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 (Gilas Trioech)
Hyatt Regency: Seaview Ballroom B

TFB: Transparent Conductive Materials (TCM)
Clark Bright (Bright Thin Film Solutions, LLC) / Patrick Morse (Arizona Thin Film Research, LLC)
Hyatt Regency: Seaview Ballroom C

LBCC Promenade 106A [Program track daily room assignment] | **LBCC Promenade 104B** [Program track daily room assignment] | **LBCC Promenade 104C** [Program track daily room assignment] | **LBCC Promenade 101A** [Program track daily room assignment] | **LBCC Promenade 101B** [Program track daily room assignment]

10 minute passing break

Compact Business Meeting (30 minutes)
All are encouraged to attend!
(LBCC Promenade 104B)

10 minute passing break

Director of Program Welcome and Conference Introduction (LBCC Promenade 104B)

Keynote (LBCC Promenade 104B)
Sustainability and Life Cycle Thinking as Innovation Drivers for Surface Engineering
(Christoph Herrmann - Fraunhofer IST)

20 minute refreshment break

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

Large Area (1/7)
Vacuum Deposition Technologies for Thin Film Batteries
[Nassim Bassenge - ISSYS]

Large Area (2/7)
HiPIMS Deposition of Cu Thin Films
[Mathieu Schlegel - HZB-HELMHOLTZ GmbH]

Large Area (3/7)
Reliable Mechanical Characterization of Vacuum Coatings: Best Practices in Nanoindentation and Scratch Testing
[Parth Kotak - Anton Paar USA Inc.]

Large Area (4/7)
Arc Evaporation Technology for Large Area Cathodic Arc Cathode Target Erosion
[Marta Mikonda - RMTA Kashan University]

Characterizations, Testing, and Failure Analysis (C7)
Influence of Cold, Melting, Sound and Shock Plasma Treatments on the Tribological Behavior of ACrN Coating
[Ion Mihaela - Universitatea Politica de Bucuresti (UPB)]
SPONSORED STUDENT PRESENTATION

Characterizations, Testing, and Failure Analysis (C7)
Ultra-Low Friction Carbon Based Coatings for Automotive and Aerospace Applications
[Gurpal Sabharwal - Alumna]

Characterizations, Testing, and Failure Analysis (C7)
Tribological Behavior of Cr/CrN Coatings Deposited by Cathodic Arc Evaporation Technique
[Ion Mihaela - Universitatea Politica de Bucuresti (UPB)]

Plasma Processing and Diagnostics (PPD)
Results using a Specialized ZUN-ROD and a Related Remote-Control System Demonstrated for the PPG EMGA System
[Mark Manus - Dr. Ralph Nelson Laboratory]

Plasma Processing and Diagnostics (PPD)
Tuning the Properties of PVD Films Prepared by Ion Beam Assisted Evaporation Using Different Precursors
[Oleg Zabeida - Polytechnique Montreal]

Plasma Processing and Diagnostics (PP)
Time-Resolved OES Diagnostics of Gas Phase Sputtering Using a Copper Target
[Jui-Chun Chang - National Tsing Hua University]
SPONSORED STUDENT PRESENTATION

Plasma Processing and Diagnostics (Invited)
Continuous PVD Roll-to-Roll Processed Material for Fuel Cells: Ultra-Low Platinum Loading Cathodes for Improved and Interconnects for PEMA/SOFC Applications
[Kunal Sjoblom - Alumna]

Plasma Processing and Diagnostics (PP)
Graphene Oxide Thin Film Fabrication by Pulsed DC Deposition of GPOR for Thin Film Batteries Applications
[Peter Polak - Plasmas Corporate Materials GmbH]

HiPIMS (PP)
HiPIMS: Technology with Industry Involvation aesthetically viable
[Chemsey Tomas - Ionbond Switzerland]

HiPIMS (PP)
Comparative Study of Growth and Properties of Thin Film Films Deposited via Reactive DcMS and HiPIMS
[Anna Obrosov - Fraiture Coating Technologies GmbH & Co. KG]

HiPIMS (PP)
Antimicrobial Efficiency and Durability of Nanostructured HiPIMS Deposited Nanoscale Multilayer TiN/NbN Coatings
[Andrea P. Ehiasarian - Sheffield Hallam University]

HiPIMS (PP)
Real-Time Optimization of HiPIMS Processes Using Pulse-Resolved Spectroscopy and Adaptive Plasma Control
[Thomas Schalkx - PLASUS GmbH]

