

# ICMCTF 2026 Program Key

<b>CM</b>	Advanced Characterization, Modelling and Data Science for Coatings and Thin Films
<b>EX</b>	Exhibitors Keynote Lecture
<b>HL</b>	Awards Ceremony and Honorary Lecture
<b>IA</b>	Surface Engineering - Applied Research and Industrial Applications
<b>IUVSTA</b>	International Union for Vacuum Science, Technique and Applications
<b>KYL</b>	Keynote Lectures
<b>MA</b>	Protective and High-temperature Coatings
<b>MB</b>	Functional Thin Films and Surfaces
<b>MC</b>	Tribology and Mechanics of Coatings and Surfaces
<b>MD</b>	Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications
<b>PL</b>	Plenary Lecture
<b>PP</b>	Plasma and Vapor Deposition Processes
<b>TS</b>	Topical Symposium on Sustainable Surface Engineering
	<b>TS1</b> Coatings for Batteries and Hydrogen Applications
	<b>TS2</b> Coatings and Surfaces for Renewable Energy Technology
	<b>TS3</b> Circular Strategies for Surface Engineering

# ICMCTF 2026 Program Overview

Room /Time	Golden State	Palm 1-2	Palm 3-4	Palm 5-6	Town & Country A	Town & Country B	Town & Country C	Town & Country D
MoPL					PL-MoM: Plenary Lecture			
MoM		MD1-1-MoM: Coat & Surf for Med Dev: Mech, Corr, Tribo, & Surf Processing I	MA1-1-MoM: Coatings for High Temps & Harsh Envir Applications I	MB3-MoM: Low-dimensional Materials and Structures	PP1-1-MoM: PVD Coatings and Technologies I	TS1-1-MoM: Coatings for Batteries and Hydrogen Applications I		
MoKYL					KYL1-MoKYL: Keynote Lecture I			
MoA			MA1-2-MoA: Coatings for High Temps & Harsh Envir Applications II	MB2-1-MoA: TF for Emerging Elect & Quantum Photonic Dev I	PP1-2-MoA: PVD Coatings and Technologies II	TS1-2-MoA: Coatings for Batteries and Hydrogen Applications II	MA4-1-MoA: Boron-containing Coatings I	CM3-1-MoA: Data-Driven TF Design: Hi-Through Exper, Simul, & ML I
TuM		CM1-1-TuM: Spatially-res and in situ Char of TF, Coating & Eng Surfaces I	MA3-1-TuM: High Entropy & Otr Multi-princ-element Materials I	MB2-2-TuM: TF for Emerging Elect & Quantum Phot Devices II		MD1-2-TuM: Coat & Surf for Med Dev: Mech, Corr, Tribo, & Surf Proc II	MC3-1-TuM: Tribology of Coatings & Surf for Ind Applications I	MA4-2-TuM: Boron-containing Coatings II
TuEx					EX-TuM: Exhibitors Keynote Lecture			
TuA		CM1-2-TuA: Spatially-resolved & in situ Char of TF, Coating and Eng Surfaces I	MA3-2-TuA: High Entropy & Otr Multi-princ-element Materials II	MC2-1-TuA: Mechanical Properties and Adhesion	MA2-1-TuA: Hard and Nanostructured Coatings I	MD2-1-TuA: Coatings & Sens Health, Food & Agric: Antibac, Bio, & Flexible Interfaces I	TS3-TuA: Circular Strategies for Surf Engineering	
WeM		IA2-1-WeM: Surf Mod of Comp in Auto, Aero & Manuf Apps I	MA3-3-WeM: High Entropy & Otr Multi-princ-elem Matls III	IUVSTA-WeM: IUVSTA Special Session	MA2-2-WeM: Hard and Nanostructured Coatings II	PP2-1-WeM: HIPIMS, Pulsed Plasmas, & Ener Deposition I	CM3-2-WeM: Data-Driven TF Design: High-Through Exper, Simul & ML II	
WeKYL					KYL2-WeKYL: Keynote Lecture II			
WeA		MB1-WeA: Optical Materials and Thin Films		TS2-1-WeA: Coatings & Surf for Renew Energy Tech I		PP2-2-WeA: HIPIMS, Pulsed Plasmas, & Ener Deposition II	MC3-2-WeA: Tribology of Coatings & Surf for Ind Apps II	
WeHL					HL-WeHL: Bunshah Award Honorary Lecture			
ThM		IA3-ThM: Innov Surf Eng for Adv Cutting & Forming Tool Apps	MB2-3-ThM: TF for Emerging Elec & Quantum Phot Devices III			MD2-2-ThM: Coat & Sensors for Health, Food & Agr: Antibact, Bio, & Flex Int II	CM2-1-ThM: Adv Mech-Phys Testing of Surf, TF, Coat & Small Volumes I	TS2-2-ThM: Coatings & Surf for Renewable Energy Tech II
ThKYL						KYL3-ThKYL: Keynote Lecture III		
ThA		PP4-ThA: Greybox Models for Wear Prediction	MC1-1-ThA: Friction, Wear, Lub Effects, & Modeling I	ASED Executive Session		PP3-ThA: CVD, ALD, and Laser-based Dep & Microfab Tech	CM3-3-ThA: Data-Driven TF Des: Hi-Through Exper, Simul, & ML III	IA2-2-ThA: Surface Mod of Comp in Auto, Aero & Manuf Applications II
ThP					POSTER SESSIONS			
FrM		PP2-3-FrM: HiPIMS, Pulsed Plasmas, & Energ Dep III	MC1-2-FrM: Friction, Wear, Lub Effects, & Modeling II			MC3-3-FrM: Trib of Coatings and Surf for Indl Applications III		IA1-FrM: Adv in App Driven Res & Hybrid Syst, Proc, & Coatings

