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 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 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 Hermann - Fraunhofer IST)

20 minute refreshment break

Large Area Colloquium
"Giving new life to old coaters: Modernization of coaters for new demands"

Large Area (1/7)
Vacuum Deposition Technologies for Thin Film Batteries
(Tassilo Ruhnaugel - ISEMA)

Large Area (2/7)
Roll-to-Roll Vacuum Deposition of Li-Ion Batteries
(Antoine Sirdenkin - ALPS ADVANCE GmbH)

Characterization, Testing, and Failure Analysis (C7)
Results using a Specialized ZGH-RGA and a Related Remote-Control System Demonstrated for the PVD ERDCA System
(Dirk Mance - Die Mage Science Laboratory)

Characterization, Testing, and Failure Analysis (C7)
Experimental Study of Laser Thin Film Processing Softening and Wrinkling of Aluminum Foil Link for Bipolar Plates Electrochemical Compressor Hydrogen Fuel Cell Stack
(Tim Kamminga - STRAUSS PROCESS SARL)

Characterization, Testing, and Failure Analysis (Invited)
Surface Coating, Treatment, and Analysis of Materials for Medical Devices
(Bernard Kelly - Surfaceworks)
(Recommended video presentation)

Characterization, Testing, and Failure Analysis (C7)
Influence of Laser, Ion Beam, and Plasma Treatment of Polymer Films on the Tribological Behavior of DLC/H Coating
(Ben Wilson - Universidad Pública de Navarra (UPNA))
SPONSORED STUDENT PRESENTATION

Characterization, Testing, and Failure Analysis (C7)
Reliable Mechanical Characterization of Vacuum Coatings: Beyond Position to Decomelerization and Scratch Testing
(Parth Kotak - Anton Paar USA Inc.)

Characterization, Testing, and Failure Analysis (C7)
Arc Evaporated Cathodic Arc Deposited Cr/CrN Coatings Target by Macro of Partial Arc PVD Coating
(Barry Miranda - RMTA Kashan University)

Plasma Processing and Diagnostics (PPD)
Results using a Specialized ZGH-RGA and a Related Remote-Control System Demonstrated for the PVD ERDCA System
(Dirk Mance - Die Mage Science Laboratory)

Plasma Processing and Diagnostics (PPD)
Tuning the Properties of PVD Films Prepared by Ion Beam Assisted Deposited via Reactive Sn/Bi and HiPIMS
(Oleg Zabeida - Polytechnique Montréal)

Plasma Processing and Diagnostics (PP)
Time-Resolved OES Diagnostics of Cu Ion Flux Sputtering Using a Copper Target
(Jui-Chen Chang - Industrial Technology Research Institute)
SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (Invited)
Continuous PVD Roll-to-Roll Processed Materials for Fuel Cells: Opportunities and Challenges for Ultra-Low Pt Loadings and Interconnects for PEM/SOFC Applications
(Kunal Sabharwal - Atlantus)

Plasma Processing and Diagnostics (PP)
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)

HiPIMS (PP)
Graphene Oxide Thin Film Synthesis by Pulsed DC Deposition of GPOX for Thin Film Batteries Applications
(Peter Polcik - Plansee Composite Materials GmbH)

Advanced Multifunctional Coatings (Invited)
Advanced Active and Inactive Cooling Technologies to Improve Life and Safety of Lithium-Ion Batteries: Automotive and Grid Applications
(Khalil Amine - Argonne National Laboratory)

Advanced Multifunctional Coatings (AMF)
Sputtered Oxide Fast-Ion Conductor Thin Films for Solid-State Batteries: Sr-Zn-Ti-Eng Energy Storage
(Zabeda Aouadi - Agnitron Technology)
(pre-recorded video presentation)

Advanced Multifunctional Coatings (AMF)
Lightweight Fractured Zinc Carbon Tows Derived by a Novel Plasma Source
(Tadahiro Ando - Agnitron University)
(pre-recorded video presentation)

Advanced Multifunctional Coatings (AMF)
Vacuum-Evaporated Composite Copper Foil for Lithium-Ion Batteries: Fabrication and Performance
(Sun Liu/Shenfeng Lu - Northeastern University China)

Advanced Multifunctional Coatings (AMF)
Sputtered Thin Film Solid Electrolyte Li7La3Zr2O12 (LLZO) for Optimized Wetting and ISC Suppression
(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.)