HiPIMS (Invited)
Towards Reactive Gas Ions Synthesizing of Functional Nitrides - The Role of Metal Ions in Plasma Activated Reactive Environments
[Tetsuhide Shimizu - Tokyo Metropolitan University]

Advanced Multifunctional Coatings (AMF)
Advanced Active and Inactive Cooling Technologies to improve life and lower cost of electronic components and EV Applications
[Wayne "Stanley" Ellis - Argonne National Laboratory]

Advanced Multifunctional Coatings (AMF)
Spectroscopic Ellipsometry Characterization of Optical Coatings
[Hoefnagels Jan - Northwestern University Chicago]

Advanced Multifunctional Coatings (AMF)
Hydrogenated Diamond-Like Carbon Thin Films Grown by a Beam Plasma Source
[Fabiola Arenas - Aymara Universidad]
[pre-recorded video presentation]

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

Advanced Multifunctional Coatings (AMF)
Advanced Multifunctional Coatings for Lithium-Ion Batteries: Fabrication and Performance
[Sun Liu/Shenlong Lu - Northeastern University China]

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.]

Characterizations, Testing, and Failure Analysis (C7)
Insitu Optical Pyrometer Emissivity Measurement for Thin Film Processing
[Tim Studer - Industrial Image]

Characterizations, Testing, and Failure Analysis (C7)
Emergent Superparticle Superconductivity in WTe2 with Silver Mixed Metallicities
[Do-Gam Sohn - Korea Research Institute of Standards and Science]

Characterizations, Testing, and Failure Analysis (C7)
Controlled Synthesis of 3D Ultra-Porous Tungsten Magnetic and Superconductive Films
[Zhong-Kai Chu - National University of Taiwan]

Characterizations, Testing, and Failure Analysis (C7)
Optical Characterization of the Growth of Ultra Thin Metal Films
[Oleg Zabeida - Polytechnique Montreal]

Coatings and Processes for Biomedical Applications (BP)
Estimating the Lifetime of the Antimicrobial Property of Silver Containing Thin Films Using Accelerated Environmental Parameters
[Hansel Disney - Nuvera University]

Coatings and Processes for Biomedical Applications (BP)
Electrically Reinstructed Titanium Electrodes with Integrated Antibacterial Functionality for Neuromodulation Implantable Devices
[Amit Pandya - Drexel University]

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

Tens Resolved Investigations on Ion Fraction, Ionization Degree, and Plasma Potential in Cathodic Arc Metal Plasma
[Ralf Bandorf - Fraunhofer IST]

HiPIMS (HP)
Through-Glass Via Metallization by Using HiPIMS Copper Layer
[Dongchan Shin - Hong Chin University]
SPONSORED STUDENT PRESENTATION

HiPIMS (HP)
Advanced HiPIMS Coatings Deposition Using High Performance Cutting Tools Field Forgiven Pilot Scheme
[Yahia Chen - Guangdong Huizheng nanotechnology]

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

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

20 minute refreshment break

Large Area (5/7)
Reliable Microfocusing of Liquid-Precursor/Liquid-Target Elbow-Jet Plasma Spray Ultrapyrolysis
[Gaseon Ding - Lightconversion Corp.]

Large Area (6/7)
Giving Large - Prediction and Optimization of Laser Thickness-Dependent Optical Properties of Dielectric Coatings
[Eric Vallabhan - Frauenhofer IOF]

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

Large Area (8/7)
Process Improvements for Large Area Deposition of TiO2 Thin Films on Flexible Substrates Using Roll-to-Roll Technology
[Mike Simmons - Intellisystem LLC]

Characterizations, Testing, and Failure Analysis (Invited)
New Developments in Spectroscopic Ellipsometry
[James Hilfiker - J.A. Woollam Co.]