# Monday Morning, April 20, 2026

**Plenary Lecture**  
**Room Town & Country A - Session PL-MoM**  
**Plenary Lecture**  
**Moderator:**  
**Sandra E. Rodil**, Universidad Nacional Autónoma de México

8:00am **PL-MoM-1** Welcome and Opening Remarks

8:20am **INVITED: PL-MoM-2** Nano-Engineered Materials: Heterostructures and Composites,  
**Pulickel M. Ajayan**, Rice University, USA

8:40am

9:00am

# Monday Morning, April 20, 2026

<b>Functional Thin Films and Surfaces</b> <b>Room Palm 5-6 - Session MB3-MoM</b> <b>Low-dimensional Materials and Structures</b> <b>Moderators:</b> <b>Kostas Sarakinos, University of Helsinki, Finland</b>		<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country A - Session PP1-1-MoM</b> <b>PVD Coatings and Technologies I</b> <b>Moderator:</b> <b>Christian Kalscheuer, IOT, RWTH Aachen, Germany</b>	
10:00am	<b>INVITED: MB3-MoM-1</b> Shape and Symmetry Engineering in Transition Metal Dichalcogenide Nanoribbons for Light Harvesting, <i>Ganesh Ghimire, Stela Canulescu</i> , Technical University of Denmark, Denmark	10:00am	<b>PP1-1-MoM-1</b> Optimizing Sputter-Deposited MoS <sub>2</sub> Coatings: Insights from Monte Carlo Simulations and In-Situ Plasma Diagnostics, <i>Alexander Mings (Student), Steven Larson, Kyle Doorman, Tomas Babuska, John Curry, Remi Dingreville, David Adams</i> , Sandia National Laboratories, USA
10:20am		10:20am	<b>PP1-1-MoM-2</b> HiPIMS and Digitalization: Increasing Efficiency in Machining, <i>Stephan Bolz, Biljana Mesic, Oliver Lemmer, Christoph Feig</i> , CemeCon AG, Germany
10:40am	<b>INVITED: MB3-MoM-3</b> Discovery of Goldene Comprising Single-atom Layer Gold; Prospects for Novel Noble Metallenes, <i>Lars Hultman</i> , Linköping University, IFM, Thin Film Physics Division, Sweden	10:40am	<b>INVITED: PP1-1-MoM-3</b> From Poisoned Targets to Healthy Models: The Quest for Parameters, <i>Diederik Depla</i> , Ghent University, Belgium
11:00am		11:00am	
11:20am	<b>MB3-MoM-5</b> Nanoporous TiO <sub>2</sub> Thin Films by Helium-Assisted Sputtering for Noble-Metal-Free Hydrogen Sensing, <i>Stanislav Haviar, Akash Kumar, Tomáš Kozák, Petr Zeman</i> , University of West Bohemia in Pilsen, Czechia	11:20am	<b>PP1-1-MoM-5</b> Advanced YSZ Coatings Deposited by Magnetron Sputtering for High-Temperature Applications, <i>Imene Toumi (Student)</i> , Université de Technologie de Troyes, France; <i>Sofiane Achache</i> , Université de technologie de Troyes, France; <i>Akram Alhussein, Benoit Panicaud</i> , Université de Technologie de Troyes, France
11:40am		11:40am	
12:00pm		12:00pm	

# Monday Morning, April 20, 2026

	<p><b>Protective and High-temperature Coatings</b>  <b>Room Palm 3-4 - Session MA1-1-MoM</b>  <b>Coatings for High Temperatures and Harsh Environment Applications I</b>  <b>Moderators:</b>  <b>Sabine Faulhaber</b>, University of California, San Diego  <b>Francisco Javier Perez Trujillo</b>, Universidad Complutense de Madrid, Spain</p>	<p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b>  <b>Room Palm 1-2 - Session MD1-1-MoM</b>  <b>Coatings and Surfaces for Medical Devices: Mechanical, Corrosion, Tribocorrosion, and Surface Processing I</b>  <b>Moderator:</b>  <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France,  <b>Mathew T. Mathew</b>, University of Illinois College of Medicine at Rockford and Rush University Medical Center</p>
10:00am	<p><b>MA1-1-MoM-1</b> Improving the Lifetime and Efficiency of Next Gen Aircraft Turbine Engines with PVD, <b>Thibault Maerten</b>, Oerlikon Balzers Coating AG, France</p>	<p><b>INVITED: MD1-1-MoM-1</b> NaOH Etching and Oxygen Plasma Treatments on Surface Characteristics and Their Potential to Activate Micro-Arc Oxidized TiO<sub>2</sub> Biomedical Coatings,  <b>Paulo Noronha Lisboa-Filho</b>, UNESP, Brazil</p>
10:20am	<p><b>MA1-1-MoM-2 Graduate Student Award Finalist Talk: Mechanisms of Solid Particle Erosion in Aerospace Materials and Protective Coatings</b>, <b>Stephen Brown (Student)</b><sup>1</sup>, <i>Etienne Bousser, Benjamin Milan-Ramos</i>, Polytechnique Montréal, Canada; <i>Juan Manuel Mendez</i>, MDS Coating Technologies, Canada; <i>Marjorie Cavarroc-Weimer</i>, Safran Tech, France; <i>Ludvik Martinu, Jolanta Ewa Klemberg-Sapieha</i>, Polytechnique Montréal, Canada</p>	
10:40am	<p><b>INVITED: MA1-1-MoM-3</b> Microstructure and Oxidation of PVD Coatings on TiAl and Ni Superalloys for High-Temperature Applications, <b>Radosław Swadźba</b>, Łukasiewicz Research Network - Upperciesian Institute of Technology, Poland</p>	<p><b>MD1-1-MoM-3</b> Influence of Microstructures on the Corrosion Behavior of Cobalt-Chromium Alloys Under Different Ortho Joint Conditions, <b>Mathew T. Mathew</b>, <i>Avirup Sinha, Sujoy Ghosh, Maansi Thapa, Remya Ramachandran, Nicki Ta</i>, University of Illinois at Chicago, USA</p>
11:00am		<p><b>INVITED: MD1-1-MoM-4</b> Synergistic Fretting–Corrosion Mechanisms in DLC Coatings, <b>Tomasz Liskiewicz</b>, Manchester Metropolitan University, UK; <i>Samuel McMaster</i>, Anglia Ruskin University, UK; <i>Michael Bryant</i>, University of Birmingham, UK; <i>Thawhid Khan</i>, University of Sheffield, UK; <i>Yu Yan</i>, University of Science and Technology Beijing, China; <i>Ben Beake</i>, Micro Materials Ltd, UK</p>
11:20am	<p><b>MA1-1-MoM-5</b> Predictive Analytics of Aluminate Diffusion Coatings Using Machine Learning to Forecast Their Aging and Service Life, <b>Vladislav Kolarik</b>, <i>Maria del Mar Juez Lorenzo</i>, Fraunhofer Institute for Chemical Technology ICT, Germany; <i>Pavel Praks, Renata Praksová</i>, IT4Innovations National Supercomputing Center, VSB - Technical University of Ostrava, Czechia</p>	
11:40am	<p><b>MA1-1-MoM-6</b> Tailored Formation of Intermetallic Phases in Nanolayered Metallic Systems, <b>Vincent Ott</b>, <i>Sven Ulrich, Michael Stüber</i>, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany</p>	<p><b>MD1-1-MoM-6</b> Mechanisms of Fretting Corrosion in Titanium-based Biomedical Modular Implant Interfaces, <b>Avirup Sinha (Student)</b>, University of Illinois - Chicago, USA</p>
12:00pm		

