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) / Amelia Wickerlin (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 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)

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 coaters: 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
[Judith Weiss-Hortala] - [Aix-Marseille University]

Characterization, Testing, and Failure Analysis (ICT)
Cycling Nano-Foam DMF Technical Products
[Marcel Anega - DMF Technical Products]

Characterization, Testing, and Failure Analysis (ICT)
Exploring Stress-Free DMF Technical Products
[Ziling Zabalala - Polytechnique Montréal]
SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (PP)
Ravaglioli Group's Specialized DMS-RCA and a Related Gaseous-Control System Demonstrated for the PR4-DRIEA System
[Chris Nieces - Oak Ridge National Laboratory]

Plasma Processing and Diagnostics (PP)
Tuning the Properties of PTFE Films Prepared by Ion Beam Assisted Deposition (IBAD)
[Ziling Zabalala - Polytechnique Montréal]
SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (PP)
Time-Resolved OES Diagnostics of Gas Flow Sputtering Using Ultra-Fast Gas Pulses
[Jui-Che Chen - Hong Kong Polytechnic University]
SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (Invited)
Continuous PVD Roll-to-Roll Presoaked Material for Fuel Cells: Towards Future Production of Metallic Bipolar Plates and Interconnects for PEM/SOC Applications
[Kunal Sabharwal - Advanced]

Plasma Processing and Diagnostics (PP)
Arc Quality Analysis of Powder Metallurgical Ti6Al7Nb Target by Means of Pulsed Arc PVD Process
[Beata Mikolajczak - RHP-Technology GmbH]

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

HiPIMS (HP)
HiPIMS: Technology with stable industrial revolution commercially viable
[Chinmay Trivedi - 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 Ehrhardt - Anhalt University Technology GmbH & Co. KG]

HiPIMS (HP)
Automotivated Efficiency and Durability of Nanostructured HiPIMS-Deposited Molybdenum Based Thin Film Coatings
[Andrew P. Ehiasarian - Sheffield Hallam University]

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

HiPIMS (Invited)
Towards Reactive Gas Pulsing Optimized Wetting - The Role of Metal Ion to Plasma-Activated Reactive Species
[Yoshihide 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 - Southeast University-China]

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

Advanced Multifunctional Coatings (AMC)
Spectral Analysis of Plasma Nitrided Steels for Batteries for On-Site Energy Storage
[Leon Wagner - Politecnico di Milano]

Advanced Multifunctional Coatings (AMC)
Advanced Corrosion and Wear Resistance of DLC and TiSiTa Films via Optimized Arcbonding and DCC Deposition
[Leon Wagner - 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)
Flexo Production of Functional Layers Coatings for Display Cover Glass
[Brian Holsclaw - Corning Inc.]

Large Area (17)
Roll-Plasma Source Enhanced Deposition of High- and Low-Index Oxide Thin Films
[Thomas Jan - Michigan State University]

Large Area (17)
Enabling Large-Area Advanced Packaging Through Optical In-Situ Metrology in Sputter Deposition
[Anja Haberland - Leybold AG]

Characterization, Testing, and Failure Analysis (ICT)
Indio: Optical Parameter Characterization Measurement for Thin Film Photonics
[Tim Dickie - Advanced Energy]

Characterization, Testing, and Failure Analysis (ICT)
Emergent Quasiparticle Superconductors in WTe2 with Silver Nanowire Electrodes
[Do-Bum Sohn - Korea Research Institute of Standards and Science]

Characterization, Testing, and Failure Analysis (ICT)
Controlled Synthesis of 2D TiNbCs with Tunable Dopants and Optoelectronic Characteristics
[Shuya Cui Chu - National University of Taiwan]

Characterization, Testing, and Failure Analysis (ICT)
Influence of Laser, Sliding Speed and Single Transient Arcs Density on the Tribological Behavior of DLC/Ti Coating
[Ion Mihailescu - National Institute for Laser, Plasma and Radiation Physics]
SPONSORED STUDENT PRESENTATION