Characterizations, Testing, and Failure Analysis (C7)
Advanced Characterization Techniques for Analysis of Alum [Matthew Linford - Brigham Young University]

Characterizations, Testing, and Failure Analysis (C7)
Contrast Enhancement Using Ultraviolet Light Imaging to Analyze 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 Fedko - 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
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: Materials for PVD processes
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-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 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 Protective Coatings on Inner Surface of Small Diameter Long Tubing
[Ivan Shchekotikhin - Starfire Industries]

Advanced Multifunctional Coatings (AMF)
Multilayer Metal Anodes with Anti-Vacuum Deposited PET+Cu Composite Current Collectors
[Kaisheng Jia - Northeastern University China]

Organic and Perovskite Electronics (Invited)
Achieving Compatibility Tunability in Perovskite Thin Films by Physical Vapor Deposition
[Guy Patat - King's College London]

Process Monitoring, Control, and Automation (PC)
From Legacy to Industry 4.0: Retrofitting Vacuum Coaters with Edge Control Monitoring
[Michael Hofmann - SCANLOG GmbH]

Process Monitoring, Control, and Automation (Invited)
Transformative Process Control Strategies for Advanced Chamber Fleets
[Pedro Reyes Santiago - VAT Vakuumventile AG]

HiPIMS (HP)
Industrial HiPIMS - Process Challenges, Tools and Innovations
[Michael Stolzhein - Hauzer]

HiPIMS (HP)
HI MPULS MFs Capacitively Coupled Plasma Etching Following Laser Modification to Form Through-Glass Via
[Tsung-Hao Chen - Feng Chia University]

HiPIMS (HP)
HiPULSE™ + Proprietary Magnetron Sputtering Coatings on Inner Surface of Small Diameter Long Tubing
[Ivan Shchekotikhin - Starfire Industries]

This Film Contributions for the Hydrogen Economy (PHE)
Hydrogen Born or Burn? Opportunities and Challenges in Coating Solutions for Industrial Scale-Up
[Nazim Naginen - Schaeffler Technologies]

This Film Contributions for the Hydrogen Economy (PHE)
Replacing Tribiums by Tribiums? Best Solutions for PEM Electrolyzers
[Ralf Bandorf - Fraunhofer IST]

20 minute refreshment break

20 minute refreshment break

Exhibitor Innovator Showcase (EIS)
Casting News From DIP Technical Products
[Marcel Kempe - DIP Technical Products]

Exhibitor Innovator Showcase (EIS)
Improving Throughput and Film Quality with the Modern, Efficient Mass Flow Controller Technology for Industrial Coaters
[Gerrard Langlois - Edwards Vacuum]

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

Exhibitor Innovator Showcase (EIS)
Dual Output, Half Bio Footprint, Full Control in Sealless Reactive Sputtering Power Supply Technology Enabling Stable Coating with PVx and Advanced Fire Control for Faster Reporting and Lower CAPEX
[Rudy Krzysztof - TRUMPF Huettinger]

Exhibitor Innovator Showcase (EIS)
Integrated Mechanical Cleaning and Preparation Solutions for Vacuum Coatings
[Parth Kotak - Anton Paar USA Inc.]

Exhibitor Innovator Showcase (EIS)
Custom Vacuum Coating Systems, Vacuum Coater Refurbishment and Contract R&D of DP Plasma
[Frank Papa - DP 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)
PM Automated HiPIMS on a Single Target: Discharge Stability and Process Control Using Pulse-Resolved Spectroscopy
[Thomas Schalkx - PLASUS GmbH]

Process Monitoring, Control, and Automation (PC)
Toward Intelligent In-Situ Metrology for Perovskite Processing: A Review of Reflectance and Photoluminescence Based Process Insights
[Rudy Hakimard - LayTechS]

This Film Contributions for the Hydrogen Economy (PHE)
PVD Coatings for the Hydrogen economy - Applications, Testing Methods and Challenges for Industrial Production
[Herbert Gabriel - PVT Plasma and Vacuum Technik GmbH]
[pre-recorded video presentation]

This Film Contributions for the Hydrogen Economy (PHE)
Correlating Deposition Parameters with Structure and Sensing Performances in Pd Thin Film Hydrogen Sensors
[Ruben Del Hierro Jimenez - Universidad Autónoma de Madrid]
SPONSORED STUDENT PRESENTATION

This Film Contributions for the Hydrogen Economy (PHE)
Zero-Gap Cell Water Electrolyzers with Structured Electrodes: Layered Thin Films for Repeating Unit 3D Bipolar Plates in PEM Fuel Cells Using HiPIMS/P + Positive Etch™
[Brian Jurczyk - Starfire Industries LLC]

10:00 AM Exhibitor B2B Coffee Hour

11:00 AM Exhibit Hall Opens

2:30 - 4:30 PM Poster Session

POSTER (P1): Fabrication and Characterization of Molybdenum-Oxide Thin Films for Solar Energy Applications [Bassel Abdel-Samad - Université de Moncton]