<sup>1</sup> Graduate Student Award Finalist

# Monday Morning, April 20, 2026

<p><b>Topical Symposium on Sustainable Surface Engineering</b>  <b>Room Town &amp; Country B - Session TS1-1-MoM</b>  <b>Coatings for Batteries and Hydrogen Applications I</b>  <b>Moderators: Chen-Hao Wang</b>, National Taiwan University of Science and Technology, Taiwan,  <b>Martin Welters</b>, KCS Europe GmbH, Germany,  <b>Fan-Bean Wu</b>, National United University, Taiwan</p>		
10:00am		
10:20am		
10:40am	<p><b>INVITED: TS1-1-MoM-3</b> Hydrogen Technology – Which Role Play Thin Films on the Performance and Sustainability?,  <b>Christina Scheu</b>, Max-Planck-Institut for Sustainable Materials, Germany</p>	
11:00am		
11:20am	<p><b>TS1-1-MoM-5</b> PVD-synthesized Nitrides as Hydrogen Barrier Coatings,  <b>Phillip Rückeshäuser (Student)</b>, TU Wien, Austria; <b>Szilard Kolozsvari</b>, <b>Peter Polcik</b>, Plansee Composite Materials GmbH, Germany; <b>Timea Stelzig</b>, Oerlikon AM Europe GmbH, Germany; <b>Konrad Fadenberger</b>, Oerlikon Balzers Coating Germany GmbH, Germany; <b>Klaus Boebel</b>, Oerlikon Balzers, Liechtenstein; <b>Tomasz Wojcik</b>, <b>Helmut Riedl</b>, TU Wien, Austria</p>	
11:40am	<p><b>TS1-1-MoM-6</b> Low-Temperature Sintering of <math>\text{Li}_7\text{La}_3\text{Zr}_2\text{O}_{12}</math> (LLZO) Electrolyte Coatings by the Sol Impregnation Method for All Solid-State Lithium-Ion Batteries, <b>Yen-Yu Chen</b>, <b>Guang-Yi Yao</b>, <b>Shao-Chien Tai</b>, National Pingtung University of Science and Technology, Taiwan</p>	
12:00pm	<p><b>TS1-1-MoM-7 Graduate Student Award Finalist Talk:</b> Nitride and Amorphous/Crystalline Multilayers as Hydrogen Permeation Barriers, <b>Balint Istvan Hajas (Student)</b><sup>1</sup>, TU Wien, Institute of Materials Science and Technology, Austria; <b>Vincenc Nemanič</b>, <b>Marko Žumer</b>, <b>Ardita Kurtishaj Hamzaj</b>, Jožef Stefan Institute, Slovenia; <b>Alexander Kirnbauer</b>, <b>Tomasz Wojcik</b>, TU Wien, Institute of Materials Science and Technology, Austria; <b>Szilard Kolozsvari</b>, Plansee Composite Materials GmbH, Germany; <b>Paul Heinz Mayrhofer</b>, TU Wien, Institute of Materials Science and Technology, Austria</p>	

<sup>1</sup> Graduate Student Award Finalist

# Monday Afternoon, April 20, 2026

**Keynote Lectures**

**Room Town & Country A - Session KYL1-MoKYL**

**Keynote Lecture I**

**Moderator:**

**Sandra E. Rodil**, Universidad Nacional Autónoma de México

1:00pm

**INVITED: KYL1-MoKYL-1** HiPIMS with Cathode Reversal -- Physics and Applications,  
**David N. Ruzic**, *Tag Choi*, *Nicholas Connolly*, University of Illinois at Urbana-Champaign, USA