Coatings and Processes for Biomedical Applications (CPI)
Estimating the Lifetime of the Antimicrobial Property of Silver Containing Titanium Nitride Coatings for Implanted Biomedical Electrodes
[Lenandlan Tshepiso - Pennsylvania]

Coatings and Processes for Biomedical Applications (CPI)
Antimicrobial Silver Nanoparticle Coatings Using Plasma Antibacterial Functionality for Neurostimulation Implantable Devices
[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)
"Through-Glass Via Metallization Using HiPIMS Copper Layer-Strong Effect Of Substrate Bias"
[Ming-Chen Wu - Industrial Technology Research Institute]
SPONSORED STUDENT PRESENTATION

HiPIMS (HP)
Advanced HiPIMS Coating Equipment for High-Performance Cutting Tools Avoid Tungsten Price Increase
[Wei Chou - Guangdong Huizhong Instrument Group]

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

Large Area (17)
Scalable Manufacturing of Signal-Penetrating Low-E Glass via Plasma-Free Ion Implantation
[Xiaowen Ding - Lawrence Livermore Lab]

Large Area (17)
Going Large - Predictive and Optimization of Layer Thickness Distributions in Large-Area Magnetron Sputtering
[Eric Valdenaire - Fraunhofer IST]

Large Area (17)
High-Throughput Coating Uniformity Using a Carousel Type Sputtering System
[Matthew Linford - Brigham Young University]

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

Characterization, Testing, and Failure Analysis (ICT)
Correlated Lattice-Parameter and Electric-Field Mapping in Ga2O3/AlGaN Thin Films
[Huanan Zhu - Cornell]

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 Metal Halide Perovskites
[Mark Pattis - SUNY Binghamton University]

30 minute break

Sunset Meeting Forums

SMF: Advanced Deposition Coating Hardware
Frank Papa (QIP 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 (Avalueé)
Long Beach Convention Center Promenade: 102 C

SMF: Power to X
Chris Stoessel (Stoessel Consulting) / Adam Obrzanik (PlasmaSolve)
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 (Ellatco)
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 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) / 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 Fotika, Ltd.) / Edmund Schingel (VAT Group)
Hyatt Regency: SeaView Ballroom A

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

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

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10 minute passing break

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

10 minute passing break

Exhibitor Innovator Showcase (ESI)
Integrated Mechanical Stress Mitigation Metallization Solutions for Vacuum Coatings
[Parth Kotak - Anton Paar USA Inc.]

Exhibitor Innovator Showcase (ESI)
Exploring Nano-Foam DMF Technical Products
[Marcel Anega - DMF 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 (PE)
From Promise 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)
Process Monitoring, Control, and Automation Enabled Custom-Width Current Monitoring
[Marcus Klein - SURAGUS GmbH]

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

Process Monitoring, Control, and Automation (PC)
RF Assisted HiPIMS on a Single Target: Discharge Stability and Ionization Behavior for Analog-Prone Materials
[Anna Mikriova Ehrenreich - TRUMPF Huettinger Sp. z o.o.]

HiPIMS (HP)
HI-MALL® MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via
[Tianqi Jiao - Tong'Jiu Intensify]

HiPIMS (HP)
Industrial HiPIMS - Process Challenges, Tools and Innovations
[Michel Sánchez Nodagar - Ionautics]

HiPIMS (HP)
HI-MALL® MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via
[Tianqi Jiao - Tong'Jiu Intensify]

Advanced Multifunctional Coatings (Invited)
Powder Atomic Layer Deposition of Pt Commercial Scale for Catalysis
[Christopher Sung - Forge Nano]

Organic and Perovskite Electronics (PE)
Transforming Perovskite Manufacturing: Vacuum-Assisted Chamber Process Control
[Pedro Reyes Santiago - VAT Vakuumventile AG]

Organic and Perovskite Electronics (PE)
Industrial Roll-to-Roll Vacuum Deposition of Perovskite Solar Cells: Challenges and Opportunities
[Anna Mikriova Ehrenreich - TRUMPF Huettinger Sp. z o.o.