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)
Arutun 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) / Anette Wickenlin (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

LBCC Promenade 104A (Program track daily room assignment) | LBCC Promenade 104B (Program track daily room assignment) | LBCC Promenade 105A (Program track daily room assignment) | LBCC Promenade 105B (Program track daily room assignment) | LBCC Promenade 101B (Program track daily room assignment)

8:40 AM – 9:50 AM: 10 minute passing break

9:50 AM: **Compact Business Meeting (30 minutes)** (LBCC Promenade 104B)

10:00 AM: 10 minute passing break

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

10:20 AM: **Keynote (LBCC Promenade 104B)**
Sustainability and Life Cycle Thinking as Innovation Drivers for Surface Engineering
[Christoph Herrmann - Fraunhofer IST]

10:30 AM – 11:40 AM: 20 minute refreshment break

11:50 AM: **Large Area Colloquium**
"Driving new life to old coatings: Modernization of coaters for new demands"

- Characterization, Testing, and Failure Analysis (C7) — In Situ and Ex Situ Characterization of the Stress Evolution in Functional Thin Films [Lukáš Martinu (Polytechnique Montreal)]
- Characterization, Testing, and Failure Analysis (MF) — Tribological Performance: A Comparative Electrochemical Study of Low-Temp Plasma Carburizing and Low-Temp Plasma Nitriding of 316L Stainless Steel [Carolina Arias Cuenca - Tu Darmstadt, MPA-IWW] — SPONSORED STUDENT PRESENTATION
- Characterization, Testing, and Failure Analysis (Invited) — Surface Coating, Treatment, and Analysis of Materials for Medical Devices [Jeremy P. Gilbert (Northeastern University)]
- Characterization, Testing, and Failure Analysis (C7) — Influence of Load, Sliding Speed and Dimple Fractional Area Density on Tribological Performance of Laser Textured Ti-6Al-4V Against Uncoated and Polished Al-Mn-Mg Alloy [Ashish Kumar Sharma - Indian Institute of Technology (ISM)] — SPONSORED STUDENT PRESENTATION
- Plasma Processing and Diagnostics (PP) — Tuning the Properties of PTCG Films Prepared by Ion Beam Assisted Deposition [Ivan Fernandez Romero - Universidad Carlos III de Madrid] — SPONSORED STUDENT PRESENTATION
- Plasma Processing and Diagnostics (PP) — Time-Resolved OES Diagnostics of Gas Flow Sputtering Using Ar/He Mixtures [Lui Chi Chan - Hong Kong Polytechnic University] — SPONSORED STUDENT PRESENTATION
- HIPIMS (MF) — Real-Time Optimization of HIPIMS Processes Using Pulse-Resolved Spectroscopy and Electrical Plasma Process Control [Thomas Schalkx - PLASUS GmbH]
- HIPIMS (Invited) — Towards Reactive Gas Pulsing in Reactive Sputtering of Metal Nitrides – The Role of Metal Ions in Plasma-Activated Reactive Environments [Tetsuhide Shimizu - Tokyo Metropolitan University]
- Advanced Multifunctional Coatings: (Invited) — Advanced Active and Inactive Cooling Systems to Improve Life and Safety of Lithium-Ion Batteries for Automotive and Grid Applications [Ralph Antes - Argemis National Laboratory]
- Advanced Multifunctional Coatings (AMF) — Multilayered Diamond-Like Carbon Films Grown by a Beam Plasma Source [Yaishita Amelia - Egertec Uniscoating]
- Advanced Multifunctional Coatings (AMF) — Spectral Analysis of Optical Properties of Thin Films for Rational Design for On-Chip Energy Storage [Jose Magana - Politecnico di Milano]
- Advanced Multifunctional Coatings (AMF) — Advanced Corrosion and Wear Resistance of DLC and TiCN Films as Optimized Anodizing and DLC Deposition [Jose Magana - Politecnico di Milano]

12:40 PM: **40 minute passing / lunch break**

1:30 PM: **Don Mattox Tutorial (LBCC Promenade 104B)**
From Poisoned Targets to Healthy Models: The Quest for Parameters
[Diederik Depla - Ghent University]