1:20pm

# Monday Afternoon, April 20, 2026

<b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b> <b>Room Town &amp; Country D - Session CM3-1-MoA</b> <b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning I</b> <b>Moderators: Kevin Kaufmann, Oerlikon, USA,</b> <b>Po-Liang Liu, National Chung Hsing Univ., Taiwan,</b> <b>Sebastian Siol, Empa, Switzerland</b>		<b>Functional Thin Films and Surfaces</b> <b>Room Palm 5-6 - Session MB2-1-MoA</b> <b>Thin Films for Emerging Electronic and Quantum Photonic Devices I</b> <b>Moderators:</b> <b>Shirly Espinoza, ELI Beamlines, ELI ERIC, Czechia,</b> <b>Jaroslav Vlcek, University of West Bohemia, Czechia</b>	
1:40pm	<b>INVITED: CM3-1-MoA-1</b> Predicting Outcomes of Thin-Film Synthesis from First Principles, <i>Vladan Stevanovic</i> , Colorado School of Mines, USA	<b>INVITED: MB2-1-MoA-1</b> AlScN Thin Films and Heterostructures for High Temperature Non-volatile Memory, <i>Nicholas Glavin</i> , Air Force Research Laboratory, Materials and Manufacturing Directorate, USA	
2:00pm		<b>MB2-1-MoA-2</b> Optical and Electrical Properties of Nitrogen-doped p-type Cu <sub>2</sub> O Thin Films Prepared by Reactive HiPIMS, <i>Jan Koloros (Student)</i> , <i>Jiri Rezek, Pavel Baroch</i> , University of West Bohemia in Pilsen, Czechia	
2:20pm	<b>CM3-1-MoA-3</b> A Refined Toolbox for Predicting Phase Formation in PVD Thin Films, <i>Christian Gutschka (Student)</i> , TU Wien, Austria; <i>David Holec</i> , Montanuniversität Leoben, Austria; <i>Jochen Schneider</i> , RWTH Aachen University, Germany; <i>Helmut Riedl-Tragenreif</i> , TU Wien, Austria	<b>INVITED: MB2-1-MoA-3</b> Fabrication and Manipulation of Weakly-Interacting Interfaces for Optoelectronic Applications, <i>Kostas Sarakinos</i> , University of Helsinki, Finland	
2:40pm	<b>INVITED: CM3-1-MoA-4 Bill Sproul Awardee Honorary ICMCTF Lecture:</b> Pathways for the Preparation of Functional Coatings by Multiscale Modelling, <i>Jiri Houska</i> <sup>1</sup> , University of West Bohemia, Czechia		
3:00pm		<b>MB2-1-MoA-5</b> Investigation of High-temperature Morphology and Electrical Performance of YZr-alloyed Amorphous Al <sub>2</sub> O <sub>3</sub> Thin Films, <i>Norma Salvadores Farran (Student)</i> , <i>Florentine Scholz, Tomasz Wojcik</i> , TU Wien, Austria; <i>Astrid Gies, Jürgen Ramm, Klaus Böbel</i> , Oerlikon Balzers, Liechtenstein; <i>Szilard Kolozsvári, Peter Polcik</i> , Plansee Composite Materials, Austria; <i>Tobias Huber, Jürgen Fleig, Helmut Riedl</i> , TU Wien, Austria	
3:20pm	<b>INVITED: CM3-1-MoA-6</b> HADB Database: From Data Generation to AI-Supported Predictions of Properties of Hard-Coating Alloys, <i>Igor Abrikosov, Sheuly Ghosh, Lalith Kumar Gurram, Jonatan Wästlund, Davide Sangiovanni, Ferenc Tasnádi</i> , Linköping University, IFM, Sweden		
3:40pm	<b>BREAK</b>	<b>BREAK</b>	
4:00pm	<b>INVITED: CM3-1-MoA-8</b> The Intersection of Energy, Entropy, and Exploration: Data-Driven Discovery of High-Entropy Materials, <i>Corey Oses</i> , Johns Hopkins University, USA	<b>INVITED: MB2-1-MoA-8</b> Ion-Beam Assisted Deposition of P-Type Oxide Semiconductor Thin Films in Room Temperature, <i>Tsung-Yu Huang</i> , Ming Chi University of Technology, Taiwan	
4:20pm			
4:40pm	<b>INVITED: CM3-1-MoA-10</b> Optimal Catalysts for Methane Pyrolysis by Atomistic Modelling of Molecule-Surface Interactions, <i>David Holec, Martin Matas</i> , Montanuniversität Leoben, Austria	<b>MB2-1-MoA-10</b> Influence of Bonding Temperature on Electromigration Suppression in Cu-Doped Ag Bumps, <i>Chien-Cheng Chiang (Student)</i> , <i>Peng-Hsiang Hsu, Fan-Yi Ouyang</i> , National Tsing Hua University, Taiwan	
5:00pm		<b>INVITED: MB2-1-MoA-11</b> Piezoelectric MEMS – from Advanced Material Systems to Novel Device Architectures, <i>Ulrich Schmid, Daniel Platz, Michael Schneider</i> , TU Wien, Austria	
5:20pm	<b>CM3-1-MoA-12</b> Multiscale Simulations from Precursors and Surface Chemistry to Thin Film Properties, <i>Fedor Goumans, Nestor Aguirre, Nicolas Onofrio</i> , Software for Chemistry & Materials, Netherlands		