Large Area (3/7)
Beam Plasma Source Enhanced Reactive Sputtering of High- and Low-Index Oxide Thin Films
(Junwen Lee - Michigan State University)

Large Area (3/7)
Exciting Large-Area Advanced Packaging Through Optical In-Situ Metrology in Sputter Deposition
(Helge Hahnenkamp - Leybold - AGC)

Characterization, Testing, and Failure Analysis (C7)
Intlis Optical Pyrometer Enhancing Measurement for Thin Film Processes
(Eric Quiñer - Industrial Image)

Characterization, Testing, and Failure Analysis (C7)
Emergent Superparamagnetic Superconductor in WTe2 with Silver Mesoscale Metalattices
(Ke-Dam Sohn - Korea Research Institute of Standards and Science)

Characterization, Testing, and Failure Analysis (C7)
Controlled Sputtering of Ni/Cu/Ni Tunable Magnetic and Electrical Properties
(Zhong-Kai Chu - National University of Tenaw)

Characterization, Testing, and Failure Analysis (C7)
Optical Characterization, and 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 Reinforced Plasmaassisted Atomic Layer Deposition
(Sener Oğuzhan - Roxan University)

Coatings and Processes for Biomedical Applications (BP)
Electrically Reinforced Titanium Electrodes with Integrated Antibacterial Functionality for Non-Antimicrobial Implantable Applications
(Nick Farshid - Drexel University)

Coatings and Processes for Biomedical Applications (Invited)
From Tubercle to Biofilm - Closing the Loop with Thin Films
(Matthias Wagner)

HiPIMS (HP)
Two Resolved Investigations on Ion Fraction, Ionization Degree, and Plasma Characteristics in Argon Gas a HiPIMS Pulse
(Ralf Bandorf - Fraunhofer IST)

HiPIMS (HP)
Through-Glass Via Metallization by Using HiPIMS Copper Layer
(Kang-Chen Wu - Feng Chia University)
SPONSORED STUDENT PRESENTATION

HiPIMS (HP)
Advanced HiPIMS Coatings Deposition Using High Performance Cutting Tools Field Emission Pins Arrays
(Yahia Chen - Guangdong Huizheng nanotechnology)

HiPIMS (HP)
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"

Large Area (1/7)
Reliable Manufacturing of Rigid-Flexo-Integrated-X Glass via Photonic Laser Lithography
(Sunnen Ding - Laboratoriumglas Lasag)

Large Area (2/7)
Spring Loop - Prediction and Optimization of Layer Thickness Distribution for Roll-to-Roll Vacuum Coating
(Eric Valkhoff - Fraunhofer IST)

Large Area (3/7)
High-Throughput Large-Area Coating Using a Carousel-Type Sputtering System
(Takuyo Sugawara - Shincron Co., Ltd.)

Large Area (3/7)
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 Film Coatings
(Matthias Lorenz - Brighton Young University)

Characterization, Testing, and Failure Analysis (C7)
Contrast Enhancement Using Ultraviolet Light Imaging in Anti-Reflective Thin Films
(Xiaoxin Chu - Covalent)

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 Industrialisation"

Photonically Induced Transformations of Thin Films (Invited)
Photonic Post-Processing of Printed Inks on Flexible Substrates
(Mark Pellks - SUNY Binghamton University)

Overflow (OP)

Overflow (OP)

20 minute break

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 (UMAP)
Long Beach Convention Center Promenade: 102 B

SMF: Advanced Deposition Coating Hardware
David Sanchez / Christos Pernagidis (Avalovet)
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 (Ellabcco)
Hyatt Regency: Seaview Ballroom B