2:00 PM: 10 minute passing break

2:10 PM:
- Large Area (Invited) — Flexo Production of Large Area Barrier Coatings for Display Cover Glass [Brian Holsclaw - Corning Inc.]
- Characterization, Testing, and Failure Analysis (C7) — Infrared Spectroscopy of Mn Doped ZnO Thin Films [Ho-Jun Son - Korea Research Institute of Standards and Science]
- Large Area (C7) — Beam Plasma Source Enhanced Deposition of high- and low-index Oxide Thin Films [Jaymes Ian - Michigan State University]
- Large Area (C7) — Enabling Large Area Advanced Packaging Through Optical In-Situ Metrology in Spatter Deposition [Vidja Hakarland - Jenoptik AG]
- 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 Titanium Nitride Coatings for Implanted Biomedical Electromedical Devices [Hossein Liravian - Hanon Innovation]
- Coatings and Processes for Biomedical Applications (BP) — Antibacterial Properties of Ti-Cu Thin Films Deposited by Antibacterial Functionality for Neurostimulation Implantable Devices [Kirill Pavelkin - Drexel University]
- Coatings and Processes for Biomedical Applications (Invited) — From Telecoom to Biotech - Closing the Loop with Thin Films [Matthias Wagner]
- SVC Strategic Technologies and Markets Colloquium "The challenge of transitioning to sustainable surface engineering practices"

3:10 PM: 20 minute refreshment break

3:40 PM:
- Large Area (LT) — Scalable Manufacturing of Signal-Penetrating Low-E Glass via Plasma Assisted Magnetron Sputtering [Xiaoxiao Ding - Lutron Electronics Inc.]
- Large Area (LT) — Going Large - Predictive and Optimization of Layer Thickness Distributions in Large Area Magnetron Sputtering [Eric Vallabregh - Fraunhofer IST]
- Large Area (LT) — High-Throughput Coating Uniformity Using a Carousel Type Sputtering System [Tetsuya Sugawara - Shincron Co., Ltd.]
- Characterization, Testing, and Failure Analysis (Invited) — Tribological Characterization of Thin Films [Lance Hoffman - J.A. Woollam Co.]
- Quantum Computing (Invited) — Complete Interchange Control of Multi-Mode Superconducting Circuits [Eli Levenson-Falk - University of Southern California]
- HIPIMS Colloquium "The Innovation Spiral of HIPIMS Towards Industrialization"

4:50 PM: 30 minute break

5:20 PM: **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 (UMRP)
Long Beach Convention Center Promenade: 102 B

SMF: Materials for PVD processes
David Sanchez / Christos Pernagidis (Avalvoe)
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

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

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

10:00 PM

Tuesday (April 28, 2026)

Technical Forum Breakfasts

TFB: Leak Detection - Issues and Practices
Mike Ridenour Sapskoi USA) / Jean-Pierre Delsa (BDL Redwood)
Long Beach Convention Center Promenade: 102 A

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

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

TFB: Process Monitoring & Control
Martynas Audronis (Nova Fotonika, Ltd.) / Edmund Schingel (VAT Group)
Hyatt Regency: SeaView Ballroom A

TFB: Energy Conversion and Storage
Volker Sittinger (Fraunhofer-IST) / Stefan Seager (Fraunhofer FEP) / Ro Shinohara (MLD)
Hyatt Regency: SeaView Ballroom B

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

7:30 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)

