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) / Jörg Neidhardt (Fraunhofer-FEP)
Hyatt Regency: SeaView Ballroom A

TFB: Durability Evaluation of Thin Film Coatings: Testing Methods and Practical Implications
Brent Boyce (Guardian) / Amelia Wickerlin (Glass Tribech)
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 – 9:30 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)

10 minute passing break

Compact Business Meeting (30 minutes)
(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
"Driving new life to old coatings: Modernization of coaters for new demands"

Characterization, Testing, and Failure Analysis (ICT)
In-Situ and Ex-Situ Characterization of the Stress Evolution in Functional Thin Films
[Lukáš Max Naumann - Charles University]

Characterization, Testing, and Failure Analysis (ICT)
Exploring Wave-Front DMP Technical Products
[Marcel Arvay - DMP Technical Products]

Characterization, Testing, and Failure Analysis (Invited)
Surface Coating, Treatment, and Analysis of Materials for Medical Devices
[Bernard J. Madhavan]

Characterization, Testing, and Failure Analysis (Invited)
Continuous PVD Roll-to-Roll Processed Material for Fuel Cells: Towards Future Production of Metallic Bipolar Plates and Interconnects for PEMEC Applications
[Kunal Sahlozai - Atotech]

Characterization, Testing, and Failure Analysis (ICT)
Advanced Electrical Characterization of Thin Film Transistors Properties in Nanomaterials and Oxide Technology
[Anton Paul Vish Leo]

Characterization, Testing, and Failure Analysis (ICT)
An Quality Analysis of Powder Metallurgical TiAl/TiN Target by Means of Pulsed Arc PVD Process
[Nancy Mesecke - PROTA Hudson University]

Plasma Processing and Diagnostics (PP)
Results Using a Specialized DMS-RGA and a Related Excess-Control System Demonstrated for the PR8-DRGA System
[Chris Mercer - Oak Ridge National Laboratory]

Plasma Processing and Diagnostics (PP)
Tuning the Properties of PTFE Films Prepared by Ion Beam Assisted Deposition (IBAD) Using Plasma Diagnostics
[Oleg Zabeida - Polytechnique Montréal]

SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (PP)
Time-Resolved OES Diagnostics of Gas Flow Sputtering Using Ar/He Mixtures
[Jai Che Chen - Hong Kong Polytechnic University]

SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (Invited)
Continuous PVD Roll-to-Roll Processed Material for Fuel Cells: Towards Future Production of Metallic Bipolar Plates and Interconnects for PEMEC Applications
[Kunal Sahlozai - Atotech]

Plasma Processing and Diagnostics (PP)
Graphite Doped Lithium Based Sputtering Targets for DC Deposition of DLN for Thin Film Batteries Applications
[Peter Polak - Plansee Composite Materials GmbH]

HIPIMS (HP)
HIPIMS: Technology with stable industrial evolution commercially viable
[Chinmay Tilavat - IKI Vacuum Techno Coating K.K.]

HIPIMS (HP)
Comparative Study of Growth and Properties of TiZn Thin Films Deposited by Conventional and Pulsed Magnetron Sputtering
[Anna Ghafoor - Aachen Coating Technologies GmbH & Co. KG]

HIPIMS (HP)
Automotive Efficiency and Durability of Nanostructured HiPIMS-Deposited Magnesium Alloy Coatings: TiN/MN Control
[Andrew P. Ehiasarian - Sheffield Hallam University]

HIPIMS (HP)
Real-Time Optimization of HiPIMS Processes Using Pulse-Resolved Spectroscopy and Electrical Plasma Process Control
[Thomas Schütze - PLASUS GmbH]

HIPIMS (Pulsed)
Towards Reactive Gas Pulsing Using Pulsed Electrical Strikes - The Role of Metal Ions in Plasma-Activated Reactive Processes
[Tetsuhide Shimizu - Tokyo Metropolitan University]

Advanced Multifunctional Coatings: (Invited)
Advanced Active and Inactive Cooling Technologies Improve Life and Safety of Lithium-Ion Batteries for Automotive and Grid Applications
[Ralph Kemp - Argonne National Laboratory]