SMF: Large-Area Advanced Packaging and Integrated Photonics
Patrick Morse (Arizona Thin Film Research, LLC) / Manuela Junghähnel (Fraunhofer-AESAS)
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 (Lackpeak USA) / Jean-Pierre Delsca (BOC, Redwood)
Long Beach Convention Center Promenade: 102 A

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

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

TFB: Process Monitoring & Control
Martynas Audronis (Nova Fabrica, Ltd.) / Edmund Schingnel (VAT Group)
Hyatt Regency: Seaview Ballroom A

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

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

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 Salicylate Precursor Sintering Technique Enabled PET+Cu Composite Current Collectors
(Kunhong Ju - Northeastern University China)

Advanced Multifunctional Coatings (AMF)
Stabilizing Lithium Metal Anodes with Vacuum-Deposited PET+Cu Composite Current Collectors
(Kunhong Ju - 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)

Organic and Perovskite Electronics (OP)
Monolayer Interfacial Recombination Losses in Perovskite Solar Cells Revealed by Transient Photovoltage Spectroscopy
(Dan Lamb - University of Toledo)
SPONSORED STUDENT PRESENTATION

Organic and Perovskite Electronics (OP)
High Voltage All-Evaporated Lead-Free Inorganic Perovskite Photovoltaic Modules
(Rafic Ajluni - Brookhaven National Laboratory)
SPONSORED STUDENT PRESENTATION

Organic and Perovskite Electronics (OP)
Thermal Co-Evaporation of Thin Film Photovoltaics by the Cluster Source Method
(Jim Van Scheepen - University of Oxford)

Organic and Perovskite Electronics (OE)
Optical In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights
(Vedje Nakarmi - LayTechS)

Process Monitoring, Control, and Automation (PC)
From Legacy to Industry 4.0: Retrofitting Vacuum Coaters with Edge Control Monitoring
(Marcus Bish - SURFACE Group)

Process Monitoring, Control, and Automation (Invited)
Transforming Thin Film Manufacturing: Automation and Data Integration
(Pedro Reyes Santiago - VAT Vakuumventile AG)

HiPIMS (HP)
HiPIMS(P+) Practical Implementation of Pulse Control
(Jan Dickehuth - Starfire Industries)

HiPIMS (HP)
Industrial HiPIMS – Process Challenges, Tools and Innovations
(Rafael Bashkin - Kaiser)

HiPIMS (HP)
60 MHz/1 MHz Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via
(Tsung-Hao Chen - Feng Chia University)

HiPIMS (HP)
HiPIMS(P+) Practical Implementation of Pulse Coatings on Inner Surface of Small Diameter Long Tubing
(Jan Dickehuth - Starfire Industries)

This Film Contributions for the Hydrogen Economy (Invited)
Hydrogen Born or Burn? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up
(Nadim Rajman - Schaeffler Technologies)

This Film Contributions for the Hydrogen Economy (OP)
Exploring Tribometers for Hydrogen Gas Seal Materials for PEM Electrolyzers
(Ralf Bandorf - Fraunhofer IST)

20 minute refreshment break

20 minute refreshment break

Exhibitor Innovator Showcase (EIS)
Cutting Seven Fives OIP Technical Products
(Marcel Kempe - OIP Technical Products)

Exhibitor Innovator Showcase (EIS)
Improving Throughput and Film Quality with the Modern, Efficient Mass Flow Controller Technology for Thin Film Applications
(Gerrit Langlotz - Edwards Vacuum)

Exhibitor Innovator Showcase (EIS)
New Plasma Source Technology to Help Combat Global Supply Chain Disruptions and Material Price Increases
(Dietmar Monaghan - Sensus Ltd)

Exhibitor Innovator Showcase (EIS)
Dual Output, Half-Bio Footprint, Full Control in Sealless Reactive Sputtering Power Supply Solution Enabling Stable Operation with PIS and Advanced Arc Control for Faster Reporting and Lower CAPEX
(Rudy Krzysztof - TRUMPF Huettinger)