8:40 AM – 9:50 AM: 10 minute passing break

9:50 AM: **Awards Ceremony (LBCC Promenade 104B)**
8:40-9:20 AM

10:00 AM: 10 minute passing break

10:10 AM:
- Advanced Multifunctional Coatings (Invited) — Powder Atomic Layer Deposition for Commercial Scale Ald [Christopher Gump - Forge Nano]
- Advanced Multifunctional Coatings (AMF) — Comparative Cathodic Arc Evaporation Testing of TiN and CrN Coatings: Insights From Electrochemical and Transmitted Methods [Michael Wolf - Ni Wood]
- Advanced Multifunctional Coatings (AMF) — Stabilizing Lithium Metal Anodes with Vacuum-Deposited PET-Cu Composite Current Collectors. [Kuaiheng Li - Northeastern University China]
- Organic and Perovskite Electronics (OEPE) — Cells through Selective Vacuum Deposition Processing [Jaime Contreras-Bernal - University of Cádiz] — SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OEPE) — high voltage All-Inorganic CsBr Doped Lead-Free Double Perovskite Cs2AgInCl2 Thin Films [Nidhi Krishnan - Jain College Jayanagar] — SPONSORED STUDENT PRESENTATION
- Organic and Perovskite Electronics (OEP) — Thermal Co-Evaporation of Thin Film Photovoltaics by the Choice of Tool [Jin Yao University of Oxford]
- Organic and Perovskite Electronics (OEP) — Optical In-Situ Monitoring of Perovskite Thin Film Growth: A Review of Reflectance and Photoluminescence Based Process Insights [Vidja Hakarland - JenPhotEk]
- Process Monitoring, Control, and Automation (PC) — From Logics to Industry: Deploying Vision Systems with Edge Control Hardware [Marwa Kilani - SUMAGUN GmbH]
- Process Monitoring, Control, and Automation (Invited) — Transforming Production Quality Control through Advanced Chamber Process Control [Pedro Reyes Santiago - VAT Vakuumventile AG]
- Process Monitoring, Control, and Automation (PC) — Intelligent Process Control Using Machine Learning and Vision Systems for Defect Detection [Ralf Bandorf - Fraunhofer IST]
- HIPIMS (HP) — Industrial HiPIMS - Process Challenges, Trends and Innovations [Michal Sánchez Nodagar - Ionautics]
- HIPIMS (HP) — HI-MFs/S MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via [Tseng-Hao Chen - Tong Chia University]
- HIPIMS (HP) — HiPUL54™ + Positive Pulse™ for Direct Carbide Coatings on Inner Surface of Small Diameter Long Tubing [Sven Bilodeau - Starfire Industries]
- Thin Film Contributions for the Hydrogen Economy (HH) — Replacing Ti Plates by Ti-Coated Steel Substrates for PEM Electrolyzer [Ralf Bandorf - Fraunhofer IST]
- Thin Film Contributions for the Hydrogen Economy (HH) — Hydrogen Gas Sensors: Operational Principles and Challenges in Catalytic Thin Film Design [Nadim Kapsan - Schaeffler Technologies]
- Thin Film Contributions for the Hydrogen Economy (HH) — PVD Coatings for the Hydrogen economy - Applications, Testing and Industrial Scale Production [Robert Zabrel - PVT Plasma and Vacuum Technik GmbH]
- Thin Film Contributions for the Hydrogen Economy (HH) — Corrosion Resistance Characterization of Metallic Coatings for Electrolyzer Components with Structure and Composition Gradients Using Electrochemical Impedance Spectroscopy [Jaime Contreras-Bernal - Instituto Cerámico]