Advanced Multifunctional Coatings (AMC)
Vacuum-Evaporated Composite Copper Foil for Lithium-Ion Batteries: Fabrication and Performance
[Chun Lin - Stevenson University China]

Advanced Multifunctional Coatings (AMC)
Hydrogenated Diamond-Like Carbon Films Grown by a Beam Plasma Source
[Valdeka Amelia - Egertec Uniovalg]

Advanced Multifunctional Coatings (AMC)
Spectral Analysis of Plasma Emission Spectra Towards Sensors for Battery Cell Manufacturing
[Jan Ole Gerdes - Fraunhofer FEP]

Advanced Multifunctional Coatings (AMC)
Advanced Corrosion and Wear Resistance of R&M and 7075 Alloys via Optimized Anodizing and DLC Deposition
[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
[Friedrich Dejun - Ghent University]

10 minute passing break

Large Area (Invited)
Flexible Thin Film Encapsulation Layers Coatings for Display Lower Cities
[Brian Holsclaw - Corning Inc.]

Characterization, Testing, and Failure Analysis (ICT)
Energetic Quasiparticle Superconductors in WTeX with Silver Metal Contacts
[Ho Bum Sohn - Korea Research Institute of Standards and Science]

Characterization, Testing, and Failure Analysis (ICT)
Controlled Synthesis of 2D TMDs with Tunable Dopants and Optoelectronic Characteristics
[Zhong-Chun Chen - National University of Taiwan]

Characterization, Testing, and Failure Analysis (ICT)
Wafer-Level, Ultra-Long Spans and Single Functional Area Devices on the Tribological Behavior of DLC/Si Coating
[Ion Mihailescu - Laser Department, National Institute of Lasers, Plasma and Radiation Physics, Bucharest, Romania]

SPONSORED STUDENT PRESENTATION

Large Area (LT)
Scalable Manufacturing of Signal-Penetrating Low-E Glass via Plasma-Free Ion Implantation
[Giovanni Ding - Lucid Glass Corporation Corp.]

Large Area (LT)
Going Large - Predictive and Optimization of Layer Thickness Distributions in Large-Area Magnetron Sputtering
[Eric Valdenaire - Fraunhofer-IST]

Characterization, Testing, and Failure Analysis (Invited)
Thin Film Characterization Using Synchrotron Radiation
[James Mitchell - J.A. Woollam Co.]

Characterization, Testing, and Failure Analysis (ICT)
Advances in the Fourier Sensing of AFS and Other Types of Data
[Matthew Linford - Brigham Young University]

Characterization, Testing, and Failure Analysis (ICT)
Correlated Lattice-Parameter and Electric-Field Mapping in Ferroelectric Thin Films
[Xiaoan Zhu - Cornell]

Coatings and Processes for Biomedical Applications (BP)
Estimating the Lifetime of the Antimicrobial Property of Silver Containing Titanium Nitride Coatings for Implanted Biomedical Electrodes
[Lorenzo Gregorio - Fraunhofer]

Coatings and Processes for Biomedical Applications (BP)
Antibacterial Coatings for Medical Devices: Comparison of Antibacterial Functionality for Nanocrystalline-Amorphous Diamond
[Kirill Pandiar - Drexel University]

Coatings and Processes for Biomedical Applications (Invited)
From Telescope to Biotech - Closing the Loop with Thin Films
[Matthias Wagner]

HIPIMS (HP)
Time Resolved Investigation of Ion Flux, Ionization Degree, and Plasma Composition within a HiPIMS Pulse
[Ralf Bandorf - Fraunhofer IST]

HIPIMS (HP)
"Through-Glass Via Metallization Using HiPIMS Copper Layer: Ultra-Thin Seed Layer Deposition"
[Thomas Schütze - PLASUS GmbH]

SPONSORED STUDENT PRESENTATION

HIPIMS (HP)
Advanced HiPIMS Coating Equipment for High-Performance Cutting Tools Avoid Tungsten Price Increase
[Wei Zhou - Guangdong Huizhong Instrument Co.]