<sup>1</sup> Bill Sproul Awardee Honorary ICMCTF Lecture

# Monday Afternoon, April 20, 2026

	<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country A - Session PP1-2-MoA</b> <b>PVD Coatings and Technologies II</b> <b>Moderators:</b> <b>Yen-Yu Chen</b> , National Pingtung University of Science and Technology, Taiwan, <b>Christian Kalscheuer</b> , IOT, RWTH Aachen, Germany	<b>Protective and High-temperature Coatings</b> <b>Room Palm 3-4 - Session MA1-2-MoA</b> <b>Coatings for High Temperatures and Harsh Environment Applications II</b> <b>Moderators: Vladislav Kolarik</b> , Fraunhofer Institute for Chemical Technology ICT, Germany, <b>Fernando Pedraza</b> , La Rochelle Univ., Laboratory LaSIE, France
1:40pm	<b>PP1-2-MoA-1</b> Spot Stabilization and Thin Film Synthesis Using an Industrial-Sized DC Vacuum Arc Source with Magnetic Steering and Zr-Cu/Zr-Ni Cathodes, <b>Igor Zhirkov</b> , <b>Andrejs Petruhins</b> , Linköping University, Sweden; <b>Philipp Immich</b> , IHI Hauzer Techno Coating B.V., Netherlands; <b>Szilard Kolozsvári</b> , <b>Peter Polcik</b> , PLANSEE Composite Materials GmbH, Germany; <b>Johanna Rosen</b> , Linköping University, Sweden	<b>MA1-2-MoA-1</b> Synergistic Effects of Ta and Si Alloying on the Longterm Oxidation and Hot Corrosion Resistance of Ti–Al–Ni Coatings, <b>Anna Hirle (Student)</b> , <b>Rainer Hahn</b> , <b>Oliver E. Hudak</b> , <b>Philip Kutrowatz</b> , <b>Tomasz Wojcik</b> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; <b>Szilard Kolozsvári</b> , <b>Peter Polcik</b> , Plansee Composite Materials GmbH, Lechbruck am See, Germany; <b>Anders.O Eriksson</b> , <b>Carmen Jerg</b> , <b>Klaus Boebel</b> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Balzers, Liechtenstein; <b>Helmut Riedl</b> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; Institute of Materials Science and Technology, TU Wien, Vienna, Austria
2:00pm	<b>PP1-2-MoA-2</b> Relationship Between Substrate Bias and Hydrogen Barrier Behavior of Pulsed DC ZrN Thin Films on Zircaloy-4 Deposited by RF Magnetron Sputtering, <b>Cheng-Han Wu</b> , <b>Kuan-Che Lan</b> , National Tsing Hua University, Taiwan	<b>MA1-2-MoA-2</b> Fabrication, Characterisation and Tribological Testing of Magnetron Sputtered Cr Coated Zr Alloy Cladding for Enhanced Accident Tolerance in Light Water Reactors, <b>Thais Netto</b> , Manchester Metropolitan University, Brazil; <b>Adele Evans</b> , Manchester Metropolitan University, UK; <b>David Goddard</b> , <b>Jack Cooper</b> , United Kingdom National Nuclear Laboratory, UK; <b>Peter Kelly</b> , Manchester Metropolitan University, UK
2:20pm	<b>PP1-2-MoA-3</b> Spherical Tungsten Coating as Inertial Fusion Targets, <b>Ali Basaran</b> , <b>Priya Raman</b> , <b>Pavel Lapa</b> , <b>Ruben Santana</b> , <b>Hongwei Xu</b> , <b>Wendi Sweet</b> , <b>Fred Elsner</b> , <b>carlos monton</b> , General Atomics, USA; <b>Sasikumar Palaniyappan</b> , <b>Eric Loomis</b> , Los Alamos National Laboratory, USA	<b>INVITED: MA1-2-MoA-3</b> Second Phase-Driven Surface Engineering Strategies for Corrosion and Oxidation Protection of Mg–8Al–4Ca Alloy, <b>Yueh-Lien Lee</b> , National Taiwan University, Taiwan
2:40pm	<b>PP1-2-MoA-4</b> Structural Transformation and Electrical Transport in Magnetron-Sputtered Pr-Ni-CoThin Films, <b>Bisheswar Acharya (Student)</b> , <b>You Qiang</b> , <b>Xavier Naranjo</b> , University of Idaho, USA; <b>Wenjuan Bian</b> , <b>Haixia Li</b> , Idaho National Laboratory, USA; <b>Hanping Ding</b> , The University of Oklahoma, USA; <b>Thomas Williams</b> , University of Idaho, USA	
3:00pm	<b>INVITED: PP1-2-MoA-5</b> From Anode-Assisted Magnetron Sputtering to Newer Developments Such as Inverted Fireball-Assisted Magnetron Sputtering, <b>Martin Fenker</b> , fem Research Institute, Germany	<b>MA1-2-MoA-5</b> Development of High-Temperature Ceramic Bond Coats for Environmental Barrier Coatings, <b>Rebekah Webster</b> , <b>Benjamin Kowalski</b> , <b>Bryan Harder</b> , NASA Glenn Research Center, USA
3:20pm		<b>MA1-2-MoA-6</b> Statistical Correlation between Microstructural Features and Process Forces in Conventional and Ultrasonic-Assisted Milling of Plasma Claddings, <b>Kai Treutler</b> , TU Clausthal, Germany; <b>Dirk Schröpfer</b> , Bundesanstalt für Materialforschung und -prüfung, Germany; <b>Maraïke Willeke</b> , TU Clausthal, Germany; <b>Thomas Kannengießer</b> , Bundesanstalt für Materialforschung und -prüfung, Germany; <b>Volker Wesling</b> , TU Clausthal, Germany
3:40pm	<b>BREAK</b>	<b>BREAK</b>
4:00pm	<b>INVITED: PP1-2-MoA-8</b> Particle, Momentum and Energy Fluxes in PVD Processes - Probe Diagnostics Are Still in Vogue?“, <b>Holger Kersten</b> , Kiel University, Germany	<b>MA1-2-MoA-8</b> Oxidation Resistance of Binary and Ternary Nitrides Obtained by Magnetron Sputtering, <b>Ludovic Mereaux (Student)</b> , IRCER, France; <b>Edern Menou</b> , <b>Thomas Vaubois</b> , Safran, France; <b>Cédric Jaoul</b> , IRCER, France; <b>Marjorie Cavarroc</b> , Safran, France
4:20pm		<b>MA1-2-MoA-9</b> Adaptive Opto-Neuromorphic Device Based on Monolayer MoS <sub>2</sub> for Extreme-Temperature Cognitive Operations, <b>Pukhraj Prajapat (Student)</b> , <b>Govind Gupta</b> , National Physical Laboratory, India
4:40pm	<b>PP1-2-MoA-10</b> High Fidelity Discrete Element Modelling of Particles in Motion for PVD Coating Optimization, <b>Faranak Tayefi Ardebili</b> , University of Namur, Namur Institute of Structured Matter (NISM), Namur, Belgium, USA; <b>Jerome Muller</b> , <b>pavel Moskovkin</b> , <b>Cedric Vandenabeele</b> , <b>stephane Lucas</b> , University of Namur, Namur Institute of Structured Matter (NISM), Namur, Belgium	<b>MA1-2-MoA-10</b> Reactive Sputtering of CrMoNbWxTiCy Carbide Films by High Power Impulse Magnetron Sputtering System: Effect of W and Carbon Contents, <b>ChunHao Cheng (Student)</b> , <b>Yung-Chin Yang</b> , National Taipei University of Technology, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan
5:00pm	<b>PP1-2-MoA-11</b> Investigation on Surface Properties Evolution during PVD Duplex Coating Production Steps for H13 Hot Work Steel, <b>João Vitor Piovesan Dalla Nora</b> , Federal University of Rio Grande do Sul, Brazil; <b>Felipe Canal</b> , Universidade Federal do Rio Grande do Sul, Brazil; <b>Leandro Bettoni Ortega</b> , Oerlikon Balzers, USA; <b>Steffen Aichholz</b> , <b>Rafael Lopes da Silva</b> , Oerlikon Balzers, Brazil; <b>Alexandre Da Silva Rocha</b> , Universidade Federal do Rio Grande do Sul, Brazil	<b>INVITED: MA1-2-MoA-11</b> Materials for Aerospace Extreme Environments, <b>Samir M. Aouadi</b> , University of North Texas, USA
5:20pm		