11:40 AM – 12:40 PM: 20 minute refreshment break

12:50 PM:
- Advanced Multifunctional Coatings (Invited) — Real Outgas, Self-Dec Footprints, Full Control in Sealible Reactive Sputtering and Reset Throughput: TruPlasma DC 4000/4000 Ed with PSU and Advanced Arc Control for Faster Ramping and Lower Defect Rates [Rudy Kuzyniak - TRUMPF Huettinger]
- Exhibitor Innovator Showcase (EIS) — Integrated Mechanical and Structural Characterization Solutions for Vacuum Coatings [Parth Kotak - Anton Paar USA Inc.]
- Exhibitor Innovator Showcase (EIS) — Custom Vacuum Coating Systems, Vacuum Cooler Refurbishment and Contract R&D at UP Plasma [Frank Papa - UP Plasma LLC]
- Exhibitor Innovator Showcase (EIS) — Ultra-Low Particle Contamination Vacuum Technology [Jens Marcks Olsen - Sencus ApS]
- Exhibitor Innovator Showcase (EIS) — Ultra-Stable Vacuum Measurement for Thin Film Processes [Tim Dudde - Advanced Energy]
- Exhibitor Innovator Showcase (EIS) — Tailor-Made Vacuum Solutions for Research and Industry [Ralf Dohl - VAT Vakuumventile AG]
- Exhibitor Innovator Showcase (EIS) — Industrial Mechanical Vacuum Pumps for Coating Applications [Jan Bitzer - Leybold]
- Exhibitor Innovator Showcase (EIS) — Tungsten and Molybdenum Sputtering Targets for Semiconductor and Thin Film Applications [Jonathan Cole - Plansee SE]
- Exhibitor Innovator Showcase (EIS) — A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLAMOS System [Bruce Dalamarb - Oerlikon Balzers Coating USA]
- Exhibitor Innovator Showcase (EIS) — Ultra-Low Particle Contamination Vacuum Technology [Jens Marcks Olsen - Sencus ApS]
- Exhibitor Innovator Showcase (EIS) — Ultra-Stable Vacuum Measurement for Thin Film Processes [Tim Dudde - Advanced Energy]
- Exhibitor Innovator Showcase (EIS) — Tailor-Made Vacuum Solutions for Research and Industry [Ralf Dohl - VAT Vakuumventile AG]
- Exhibitor Innovator Showcase (EIS) — Industrial Mechanical Vacuum Pumps for Coating Applications [Jan Bitzer - Leybold]
- Optical (OP) — Phytofluorout: Fluorescent-Tuned Corrosion Masks for Luminescence Based Microbial Contamination Detection [Chun-Jen Tang - Feng Chia University]
- Optical (Invited) — Recent Innovations in Advanced Packaging Design Software [Michael Tsubakino - UTF Blade Design]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Ultra-Low Loss Photonic Interconnects for Co-Packaged Amorphous Silicon for Accelerated Wavelength Formation for ThroughWave Via (TWV) Technology [Jenna Wilkinson Dmascus - TRUMPF Huettinger Sp. z o.o.]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Ultra-Low Loss Photonic Interconnects for Co-Packaged Amorphous Silicon for Accelerated Wavelength Formation for ThroughWave Via (TWV) Technology [Jenna Wilkinson Dmascus - TRUMPF Huettinger Sp. z o.o.]
- Large Area Advanced Packaging and Integrated Photonics (LP) — A Scalable HiPIMS RF Bias Strategy for Reliable Cu Seed Layers in Advanced Packaging [Chia-Jen Chang - TRUMPF Huettinger GmbH + Co. KG]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Spatterout Thin-Film Lithium Niobate for Scalable Photonic Integration [Tohoku Sugawara - Shincron Co. Ltd.]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Optical Engine and Thin-Film Nanophotonics [Mohamed Elhabbash - University of Arizona]

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

2:30 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 Li6 (Yuri Elokhin - Nanocoating Plasma Systems)

POSTER (P3): Front Contact (TCO/Ag/Ti) 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 Microarrayfoils for Advanced Manufacturing (Dire Shaibnan - Los Alamos National Laboratory)

4:40 PM: **Welcome Reception (Exhibit Hall)**
5:00 - 6:00 PM

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

Wednesday (April 29, 2026)

TAC Breakfast Meetings

(1) Large Area Advanced Packaging and Integrated Photonics TAC
Long Beach Convention Center Promenade: 102 A

(2) High Power Impulse Magnetron Sputtering (HIPIMS) TAC
Long Beach Convention Center Promenade: 102 B

(3) Protective, Tribological, and Decorative Coatings TAC
Long Beach Convention Center Promenade: 102 C

(4) This Film Contributions for the Hydrogen Economy TAC
Long Beach Convention Center Promenade: 102 D

(5) Plasma Processing and Diagnostics TAC
Hyatt Regency: SeaView Ballroom A

(6) Atomic Layer Processing TAC
Hyatt Regency: SeaView Ballroom B

(7) WebTech Roll-to-Roll Technologies and Innovation TAC
Hyatt Regency: SeaView Ballroom C