Exhibitor Innovator Showcase (EIS)
Integrated Mechanical Analysis and Optimization 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 of DP Plasma
(Frank Papa - UP Plasma LLC)

Process Monitoring, Control, and Automation (PC)
Beyond Traditional High Power Impulse Magnetron Sputtering
(Dan Boychenko - Trumpf Huettinger USA, Inc)

Process Monitoring, Control, and Automation (PC)
Real, Highly Responsive Process Control Technology for Atomic Scale Processes
(Brian Pinney - Brooks Instrument)

Process Monitoring, Control, and Automation (PC)
Critical Substrate Temperature Plays a Key Role in the Global Wafer Fab Energy Management
(Frank Dunn - Tom Group)

Process Monitoring, Control, and Automation (PC)
Toward Intelligent In-Situ Metrology: From Real-Time Data to Actionable Process Control
(Hall Chen - h-Space Associates)

This Film Contributions for the Hydrogen Economy (OP)
PVD Coatings for the Hydrogen economy - Applications, Testing Methods and Practical Implications
(Herbert Gabriel - PVT Plasma and Vacuum Technik GmbH)
(pre-recorded video presentation)

This Film Contributions for the Hydrogen Economy (OP)
Correlating Deposition Parameters with Structure and Sensing Performance in Pd Thin Film Hydrogen Sensors
(Ahmad Ali Ibrahim - Universidad Pública de Navarra (UPNA))
SPONSORED STUDENT PRESENTATION

This Film Contributions for the Hydrogen Economy (OP)
Thin Coated Hollow Glass Spheres as Hydrogen Storage Media: Layered Thin Films for Recycling Old 3D Bipolar Plates in PEM Fuel Cells Using HiPIMS(P+) + Positive Etch+
(Brian Jurczyk - Starfire Industries LLC)

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 Glukhoy - Nanocoating Plasma Systems)

POSTER (P3): Front Contact ITO/Al/Ni/Ag 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 Shulman - Los Alamos National Laboratory)

POSTER (P5): Influence of E-Beam Evaporation Parameters on Coating Phase Transformation (Ren Liu - Northeastern University China)

POSTER (P6): Study on the Band Strength of Flexible Film Substrates (Ren 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 Valkhoff - Fraunhofer IST)

10:00 AM Exhibitor B2B Coffee Hour

11:00 AM Exhibit Hall Opens

2:30 - 4:30 PM Poster Session

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

(3) High Power Impulse Magnetron Sputtering (HIPIMS) TWG & (4) Protective, Tribological, and Decorative Coatings TWG & (5) Thin Film Contributions for the Hydrogen Economy TWG
Long Beach Convention Center Promenade: 102 A

(6) Process Monitoring and Diagnostics TWG & (7) Atomic Layer Processing TWG
Long Beach Convention Center Promenade: 102 C

(8) WebTech Roll-to-Roll Technologies and Innovation TWG & (9) Emerging and Transitional Technologies and Applications TWG
Long Beach Convention Center Promenade: 102 B

(10) Optical Coatings TWG & (11) Photonically Induced Transformations of Thin Films and Surfaces TWG
Long Beach Convention Center Promenade: 102 B

(12) Electron Beam Processes TWG & (13) Coatings for Energy Conversion and Related Processes TWG
Hyatt Regency: Seaview Ballroom B

(14) Advanced Multifunctional Coatings TWG & (15) Advances in Thin Film Sensor Technologies TWG
Hyatt Regency: Seaview Ballroom A

(16) Digital Transformation through AI, Machine Learning, Simulation and Data Science TWG & (17) Process Monitoring Control and Automation TWG
Hyatt Regency: Seaview Ballroom C

(18) Characterization, Testing, and Failure Analysis of Thin Films TWG & (19) Coatings and Processes for Biomedical Applications TWG
Hyatt Regency: Shoreline A