# Monday Afternoon, April 20, 2026

<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country C - Session MA4-1-MoA</b> <b>Boron-containing Coatings I</b> <b>Moderator:</b> <b>Martin Dahlqvist</b> , Linköping University, Sweden		<b>Topical Symposium on Sustainable Surface Engineering</b> <b>Room Town &amp; Country B - Session TS1-2-MoA</b> <b>Coatings for Batteries and Hydrogen Applications II</b> <b>Moderators: Chen-Hao Wang</b> , National Taiwan University of Science and Technology, Taiwan, <b>Martin Welters</b> , KCS Europe GmbH, Germany, <b>Fan-Bean Wu</b> , National United University, Taiwan	
1:40pm			
2:00pm			
2:20pm		<b>TS1-2-MoA-3</b> Hydrogen-Induced Failure of High-Strength Austenitic Steel Under Wet Friction Conditions, <b>Damian Batory</b> , Lodz University of Technology, Poland; <b>Pedro Avila</b> , <b>Etienne Bousser</b> , <b>Thomas Chagnon</b> , <b>Ludvik Martinu</b> , <b>Jolanta Klemberg-Sapieha</b> , Polytechnique Montréal, Canada	
2:40pm	<b>INVITED: MA4-1-MoA-4</b> Charge Trapping Behavior in BN Films Fabricated by a Reactive Plasma-Assisted Coating Technique and Their Design Strategies, <b>Koji Eriguchi</b> , Kyoto University, Japan	<b>INVITED: TS1-2-MoA-4</b> Advances in <i>Operando</i> and <i>In Situ</i> Cross-sectional Characterization of Thin Films for Battery and Hydrogen Applications, <b>Juraj Tadt</b> , Montanuniversität Leoben, Austria; <b>Francois Lienard</b> , <b>Manfred Burghammer</b> , ESRF, Grenoble, France; <b>Tobias Huber</b> , Huber Scientific, Austria; <b>Henrik Bratlie</b> , <b>Daniel Rettenwander</b> , Norwegian University of Science and Technology (NTNU), Norway; <b>Rostislav Daniel</b> , <b>Markus Alfreider</b> , <b>Michael Tkadletz</b> , <b>Jozef Keckes</b> , Montanuniversität Leoben, Austria	
3:00pm			
3:20pm	<b>MA4-1-MoA-6</b> Development of TiB <sub>2</sub> :h-BN:a-C Based Nanocomposite Coatings with Enhanced Wear and Corrosion Resistance for Turbojet and Gas Turbine Components, <b>Gokhan Gulten</b> , <b>Banu Yaylali</b> , <b>Mustafa Yesilyurt</b> , <b>Ali Emre</b> , <b>Yasar Totik</b> , Atatürk University, Turkey; <b>Justyna Kulczyk-Malecka</b> , <b>Peter Kelly</b> , Manchester Metropolitan University, UK; <b>Ihsan Efeoglu</b> , Atatürk University, Turkey	<b>TS1-2-MoA-6</b> Atomic Layer Deposition for Enhancing Durability of Fuel Cell Catalysts, <b>Shao-Chuan Chang</b> , <b>Chih-Liang Wang</b> , Department of Materials Science and Engineering, National Tsing Hua University, Taiwan	
3:40pm	<b>BREAK</b>	<b>BREAK</b>	
4:00pm	<b>INVITED: MA4-1-MoA-8</b> Energy Efficiency in Pulsed-DC Powder-Pack Boriding: A Sustainable Approach to Surface Hardening of Metallic Materials, <b>Ivan E Campos Silva</b> , Instituto Politecnico Nacional, Mexico	<b>TS1-2-MoA-8</b> Electrocatalytic Performance Analysis of FeNi <sub>x</sub> MoWCu High Entropy Alloy Thin Films: Effects of Ni Content, <b>Yen-Chin Lai (Student)</b> , <b>Po-Chun Chen</b> , National Taipei University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan	
4:20pm		<b>TS1-2-MoA-9</b> Development of FeNiMoWCuN and FeNiMoWCuC High Entropy Alloy Thin Film as Efficient Electrocatalysts for Water-splitting Applications, <b>TAI Kao Cheng (Student)</b> , <b>Lee Jyh-Wei</b> , Ming Chi University of Technology, Taiwan; <b>Lou Bih-Show</b> , Chang Gung University, Taoyuan, Taiwan; <b>Li Chia-Lin</b> , Ming Chi University of Technology, Taiwan	
4:40pm	<b>INVITED: MA4-1-MoA-10</b> Investigation of Technologically Driven Compositional and Structural Changes, Mechanical Properties, and Alloying of Transition Metal Diboride Thin Films, <b>Viktor Sroba</b> , Linköping University, Sweden, Slovakia	<b>INVITED: TS1-2-MoA-10</b> High-Entropy Oxide Thin Films for Sustainable Battery Applications, <b>Pavel Soucek</b> , <b>Tatiana Pitonakova</b> , <b>Tomas Rada</b> , Masaryk University, Czechia; <b>Tomas Kazda</b> , <b>Antonin Simek</b> , Brno University of Technology, Czechia; <b>Petr Vasina</b> , Masaryk University, Czechia	
5:00pm			
5:20pm			