(8) Emerging and Translational Technologies TAC
Hyatt Regency: Beacon A

(9) Optical Coatings TAC
Hyatt Regency: Beacon B

(10) Potentially Induced Transmissions of Thin Films and Surfaces TAC
Hyatt Regency: Beacon C

(11) Electron Beam Processes TAC
Hyatt Regency: Beacon D

(12) Coatings for Energy Conversion and Related Processes TAC
Hyatt Regency: Beacon E

(13) Advanced Multifunctional Coatings TAC
Hyatt Regency: Beacon F

(14) Digital Transformation through AI, Machine Learning, Simulation and Data Science TAC
Hyatt Regency: Beacon G

(15) Process Monitoring Control and Automation TAC
Hyatt Regency: Beacon H

(16) Characterization, Testing, and Failure Analysis of Thin Films TAC
Hyatt Regency: Beacon J

(17) Organic and Perovskite Electronics TAC
Hyatt Regency: Beacon K

(18) Quantum Computing TAC
Hyatt Regency: Beacon N

7:30 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)

8:40 AM – 9:50 AM: 10 minute passing break

9:50 AM: **Keynote (LBCC Promenade 104B)**
Fano-Resonant Optical Coatings and Applications
[Charlotte Guo - University of Rochester]

10:00 AM: 10 minute passing break

10:10 AM:
- Exhibitor Innovator Showcase (EIS) — The Rise of Ultra-Low Particle Vacuum Technology [Jens Marcks Olsen - Sencus ApS]
- Exhibitor Innovator Showcase (EIS) — Industrial-Ready Vacuum Measurement and Isolation from Concept to Production Tool [Anna Wittenco Dmascus - TRUMPF Huettinger Sp. z o.o.]
- Exhibitor Innovator Showcase (EIS) — Next-Generation Vacuum Technology for Demanding Vacuum Systems [Jonathan Cole - Plansee SE]
- Emerging and Translational Technologies (ET) — Hybrid Cleaning of Contaminated Surfaces by High Peak Coating Short Times - HPCWC Kickoff
- Emerging and Translational Technologies (ET) — Kinetics of Property - Structure Evolution from Solution Form Analysis of Spatterout Thin Films and Engineered Coatings [Vidja Hakarland - JenPhotEk AG]
- Emerging and Translational Technologies (ET) — Engineering Solutions for High Speed Roll-to-Roll Impacts Coating in Scalable Manufacturing of Functional and Energy-Related Films [Zhiheng Li - Guangdong Huizhong Vacuum Technology Co., Ltd.]
- Process Monitoring, Control, and Automation (PC) — The Rise of Ultra-Low Particle Vacuum Technology [Jens Marcks Olsen - Sencus ApS]
- Process Monitoring, Control, and Automation (PC) — Industrial-Ready Vacuum Measurement and Isolation from Concept to Production Tool [Anna Wittenco Dmascus - TRUMPF Huettinger Sp. z o.o.]
- Process Monitoring, Control, and Automation (PC) — Next-Generation Vacuum Technology for Demanding Vacuum Systems [Jonathan Cole - Plansee SE]
- Process Monitoring, Control, and Automation (PC) — Industrial Scale Coating Defect Detection Using Optical Emission Spectroscopy Closed-Loop Control [Johann Hernandez Rodriguez - Solaxess]
- HIPIMS (HP) — Industrial HiPIMS - Process Challenges, Trends and Innovations [Michal Sánchez Nodagar - Ionautics]
- HIPIMS (HP) — HI-MFs/S MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via [Tseng-Hao Chen - Tong Chia University]
- HIPIMS (HP) — HiPUL54™ + Positive Pulse™ for Direct Carbide Coatings on Inner Surface of Small Diameter Long Tubing [Sven Bilodeau - Starfire Industries]
- Optical (OP) — Active Nanostructured Spectrally Selective Coatings for Energy, Exposure and Sensor Applications [Ludvik Martinu - Polytechnique Montreal]
- Optical (OP) — Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Niobium Doped Zinc Oxide and Niobium Doped-Indi Thin Films from UV to far Infrared [Liang Sun - Ad Surya Research Laboratory]
- Optical (OP) — Ultra-Low Coating Thickness Measurements Using Electrochromic Optics [Alexandre Ribeiro - Université de Montréal] — SPONSORED STUDENT PRESENTATION
- Large Area Advanced Packaging and Integrated Photonics (LP) — Manufacturing Enabling Hybrid-Scale Metallization and Via Formation for ThroughWave Via (TWV) Technology [Anna Wittenco Dmascus - TRUMPF Huettinger Sp. z o.o.]

