oklahoma)
- Photonically-Induced Transformations of Thin Films (Invited) — Photo-Based Programming of Spatially Varying Nanoscale Properties of Thin Films and Nanostructures (Christopher Muratore - University of Pittsburgh)
- Photonically-Induced Transformations of Thin Films (Invited) — Controlling Photodamaging in Rare-Earth Doped Nanocrystals Thin Films for Photonic Applications (Martino Calzolari - Institute of Solid State Physics, University of Latvia)
- Overflow (OP)
- Sensors (SE) — Versatile Hydrogen Sensor Platform Fabricated Using Roll-to-Roll PLD and Laser Patterned Pressure Sensors (Chris Muratore - University of Dayton)
- Sensors (SE) — Challenges and Opportunities of Copper Nitride Nanostructures for Gas Sensing Applications (Ahmad Umar - Najran University) SPONSORED STUDENT PRESENTATION
- Sensors (SE) — Epitaxial Growth from a Thermal Experiment: Highly Active Arsenic Sensor Based on Ga2O3 Nanowires (Ralf Pasquay - University of Toledo) SPONSORED STUDENT PRESENTATION
- Optical (OP) — High-Consistency Vacuum Coating Equipment and Process Platform for Large Area Optical Components (Zhihong Li - Guangdong Huizheng Vacuum Technology Co., Ltd.)
- Optical (OP) — Passive and Active Structural Color Control of the Metallic-Dielectric Thin Film Structures (Michal Nowicki - Warsaw University of Technology) SPONSORED STUDENT PRESENTATION
- Optical (OP) — Thickness Distribution Modeling and Mask Optimization for Problem Sub-Tooling Sputtering Processes (Tsu-Hsiu Chan - Ewb Young Vacuum Equipment Co., Ltd.)
- Optical (OP) — Optical Measurements of Large-Aperture Diamond Coatings on Silicon Wafers for Thermal Management Information and Deflection Control (Volker Sittinger - Fraunhofer IST)
- Protective, Tribological, and Decorative Coatings (PT) — Tribological Properties of Tungsten Disulfide Coatings for Wave Tools (Christopher Sellers - Cerametec Inc)
- Protective, Tribological, and Decorative Coatings (PT) — A Novel Method to Low Friction Cathodic Arc Sequential Coatings (Dermot Monaghan - Gencoa Ltd)
- Protective, Tribological, and Decorative Coatings (PT) — Influence of Replicon Doping on the Microstructure and Wear of TiAlSiN Coatings at High Temperatures (Tomas Kubart - Uppsala University, Department of Materials Chemistry)
- Protective, Tribological, and Decorative Coatings (PT) — TiN/AlxCrzN Multilayer Coatings Deposited by HiPIMS and Cathodic Arc Evaporation (Lars Hultman - Linköping University, Sweden) (Stefan Calissendorff - Kanthal AB)

40 minute Lunch break

- Photonically-Induced Transformations of Thin Films (Invited) — Additive Nanomanufacturing and Printing Electronics and Functional Devices (Mohamed 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 (Invited) — Nano-Pressure Induced Photochemical Transformations Enable Hazardous Vapor Sensing Arrays (Nick Wilkinson - University of England) SPONSORED STUDENT PRESENTATION
- Sensors (SE) — Broadband BiMM Absorption in Thin Film Metasurface Photodetectors Using Deep Neural Networks (Md Kaushik Alam - University of Oklahoma) SPONSORED STUDENT PRESENTATION
- Sensors (SE) — Design and Characterization of Low-Cost, High-S