HIPIMS (HP)
Reactive Sputtering Discharge Dynamics by Pulse Sequencing in Multi-Pulse HiPIMS
[Erdong Chen - Tokyo Metropolitan University]

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

20 minute refreshment break

Quantum Computing (Invited)
Complete Interchange Control with Much-Neglected Qubits
[Eli Levenson-Falk - University of Southern California]

HIPIMS Colloquium
"The Innovation Spiral of HiPIMS Towards Industrialization"

Photonically Induced Transformations of Thin Films (Invited)
Photon Induced Nanoscale Patterning of Thin Metal Adhesion Work Functions - SLIM Bergkamen University

30 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 (UMAP)
Long Beach Convention Center Promenade: 102 B

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

SMF: Power to X
Jörg Neidhardt (Fraunhofer-FEP) / Adam Obrusnik (Plasmafashion)
Hyatt Regency: SeaView Ballroom A

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 (Elliptico)
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 – 8:00 PM

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

8:00 PM – 10:00 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 Ridenour Sarjeski 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) /Jenny Height (Semicorex)
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 Fabrica, Ltd.) / Edmund Schingel (VAT Group)
Hyatt Regency: SeaView Ballroom A

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

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

7:30 AM – 9:30 AM

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10 minute passing break

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

10 minute passing break

Exhibitor Innovator Showcase (ESI)
Integrated Mechanical Cleaning and Contamination Solutions for Vacuum Coatings
[Parth Ketak - Anton Paar USA Inc.]

Exhibitor Innovator Showcase (ESI)
Cutting Waste from UHP Technical Products
[Marcel Arvay - DMP Technical Products]

Exhibitor Innovator Showcase (ESI)
New Plasma Source Technology to Help Combat Global Supply Chain Disruptions and Material Price Increases
[Dermot Monaghan - Gencoa Ltd]

Organic and Perovskite Electronics (Invited)
Achieving Comparable Stability in Perovskite Thin Films by Vacuum Deposition
[Jay Patel - King's College London]

Organic and Perovskite Electronics (ES)
From Promises to Performance: The Impact of UV Inspection on Halide Perovskite Thin Films and Devices
[Nina Tye - University of Oxford]

Process Monitoring, Control, and Automation (PC)
From Legacy to Intelligence: How Modern Sensors Cutters with Edge Control Monitoring
[Marcus Klein - SURAGUS GmbH]

Process Monitoring, Control, and Automation (Invited)
Transforming Manufacturing Through Advanced Chamber Process Control
[Pedro Reyes Santiago - VAT Vakuumventile AG]

Organic and Perovskite Electronics (ES)
3D Assisted HiPIMS on a Single Target: Discharge Stability and Ionization Behavior for Analog-Prone Materials
[Anna Wilczura-Ciesielczuk - TRUMPF Huettinger Sp. z o.o.]

HIPIMS (HP)
Industrial HiPIMS - Process Challenges, Tools and Innovations
[Rafael Sánchez Nadagui - Ionautics]

HIPIMS (HP)
HI MFs/S MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via
[Tianqi Jiao - Tong Chip Intensity]

HIPIMS (HP)
HI Solution HiPIMS on a Single Target: Discharge Stability and Ionization Behavior for Analog-Prone Materials
[Anna Wilczura-Ciesielczuk - TRUMPF Huettinger Sp. z o.o.]

Advanced Multifunctional Coatings (Invited)
Powder Atomic Layer Deposition of Ultra-Thin Conformal Solid Electrolyte Coatings
[Christopher Sung - Forge Nano]

Organic and Perovskite Electronics (ES)
Advanced Electrical Characterization of Thin Film Transistors Properties in Nanomaterials and Oxide Technology
[Anton Paul Vish Leo]

Organic and Perovskite Electronics (ES)
Non-Fullerene Acceptor Molecular Design Towards Overcoming Vacuum Sensitivity
[Shadeed Khayman - INFICON]

20 minute refreshment break

Exhibitor Innovator Showcase (ESI)
Industrial Ready Hydrogen Sensor Technology Based on Palladium Coatings for Production Tools
[Anna Wilczura-Ciesielczuk - TRUMPF Huettinger Sp. z o.o.]

**Process Monitoring, Control, and Automation (PC