11:40 AM – 12:40 PM: 20 minute refreshment break

12:50 PM:
- Exhibitor Innovator Showcase (EIS) — Tungsten and Molybdenum Sputtering Targets for Semiconductor and Thin Film Applications [Jonathan Cole - Plansee SE]
- Exhibitor Innovator Showcase (EIS) — A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLAMOS System [Bruce Dalamarb - Oerlikon Balzers Coating USA]
- Process Monitoring, Control, and Automation (PC) — Intelligent Process Control Using Machine Learning and Vision Systems for Defect Detection [Ralf Bandorf - Fraunhofer IST]
- Process Monitoring, Control, and Automation (PC) — Transforming Production Quality Control through Advanced Chamber Process Control [Pedro Reyes Santiago - VAT Vakuumventile AG]
- Optical (OP) — PhytoFluorout: Fluorescent-Tuned Corrosion Masks for Luminescence Based Microbial Contamination Detection [Chun-Jen Tang - Feng Chia University]
- Optical (Invited) — Recent Innovations in Advanced Packaging Design Software [Michael Tsubakino - UTF Blade Design]
- Large Area Advanced Packaging and Integrated Photonics (LP) — A Scalable HiPIMS RF Bias Strategy for Reliable Cu Seed Layers in Advanced Packaging [Chia-Jen Chang - TRUMPF Huettinger GmbH + Co. KG]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Spatterout Thin-Film Lithium Niobate for Scalable Photonic Integration [Tohoku Sugawara - Shincron Co. Ltd.]
- Large Area Advanced Packaging and Integrated Photonics (LP) — Optical Engine and Thin-Film Nanophotonics [Mohamed Elhabbash - University of Arizona]

1:30 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**

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

5:30 PM: **Free Time**
4:00 - 5:30 PM

6:30 PM: **TAC Program Meeting (Hyatt Regency Shoreline A/B)**
5:30 - 7:30 PM

Thursday (April 30, 2026)

Technical Forum Breakfasts

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

TFB: Protective, Reflective, and Decorative Coatings
Martin Engelo (Iconbond) / Anas Ghalane (Akulaxe)
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 Height (Semicore)
Hyatt Regency: SeaView Ballroom B

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

7:30 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)

8:40 AM – 9:50 AM: 10 minute passing break

9:50 AM: **Keynote (LBCC Promenade 104B)**
Plasma Technologies for Precision and Large-Scale Surface Engineering
[Elisabeth von Hauff - Fraunhofer IEP]