# Tuesday Morning, April 21, 2026

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Palm 1-2 - Session CM1-1-TuM</b>  <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I</b>  <b>Moderators: Damien Faurie</b>, Univ. Sorbonne Paris Nord, France,  <b>Naureen Ghafoor</b>, Linköping University, Sweden,  <b>Aparna Saksena</b>, Max Planck Institute for Sustainable Materials, Germany</p>		<p><b>Functional Thin Films and Surfaces</b>  <b>Room Palm 5-6 - Session MB2-2-TuM</b>  <b>Thin Films for Emerging Electronic and Quantum Photonic Devices II</b>  <b>Moderators:</b>  <b>Ufuk Kilic</b>, University of Nebraska - Lincoln, USA,  <b>Ulrich Schmid</b>, TU Wien, Austria</p>	
8:00am	<p><b>INVITED: CM1-1-TuM-1</b> <i>Accelerated Atomic-Scale Exploration of Phase Evolution in Compositionally Complex Solid Solution Using Combinatorial Processing Platforms (CPP)</i>,  <b>Yujiao Li</b>, Ruhr University Bochum, Germany</p>	<p><b>INVITED: MB2-2-TuM-1</b> Polyoxometalate Thin Film Heterostructures and Blends with Neuromorphic Computing Capabilities,  <b>Dimitra Georgiadou</b>, University of Southampton, UK</p>	
8:20am			
8:40am	<p><b>CM1-1-TuM-3</b> Advanced Thin Film Characterization Through the Combination of New GD-OES System and Raman Analysis, <b>Kayvon Savadkouei</b>, Horiba, USA; <b>Suyeon Lee, Patrick Chapon, Lionel Garrido</b>, Horiba Europe Research Center, France</p>	<p><b>INVITED: MB2-2-TuM-3</b> Yttrium-Doped Aluminum Nitride Memristors to Enhance the Pattern Recognition Accuracy of Unsupervised Spiking Neural Network,  <b>Jer-Chyi Wang</b>, Chang Gung University, Taiwan</p>	
9:00am	<p><b>INVITED: CM1-1-TuM-4</b> <i>In Situ</i> Micromechanical Characterization of Nanocrystalline Materials Coupled with X-Ray Nanodiffraction,  <b>Michael Meindlhumer, Juraj Todt</b>, Technical University of Leoben, Austria; <b>Manfred Burghammer, Martin Rosenthal, Asma A. Medjahed</b>, ESRF, Grenoble, France; <b>Noel Sheshi</b>, University of Udine, Italy; <b>Michal Zitek, Anton Hohenwarter</b>, Technical University of Leoben, Austria; <b>Enrico Salvati</b>, University of Udine, Italy; <b>Doris Steinmüller-Nethl</b>, CarbonCompetence GmbH, Austria; <b>Daniel Kiener, Jozef Keckes, Markus Alfreider</b>, Technical University of Leoben, Austria</p>		
9:20am		<p><b>MB2-2-TuM-5</b> Impact of Interlayers on the Electrical and Microstructural Stability of Cu Films Deposited on SiC Substrates, <b>Jui-Wei Hsu (Student)</b>, College of Semiconductor Research, National Tsing Hua University, Hsinchu, Taiwan; <b>Fan-Yi Ouyang</b>, Department of Engineering and System Science, National Tsing Hua University, Hsinchu, Taiwan</p>	
9:40am		<p><b>INVITED: MB2-2-TuM-6</b> Ternary-Blending Energetics and 3d Packing in Thin Films Enable Ultralow-Noise Nir Opds and Thermally Durable All-Polymer Opvs, <b>Chih-Ping Chen</b>, Ming Chi University of Technology, Taiwan</p>	
10:00am	<p><b>CM1-1-TuM-7</b> High Spatial Resolution Electrical Characterization of Crystal Defects in Metals and Alloys, <b>Hanna Bishara</b>, Tel Aviv University, Israel</p>		
10:20am	<p><b>INVITED: CM1-1-TuM-8</b> Advanced Nanoscale 3D Tomography (APT) for Corrosion Barrier Healing in Steels,  <b>Robert Ulfig</b>, CAMECA Instruments Inc., USA</p>		
10:40am			