(20) Organic and Perovskite Electronics TWG & (21) 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 - Sencorp Inc)

Exhibitor Innovator Showcase (EIS)
Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Experienced Users Should Know About
(Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)

Exhibitor Innovator Showcase (EIS)
Next-Generation Rotary Sensor Technology for Demanding Vacuum Coating Applications
(Sheldon Wayman - INFICON)

Exhibitor Innovator Showcase (EIS)
Tungsten and Molybdenum 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 DLCMAX Platform
(Bruno Dzeworski - Oerlikon Balzers Coating USA)

Exhibitor Innovator Showcase (EIS)
X-ray Diffraction and X-ray Reflectivity for Thin Film Phase Identification - Recipes and Tools for Process Characterization
(Lawrence Anderson - Chemtr)

Exhibitor Innovator Showcase (EIS)
Next-Generation Vacuum Coating Equipment: Advancing Semiconductor Thin Film Deposition Technology Through Robotic Integration
(Zhiming Luo - Guangdong Huizheng Vacuum Technology Co.,Ltd)

Overflow (OP)

Overflow (OP)

Emerging and Transitional Technologies (ET)
Hybrid Deposition Process for Ultra-Low Pt Loading Fuel Cells
(Ken Teshima - Shinshu University)

Emerging and Transitional Technologies (ET)
Industrial Production of Graphene Oxide Using Cheap Graphite Flake Feed Stock
(Lars Ahlman - Avanzare Innovacion)

Emerging and Transitional Technologies (ET)
Industrial Production of Graphene Oxide Using Cheap Graphite Flake Feed Stock
(Lars Ahlman - Avanzare Innovacion)

Process Monitoring, Control, and Automation (PC)
Real-Time Contaminant Particle Monitoring During Thin Film Deposition Processes Using Laser Diffraction Sensor Technology
(Ludwik Martinez - Polytechnique Montreal)

Process Monitoring, Control, and Automation (PC)
Process Monitoring, Control, and Automation (PC)
Industrial Scale Up of Reactive Magnetron Sputtering of Metallic Oxyfluorides Coatings Using Optical Emission Spectroscopy Closed-Loop Control
(Tiffanie Hernandez Rodriguez - Teknikor)

Process Monitoring, Control, and Automation (PC)
Process Monitoring, Control, and Automation (Invited)
Beyond Set Gauges: Vision-Based Process Control Vacuum Sensing for Modern Coating Systems
(Jaime Gonzalez - Sensorex)

Process Monitoring, Control, and Automation (PC)
In-Vacuum Color Monitoring to Improve Process Repeatability in Roll-to-Roll Vacuum Coating
(Jan-Peter Schaub - PLASUS GmbH)

Optical (OP)
Active Nanostructured Optical Coatings for Energy, Exposure and Sensing Applications
(Ludvik Martinez - Polytechnique Montreal)

Optical (OP)
Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Nb2O5 Thin Films Deposited on Flexible Thermoplastic Film Substrates
(Lirong 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

Optical (OP)
Physisolbased, Plasmachemical Corrosion Masks for Large-Area Magnetronsputtered Optical Coatings
(Chien-Jen Tang - Tang Chia University)

Optical (Invited)
Recent Innovations in Optical Coating Design Software
(Michael Trubetskov - OTF Studio GmbH)

Optical (OP)
Harnessing Nd:Mg:LiNbO3 Plasma Dynamics in RF-Magnetron HiPIMS for Dense and Low-Absorption Optical Films
(Rajesh Sonawan - Avancis Coating Technologies GmbH & Co KG)

Optical (OP)
Development of Reflective Optical Coatings Using a Semi-Automated Spectroscopic Phase Measurement System
(Christopher Cook - Edmund Optics)

Optical (OP)
High-Consistency Vacuum Coating Equipment and Process Platform for Large-Area Optical Components
(Zhiling Li - Guangdong Huizheng Vacuum Technology Co., Ltd.)