10:00 AM: 10 minute passing break

10:10 AM:
- Electron Beam Processes (EB) — High Rate Plasma Activated Electron Beam Evaporation for Electron Beam Process Monitoring Using PEcVac [Kaim Mirza - Jenoptik]; Jonas Kurzrock [Kaim Mirza - Jenoptik]
- Electron Beam Processes (Invited) — Vacuum Barrier Coatings for Mirror Protection: Developments in Equipment and Process Technology for SEs and AEs [Mariya Pancha - VON ARDENNE GmbH]
- Digital Alternative (DT) — Open-Source Platform Accelerates Electron Beam Process Monitoring Using PEcVac [Kaim Mirza - Jenoptik]; Jonas Kurzrock [Kaim Mirza - Jenoptik]
- Digital Alternative (DT) — Directional Atomic Layer Deposition Reduces Using Reactive Plasma Chemistry [Fuzhi Shinoda - CoNeuS]
- Digital Alternative (DT) — Developing Coating System Performance: Demonstrating PCTFE's Chemical Stability Over PPE in Acid, PVD, and CVD [Mayuri Dalkia - Advanced]
- Digital Alternative (DT) — Reducing Downtime and Waste in Vacuum Coating Through AI Prediction [Jon Bentley - Sencus ltd]
- Digital Alternative (DT) — Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects [Sara Norris - Forge Nano]
- Machine-Learning-Enabled High-Throughput Optimization and Physical Property Prediction for All-Vacuum-Evaporated Organic Semiconductor Films and Devices [Shimeng Li - University of Oxford]
- Atomic Layer Processing (Invited) — Ferroelectric Hafnium Zirconium Oxide Films: Developments in Equipment and Process Technology for SEs and AEs [Mariya Pancha - VON ARDENNE GmbH]
- Digital Alternative (DT) — Faulty Process Rate Detection and Optimization using Machine Learning [Holger Gerdes - Fraunhofer IST]
- Digital Alternative (DT) — Predicting Film Homogeneity in Large-Area Rotary Sputtering: GPU-Accelerated Multi-Scale Simulation Coupling Gas-Phase Transport and Substrate Rotation [Patrick Morse - Arizona Thin Film Research LLC]
- Digital Alternative (DT) — Particle-Based Simulation of Reactive Magnetron Sputtering to an Industrial Roll-to-Roll Coater: Coupling Gas Phase Source PVD-MCS/DSMC Solver Pilot [Paul Nicenboim - Inditaplex - numerical plasma dynamics GmbH]
- Digital Alternative (DT) — Navigating Digital Transformation in Industrial Vacuum Environment: Data, Detection, and the Strategic Road Ahead [Alexander Ebner - Frank Fallon GmbH]
- Optical (OP) — Optical Coatings Vacuum Cooling Equipment and Process Platform: Cost Effective Cooling Solutions [Chihong Li - Guangdong Huizhong Vacuum Technology Co., Ltd.]
- Optical (OP) — Passive and Active Structural Color Control of the Metallic-Dielectric Nanocube Metasurface [Michal Nawaz - Military University of Technology] — SPONSORED STUDENT PRESENTATION
- Optical (OP) — Thickness Distribution Modeling and Mask Optimization for Freeform Substrates in Sputtering Process [Tsu-Hao Chan - Dah Tseng Vacuum Equipment Co., Ltd.]
- Optical (OP) — Optical Measurements of Large-Aerial Diamond Coatings on Silicon Wafers for Refractive Index Determination and Uniformity Control [Vladislav Zhurenkov - Fraunhofer IOTS]
- Protective, Tribological, and Decorative Coatings (Invited) — Optimizing Electron Transport in Textured Flexible Rings [Todd Hayes - Pepsi Company]
- Protective, Tribological, and Decorative Coatings (Invited) — Advanced Multilayer Coatings for Wear Protection of Injection Molds [Christian Pernegger - Austrian Coating Technologies GmbH & Co KG]
- Protective, Tribological, and Decorative Coatings (Invited) — Tribological Properties of Tungsten-Disulfide Thin Films Deposited by Magnetron Sputtering [Juan Manuel Sánchez Cardenas - Centro de Ingeniería y Desarrollo Industrial (CIDESI)]
- Protective, Tribological, and Decorative Coatings (TT) — Wear Resistance of Diamond-Like Carbon Coatings Under Large Contact Pressure and Lubricated Sliding [Ahmet Emre Kara - Istanbul Technical University]
- Protective, Tribological, and Decorative Coatings (Invited) — Mechanical Properties and Tribological Performance of Large Area Diamond Coatings [Ahmet Emre Kara - Istanbul Technical University]
- Protective, Tribological, and Decorative Coatings (Invited) — Tribological Performance of Diamond-Like Carbon Coatings Under Large Contact Pressure and Lubricated Sliding [Ahmet Emre Kara - Istanbul Technical University]
- Protective, Tribological, and Decorative Coatings (TT) — Tribological Properties of Tungsten-Disulfide Thin Films Deposited by Magnetron Sputtering [Juan Manuel Sánchez Cardenas - Centro de Ingeniería y Desarrollo Industrial (CIDESI)]