POSTER (P2): Atmospheric Plasma Beam Printing of the Silicon Anodes and Lamination of Carbon Nanofiber Cathodes for Li-Ion (Na+) Batteries - Nanocoating Plasma Systems]

POSTER (P3): Front Contact (TCO/Ag/Ni) Engineering for High-Efficiency CdTe-based Solar Cells on Ultra-Thin Cover Glass [Aesha Patel - University of Toledo] SPONSORED STUDENT PRESENTATION

POSTER (P4): Thick Metal Coatings on Glass Microsphères for Advanced Manufacturing [Rita Ghantous - Jan. Klarma National Laboratory]

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

POSTER (P6): Study on the Bond Strength of Flexible Film Substrates [Ron Liu - Northeastern University China]

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

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

Exhibit Hall Closes: 6:00 PM

Wednesday (April 29, 2026)

TAC Breakfast Meetings

(1) Large Area Coatings TWG (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) Photonically Induced Transformations of Thin Films and Surfaces 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 Crystal Engineered 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 - Sonoco Ltd]

Exhibitor Innovator Showcase (EIS)
Industrial-Ready HiPIMS: 25 Years of Power-Supply Evolution Even Demanding Applications Made Simple
[Anna Mikonova-Dinesen - TRUMPF Huettinger Sp. z o.o.]

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

Emerging and Transitional Technologies (ET)
Digital Twins and Machine Learning for Ultra-Precise Optical Coatings
[Ken Tarbox - Anthony Coatings]

Emerging and Transitional Technologies (ET)
Industrial Production of Superconducting Niobium Thin Films Using Plasma Enhanced Atomic Layer Deposition
[Anna Mikonova-Dinesen - TRUMPF Huettinger Sp. z o.o.]

Emerging and Transitional Technologies (ET)
Industrial Scale-Up of Reactive Magnetron Sputtering of Nitride Overstoichiometric Coatings Using Optical Emission Spectroscopy Closed-Loop Control
[Tilmann Hannemann Rodrigues - Tekvision]

Process Monitoring, Control, and Automation (PC)
Real-Time Contaminant Particle Monitoring During Thin Film Deposition Processes Using Laser Scattering Technology
[Sylvain LeCuziat - SEM]

Process Monitoring, Control, and Automation (PC)
Process Monitoring, Control, and Automation (PC)
Industrial Scale-Up of Reactive Magnetron Sputtering of Nitride Overstoichiometric Coatings Using Optical Emission Spectroscopy Closed-Loop Control
[Tilmann Hannemann Rodrigues - Tekvision]

Optical (OP)
Active Nanostructured Optical Coatings for Energy, Exposure and Sensing
[Ludovic Martinez - Polytechnique Montreal]

Optical (OP)
Tunable Broadband Optical Properties of Reactive Magnetron Sputtered Nickel Oxide Films Using Oxygen Partial Pressure Control
[Liming Sun - Air Force Research Laboratory]

Optical (OP)
Ultra-Low Coating Thermal Noise Reflectors: The Case of Hydrogenated Amorphous Silicon for Gravitational Wave Detectors
[Alexandre Lussier - Université de Montréal]
SPONSORED STUDENT PRESENTATION

Large Area Advanced Packaging and Integrated Photonics (LAP)
Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling Highly Conductive Metallization and Low Temperature Deposition Processes
[Anna Mikonova-Dinesen - TRUMPF Huettinger Sp. z o.o.]

Large Area Advanced Packaging and Integrated Photonics (LAP)
A Scalable HiPIMS Process for Low-Stress Ultra-Thick Copper Layers
[Yifan Shan - TRUMPF Huettinger GmbH + Co. KG]

Large Area Advanced Packaging and Integrated Photonics (LAP)
Open Source Roll-to-Roll Platform for Photonic Beam Process Modeling Using PICsim
[Ante Mitica - Jackpine - Synthetic Photon Aerospace Corp.]

Large Area Advanced Packaging and Integrated Photonics (LAP)
Expanding HiPIMS Applications for Semiconductor Manufacturing Enabling Highly Conductive Metallization and Low Temperature Deposition Processes
[Anna Mikonova-Dinesen - TRUMPF Huettinger Sp. z o.o.]