Large Area Advanced Packaging and Integrated Photonics (Invited)
Expanding HiPIMS Applications for Semiconductor Manufacturing: Enabling Higher Quality, Miniaturization and Sustainability Through Advanced Process Control
(Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)

Large Area Advanced Packaging and Integrated Photonics (LP)
Expanding HiPIMS Applications for Semiconductor Manufacturing: Enabling Higher Quality, Miniaturization and Sustainability Through Advanced Process Control
(Anna Mikonowicz-Drozdowska - TRUMPF Huettinger Sp. z o.o.)

Large Area Advanced Packaging and Integrated Photonics (LP)
Sputtered Thin Film Lithium Niobate For Scalable Photonic Integrated Circuits
(Chaoyu "Nina" Sugiarto - Shincron Co. Ltd.)

Large Area Advanced Packaging and Integrated Photonics (Invited)
Digital Engines and Thin Film Nanophotonics
(Mohamed Elbakkouch - University of Arizona)
(pre-recorded video presentation)

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 Engelb (Inotherm) / Arno Shultane (Avalvac)
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 (Semicorex)
Hyatt Regency: Seaview Ballroom B

TFB: Electron Beam Processes
Stefan Sauger (Fraunhofer-FEP) / Matthias Neumann (Von Ardenne)
Hyatt Regency: Seaview Ballroom C

LBCC Promenade 106A (Program track daily room assignment)
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LBCC Promenade 101A (Program track daily room assignment)
LBCC Promenade 101B (Program track daily room assignment)

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 Sauger - Fraunhofer FEP)

Electron Beam Processes (Invited)
Vacuum Electron Beam Technology for Advanced Coatings: Applications in Equipment and Process Technology for Wire and Wire Use Silicon
(Vitin Arkhipov - VON ARDENNE Group)

Electron Beam Processes (EB)
Open Source Roll-to-Roll Electron Beam Beam Process Modeling Using VCLoss
(Ante Mitsa - Inchpelt - Technical Center Armenia Gmbh)

Atomic Layer Processing (Invited)
Directional Atomic Layer Etching of Lithium Niobate Using Plasma Chemistry
(Austin Minnich - Caltech)

Atomic Layer Processing (AP)
Creating Conformal Ultrathin Dielectrics Using PECVD's Chemical Stability Over PVD in ALD, PEALD, and CVD
(Marcin Dobska - Fabrinano)

Atomic Layer Processing (AL)
Low Resistivity Metallic Films by Thermal Atomic Layer Deposition Enabling Next Generation Interconnects
(Sara Sorto - Forge Nano)

Digital Manufacturing (Invited)
Machine-Learning-Enabled High-Throughput Optimization and Physical Properties Of Ultra-Low Resistivity Nanocrystalline Ruthenium Films and Devices
(Zhenhang Li - University of Oxford)

Digital Manufacturing (DT)
Can AI Predict Film Properties? Machine-Learning-Assisted Digital Twins for Predictive Process Windows
(Heba Salih - Canon Innovation)

Digital Manufacturing (DT)
Faulty Process Data Detection and Correction using Machine Learning
(Holger Gerdes - Fraunhofer IST)

Digital Manufacturing (DT)
Reducing Downtime and Waste in Coating Through AI Prediction
(Jim Bentley - Sensorex Ltd)

Optical (OP)
Linear Ion Beam Assisted Deposition Sputtering
(David Ebersoldt - ASPHERIX, Inc.)