11:40 AM – 12:40 PM: 20 minute refreshment break

12:50 PM: **40 minute Lunch break**

1:30 PM:
- Overflow (OP)
- Overflow (OP)
- Overflow (OP)
- Optical (OP) — High-Consistency Vacuum Coating Equipment and Process Platform: Cost Effective Cooling Solutions [Chihong Li - Guangdong Huizhong Vacuum Technology Co., Ltd.]
- Optical (OP) — Passive and Active Structural Color Control of the Metallic-Dielectric Nanocube Metasurface [Michal Nawaz - Military University of Technology] — SPONSORED STUDENT PRESENTATION
- Optical (OP) — Thickness Distribution Modeling and Mask Optimization for Freeform Substrates in Sputtering Process [Tsu-Hao Chan - Dah Tseng Vacuum Equipment Co., Ltd.]
- Optical (OP) — Optical Measurements of Large-Aerial Diamond Coatings on Silicon Wafers for Refractive Index Determination and Uniformity Control [Vladislav Zhurenkov - Fraunhofer IOTS]
- Protective, Tribological, and Decorative Coatings Colloquium "Decorative PVD Coatings – Trends and Challenges"

2:10 PM:
- Overflow (OP)
- Overflow (OP)
- Overflow (OP)
- Photonically Induced Transformations of Thin Films (Invited) — Process Based Programming of Spatially Varying Nanoscale Properties by Laser Writing for Multifunctional Flexible Devices [Mustafa Badaoy - University of Pittsburgh]
- Sensors (SF) — Versatile Electronic Sensor Platform Meso-Produced Using Roll-to-Roll PVD and Laser Patterning Processes [Chris Mutsuko - University of Stephen]
- Sensors (SF) — Challenges and Opportunities in Flexible Nanosolutions [Amanda Carpenter - Polytechnique Montreal] — SPONSORED STUDENT PRESENTATION
- Optical (OP) — Optical Growth Scan a Spectral Sensor Chip - Highly Action Assets Based Single Crystal CaFe [Ulrich Heusler - University of Toledo] — SPONSORED STUDENT PRESENTATION
- Optical (OP) — Thickness Distribution Modeling and Mask Optimization for Freeform Substrates in Sputtering Process [Tsu-Hao Chan - Dah Tseng Vacuum Equipment Co., Ltd.]
- Optical Measurements of Large-Aerial Diamond Coatings on Silicon Wafers for Refractive Index Determination and Uniformity Control [Vladislav Zhurenkov - Fraunhofer IOTS]
- Protective, Tribological, and Decorative Coatings (TT) — HiPIMS Coatings for Wind Tools [Christoph Schiller - Cemecole AG]
- Protective, Tribological, and Decorative Coatings (TT) — A Novel Method for Low Defect Cathodic Arc Deposited Coatings [Vincent Monteiro - Sencus Ltd]
- Protective, Tribological, and Decorative Coatings (TT) — Influence of Nitrogen Doping on the Microstructure and Wear of TiAlSiN Coatings at High Temperatures [Michael Tsubakino - UTF Blade Design]
- Protective, Tribological, and Decorative Coatings (TT) — TiN-based PVD Multilayer Coatings Combined with Nano-ceramic Coatings to Improve Wear Resistance for Automotive Applications [Mahsa Chen - Pulsis - University of Nouvelle]

2:50 PM:
- Overflow (OP)
- Overflow (OP)
- Overflow (OP)
- Photonically Induced Transformations of Thin Films (Invited) — Additive Nanomanufacturing of Functional Devices Functional Devices [Mouaouia Mahjoub Sanhaji - Auburn University]
- Sensors (SF) — Design and Characterization of Inks/Solids Wt/CNN Type-B Tagnetics-Based Mid-Wave Infrared Photodetector [Ahmed Ali - Ecole de Technologie Supérieure] — SPONSORED STUDENT PRESENTATION
- Sensors (SF) — Self-Assembled Grain Metal and Nitride-Metal Nanocomposite Thin Film for Nanosecond-Scale and Future Sensing Applications [Zi-Chang - University of Iowa as Arlington]