Large Area Advanced Packaging and Integrated Photonics (LAP)
Spatial Thin Film Lithium Niobate For Scalable Photonic Integrated Circuits
[Chaoyu "Pete" Sugiarto - Omnicor Co. Ltd.]

Large Area Advanced Packaging and Integrated Photonics (LAP)
Optical Engines and Thin Film Nanophotonics
[Mohamed Elbakouch - University of Arizona]
[pre-recorded video presentation]

20 minute refreshment break

Exhibitor Innovator Showcase (EIS)
Surgeon and Molybdenum Sputtering Targets for Semiconductor and Flat Panel Display Manufacturing
[Christian Lotze - Plansee SE]

Exhibitor Innovator Showcase (EIS)
A Modular Platform Approach for Advanced Carbon Coatings: Extending Performance and Flexibility with the Oerlikon DLC Platform
[Bruno Dzeworski - Oerlikon Balzers Coating USA]

Exhibitor Innovator Showcase (EIS)
X-ray Diffraction and X-ray Reflectivity for Thin Film Phase Identification - Recipes for Fast Phase Identification and Characterization
[Lawrence Anderson - Malvern]

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

Process Monitoring, Control, and Automation (PC)
Beyond Just Gauges: Smart Process Monitoring Improves Vacuum Sensing for Modern Coating Systems
[Caspar Christiansen - Sensor A/S]

Process Monitoring, Control, and Automation (PC)
In-Vacuum Color Monitoring to Improve Process Repeatability in Optical Coating Production
[Jan-Peter Schaefer - PLASUS GmbH]

Process Monitoring, Control, and Automation (PC)
Multi-Channel Optical Emission Spectroscopy for Process Control
[Ralf Sperling - Bühler Alzenau GmbH Leybold]

Optical (OP)
Photoadhesive, Photochromic Coatings Made for Legacy Magnetron/Ion/Evaporated Optical Coatings
[Chuan-Jen Tang - Tang Chia University]

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

Optical (OP)
Harnessing Nd:Mg0Ga0 Plasma Dynamics in AR-Magnetrons HiPIMS for Dense and Low-Absorption Optical Films
[Rajesh Sonawan - Aveksa 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 Huicheng Vacuum Technology Co., Ltd.]

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 (Iondonal) / Anas Ghadiane (Avalovet)
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

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10 minute passing break

Keynote (LBCC Promenade 104B)
Plasma Technologies for Precision and Large-Scale Surface Engineering
(Elisabeth von Hauff - Fraunhofer-FEP)

10 minute passing break

Electron Beam Processes (EB)
High Rate Plasma-Activated EB PVD for Graphite-Filled Composite Bipolar Plates
[Stefan Sauger - Fraunhofer-FEP]

Electron Beam Processes (Invited)
Vacuum Electron Beam Technology for Advanced Coatings Investments in Equipment and Process Technology for Wire and Strip
[Philip Bergel - VON ARDENNE GmbH]

Electron Beam Processes (EB)
Open Source Roll-to-Roll Platform for Photonic Beam Process Modeling Using PICsim
[Ante Mitica - Jackpine - Synthetic Photon Aerospace Corp.]

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

Atomic Layer Processing (AL)
Elevating Conformal Coatings Using Atmospheric Pressure Chemical Vapor Deposition (APCVD)
[Hansel Disney - Nuvera University]

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

Optical (OP)
Linear Ion Beam Assisted Deposition Sputtering
[Ewald Bevorzugt - HOPPE, Inc.]

Optical (OP)
Revolutionizing Optical Coatings with Ultra-Higher Deposition Rates and Plasma Stability with Pulsed Magnetron Sputtering
[Tilo Sloan - TRUMPF Huettinger GmbH + Co. KG]

Optical (OP)
State of the Art of Ion Beam Sputtering Deposition and Its Advantages Compared to Other Applications
[Laurent Pinard - Laboratoire des Materiaux Avances - CNRS]

Overflow (OP)

Protective, Tribological, and Decorative Coatings (TT)
Arc and Sputter Coatings for Plastic Injection Molding
[Jan-Hauke Van - Korea Institute of Materials Science (KIMS)]

Protective, Tribological, and Decorative Coatings (TT)
Surface Engineering Institute (SEI), HiPIMS Sputtering
[Jim Hoover - Surface Engineering Institute (SEI)]

20 minute refreshment break

Overflow (OP)

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

Overflow (OP)