Optical (OP)
Revolutionizing Optical Coatings with Ultra-Higher Deposition Rates and Plasma Stability with Ion Beam Sputtering
(Yitzi Shen - TRIUMPH Nanotech + Co. KG)

Optical (OP)
State of the Art of Ion Beam Sputtering Process Improvements for the Manufacturing of Mirrors and Other Applications
(Laurent Pinard - Laboratoire des Materiaux Avances - CNRS)

Protective, Tribological, and Decorative Coatings (TT)
Arc and Sputter Deposited Cr/CrN Coatings for Plastic Injection Molding
(Jisun Hwan Lee - Korea Institute of Materials Science (KIMS))

Protective, Tribological, and Decorative Coatings (TT)
Surface Engineering Institute (SEI), RWTH Aachen University
(Matthias Fahler - Aerodynamic Office Vaccino GmbH)

Protective, Tribological, and Decorative Coatings (TT)
Sputtering
(Jisun Hwan Lee - Korea Institute of Materials Science (KIMS))

20 minute refreshment break

Overflow (OP)

Atomic Layer Processing (AL)
Controlling the Crystallinity of Ru Thin Films Prepared by Plasma-Enhanced Atomic Layer Deposition
(Sunk Mohan - U.S. Naval Research Laboratory)

Overflow (OP)

Overflow (OP)

Digital Manufacturing (DT)
Predicting Film Homogeneity in Large Area Sputtering: DFG-Associated Multi Spectra Transport and Energy Distribution Simulation
(Patrick Morse - Arizona Thin Film Research LLC)

Digital Manufacturing (DT)
Particle-Based Simulation of Reactive Magnetron Sputtering in an Industrial Glass Coating Chamber Using the Open Source PIC – MCC/DSMC Solver PICLas
(Paul Maximilian - Boltzplatz - numerical plasma dynamics GmbH)

Digital Manufacturing (Invited)
Navigating Digital Transformation in an Established Industrial Environment: Data, Simulation, and the Strategic Road Ahead
(Alexander Eisner - Hauck Pulver GmbH)

Optical Colloquium
"A Manufacturer's Guide to Coatings for High Power Lasers"

Protective, Tribological, and Decorative Coatings (TT)
Decorative PVD Coatings – From Film Field to the Future
(Martin Engelb - Inotherm Beschichtungen K.G.)

Protective, Tribological, and Decorative Coatings (TT)
High-Temperature Tribological Properties of Tungsten Disulfide Coatings Prepared by Magnetron Sputtering
(Yuki Nimori Kawabata Cabezas - Instituto de Ingeniería y Desarrollo Industrial (UDEM))

Protective, Tribological, and Decorative Coatings (TT)
Decorative PVD Coatings – From Film Field to the Future
(Martin Engelb - Inotherm Beschichtungen K.G.)

40 minute Lunch break

Photonically Induced Transformations of Thin Films (Photon)
Optimization of CIGSE Vertical-Graded Silver Doping for Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors
(Sumit Goswami - University of Oklahoma)

Photonically Induced Transformations of Thin Films (Invited)
Process-Based Programming of Sputtering Nanoscribes Prepared by Glancing Angle Deposition and Ion Beam Etching
(Mustafa Bulutay - University of Pittsburgh)

Photonically Induced Transformations of Thin Films (Invited)
Controlling Photodamaging in Rare-Earth Doped Nanocrystals Using Photochromic Molecular Photoswitches
(Martina Zaddene - Institute of Solid State Physics, University of Latvia)

Overflow (OP)

Sensors (SE)
Versatile Electronic Sensor Prototyping Platform Using Roll-to-Roll PLOE and Laser Patterned Vacuum Processed Films
(Chris Mendoza - University of Dayton)

Sensors (SE)
Challenges and Opportunities of Copper Nitride Nanostructures Synthesis and Sensing Applications
(Ahmad Ali Ibrahim - Universidad Pública de Navarra (UPNA))
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Sensors (SE)
Epitaxial Growth from a Thermal Evaporant: Highly Active Arsenic Sensors Made by Thermal Arsenic
(Ralf Pasquale - University of Toledo)
SPONSORED STUDENT PRESENTATION

Overflow (OP)

Optical (OP)
Thickness Distribution Modeling and Mask Optimization for Freeform Sub-Wavelength Coating Processes
(Tsu-Hsiu Chan - Ewb Young Vacuum Equipment Co., Ltd.)

Optical (OP)
Optical Measurements of Large-Aperture Diamond Coatings on Silicon Wafers: Effect of Substrate Or