Digital Transformation (DT)
Predicting Film Homogeneity in Large Area Sputtering: DFU-Accelerated Multi Spectra Transport and Energy Distribution Analysis
[Patrick Morse - Arizona Thin Film Research LLC]

Digital Transformation (DT)
Particle-Based Simulation of Reactive Magnetron Sputtering in an Industrial Glass Coating Chamber Using the Open Source PIC - MCC/DSMC Solver PICsim
[Paul Maximilian - Jackpine - numerical plasma dynamics GmbH]

Digital Transformation (Invited)
Navigating Digital Transformation in an Established Industrial Environment: Data, Simulation, and the Strategic Road Ahead
[Alexander Ebner - Hauch Pulse GmbH]

Optical (OP)
Passive and Active Structural Color Control of the Metallic-Dielectric Thin Film Structures
[Michal Nowicki - Warsaw University of Technology]
SPONSORED STUDENT PRESENTATION

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

Optical (OP)
Optical Measurements of Large-Aperture Diamond Coatings on Silicon Wafers: Effect of Substrate Thickness Variation and Inhomogeneity Correction
[Volker Sittinger - Fraunhofer IOTC]

Protective, Tribological, and Decorative Coatings (TT)
Protective PVD Coatings - From Film Field to the Future
[Martin Engelb - Iondonal Betriebsstätte N.V.]

40 minute Lunch break

Photonically Induced Transformations of Thin Films (Photon)
Optimization of CO2N Vertical-Cavities Silicon Etching for Improving Light-Matter Interaction in Mid-Wave Infrared Photodetectors
[Sumit Gunawan - University of Oklahoma]

Photonically Induced Transformations of Thin Films (Invited)
Process-Based Programming of Spatially Varying Nanoscale Properties Using Ultrafast Laser Pulses and Photochemistry
[Alexander Rudenko - University of Pittsburgh]

Photonically Induced Transformations of Thin Films (Invited)
Controlling Photodamaging in Rare-Earth Doughnuts Thin Films via Photonic Annealing Processes
[Martino Ambrosio - Institute of Solid State Physics, University of Latvia]

Overflow (OP)

Sensors (SE)
Versatile Electronic Sensor Platform Fabricated Using Roll-to-Roll PLD and Laser Patterning Processes
[Chris Muratore - University of Dayton]

Sensors (SE)
Challenges and Opportunities of Copper Nitride Nanostructures Sensors Fabricated by Photochemistry
[Ashwin Kumar Kumar - University of Pittsburgh]
SPONSORED STUDENT PRESENTATION

Sensors (SE)
Epitaxial Growth from a Thermal Experiment: Highly Active Arsenic Sensors Made by Photochemistry
[Kuldil Prasain - University of Toledo]
SPONSORED STUDENT PRESENTATION

Optical (OP)
Thickness Distribution Modeling and Mask Optimization for Freeform Sub-Wavelength Coating Processes
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Optical Measurements of Large-Aperture Diamond Coatings on Silicon Wafers: Effect of Substrate Thickness Variation and Inhomogeneity Correction
[Volker Sittinger - Fraunhofer IOTC]

Protective, Tribological, and Decorative Coatings (TT)
Tribological Properties of Tungsten Disulfide Coatings for Mass Tools
[Christoph Schiffers - CemeCon AG]

Protective, Tribological, and Decorative Coatings (TT)
A Novel Method to Low Friction/Cathodic Arc Evaporated Coatings
[Garrett Monaghan - Sonoco Ltd]

Protective, Tribological, and Decorative Coatings (TT)
Influence of Replacer Doping on the Microstructure and Wear of TiAlCrN Coatings at High Temperatures
[Dominic Stiefel - Korea Institute of Materials Science (KIMS)]

Protective, Tribological, and Decorative Coatings (TT)
TiN Based PVD Multilayer Coatings Deposited by Cathodic Arc and Sputter Technology for Plastic Injection Molding
[Volker Zauner - Radio University of Pressure]

20 minute refreshment break

Photonically Induced Transformations of Thin Films (Invited)
Additive Nanomanufacturing and Photonic Processing of Functional Devices
[Mohamed Mahjouri Samani - Auburn University]

Photonically Induced Transformations of Thin Films (Photon)
Laser Processing of Thin Films for High-Throughput Materials Discovery and Development
[Chris Muratore - University of Dayton]

Photonically Induced Transformations of Thin