# Tuesday Morning, April 21, 2026

<b>Protective and High-temperature Coatings</b> <b>Room Palm 3-4 - Session MA3-1-TuM</b> <b>High Entropy and Other Multi-principal-element Materials I</b> <b>Moderators: Frederic Sanchette, Université de Technologie de Troyes, France, Frédéric Schuster, CEA, France</b>		<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country D - Session MA4-2-TuM</b> <b>Boron-containing Coatings II</b> <b>Moderators:</b> <b>Martin Dahlqvist, Linköping University, Sweden,</b> <b>Anna Hirle, TU Wien, Austria</b>	
8:00am	<b>MA3-1-TuM-1</b> A Combinatorial Approach to Develop Sputter-Deposited Lanthanide-Containing High Entropy Alloys for ICF Applications, <b>Daniel Goodelman</b> , Lawrence Livermore National Laboratory, USA; <b>Minsuk Seo</b> , Lawrence Livermore National Laboratory, Republic of Korea; <b>Gregory Taylor, Alison Engwall-Holmes, Swanee Shin, David Strozzi, Brandon Bocklund, John Chesser, Jimmy Aut, Sergei Kucheyev, Leonardus Bimo Bayu Aji</b> , Lawrence Livermore National Laboratory, USA	<b>MA4-2-TuM-1</b> Tuning Structure and Mechanical Properties of TaB <sub>x</sub> Films using HiPIMS, <b>Kateryna Smyrnova, Tomáš Roch, Martin Truchlý</b> , CENAM FMPI, Comenius University in Bratislava, Slovakia; <b>Peter Švec</b> , Institute of Physics, SAS, Slovakia; <b>Rainer Hahn, Helmut Riedl</b> , TU Wien, Austria; <b>Leonid Satrapinsky, CENAM FMPI</b> , Comenius University in Bratislava, Slovakia; <b>Viktor Šroba</b> , Linköping University, Sweden; <b>Marián Mikula</b> , CENAM FMPI, Comenius University in Bratislava, Slovakia	
8:20am	<b>MA3-1-TuM-2</b> Lanthanide- and Actinide-Containing High-Entropy-Alloy Coatings for Inertial Confinement Fusion Hohlraums, <b>Leonardus Bimo Bayu Aji</b> , Lawrence Livermore National Laboratory, USA	<b>MA4-2-TuM-2</b> Solid Self-Lubrication Mechanism of B <sub>2</sub> O <sub>3</sub> in Boride Based Thin Film Materials Under Various Atmospheres, <b>Daniel Pözlberger (Student)</b> , Institute of Materials Science and Technology, TU Wien, Austria; <b>Norma Salvadores Farran, Tomasz Wojcik, Philip Kutrowatz, Rainer Hahn</b> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <b>Eleni Ntemou, Daniel Primetzhofer</b> , Department of Physics and Astronomy, Uppsala University, Sweden; <b>Carsten Gachot</b> , Institute of Engineering Design and Product Development, Research Unit Tribology, TU Wien, Austria; <b>Helmut Riedl</b> , Institute of Materials Science and Technology, TU Wien, Austria	
8:40am	<b>INVITED: MA3-1-TuM-3</b> Machine Learning Assisted Design of Complex and High Entropy Alloys by Hybrid Hipims/Pulsed Dc Pvd Process for Low Carbon Energy Applications in Extreme Environments, <b>Paul Faulquier</b> , CEA-INSTN, France; <b>Frédéric Schuster, Ryma Haddad, Fanny Balbaud-Côlérier</b> , CEA, France; <b>Jean-Philippe Poli</b> , CEA List, France; <b>Eric Monsifrot</b> , AZ Concept, France	<b>MA4-2-TuM-3</b> Super-Ordered MAB Phases: Theoretical Design of Novel Boron-Containing Materials with Simultaneous in-Plane and Out-of-Plane Chemical Ordering, <b>Martin Dahlqvist, Johanna Rosen</b> , Materials Design Division, Linköping University, Sweden	
9:00am			
9:20am	<b>MA3-1-TuM-5</b> EELS study of Fe–Co–Ni Phosphides electrocatalysts for Hydrogen Evolution Reaction, <b>Chun-Te Chiang (Student)</b> , Southern Taiwan University of Science and Technology, Taiwan; <b>Yu-Min Shen</b> , National Dong Hwa University (NDHU), Taiwan; <b>Yu-Tsung Lin, Jow-Lay Huang</b> , National Cheng Kung University (NCKU), Taiwan; <b>Sheng-Chang Wang</b> , Southern Taiwan University of Science and Technology, Taiwan		
9:40am	<b>MA3-1-TuM-6</b> Solid-State Synthesis and In-Situ XRD Analysis of Titanium-Based Composite Oxides for Lithium-Ion Battery Anodes and Application, <b>Guan-Hong Lin (Student)</b> , <b>Hsing-I Hsiang</b> , National Cheng Kung University (NCKU), Taiwan; <b>Yu-Min Shen</b> , National Dong Hwa University (NDHU), Taiwan		
10:00am			
10:20am			
10:40am			

# Tuesday Morning, April 21, 2026

	<p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b>  <b>Room Town &amp; Country B - Session MD1-2-TuM</b>  <b>Coatings and Surfaces for Medical Devices: Mechanical, Corrosion, Tribocorrosion, and Surface Processing II</b>  <b>Moderators: Po-Chun Chen</b>, National Taipei University of Technology, Taiwan,  <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France</p>	<p><b>Tribology and Mechanics of Coatings and Surfaces</b>  <b>Room Town &amp; Country C - Session MC3-1-TuM</b>  <b>Tribology of Coatings and Surfaces for Industrial Applications I</b>  <b>Moderators:</b>  <b>Osman Eryilmaz</b>, Argonne National Laboratory</p>
8:00am	<p><b>INVITED: MD1-2-TuM-1</b> Metallic-Capped Nanoslit Structure Integrating with Microfluidic Devices for Biosensing Applications.,  <i>Yu-Jui (Ray) Fan</i>, National Yang Ming Chiao Tung University (NYCU), Taiwan</p>	<p><b>INVITED: MC3-1-TuM-1</b> Bridging Research and Industrial Application: Advanced Coatings and Surface Treatments for Tribological Challenges,  <i>Andras Korenyi-Both</i>, Woodward Inc., USA</p>
8:20am		
8:40am	<p><b>INVITED: MD1-2-TuM-3</b> Plasma-Activated Chitosan-Hydrogel Coating Incorporating Natural Immunomodulatory Protein (GMI) for Enhanced Tissue Regeneration and Oral Cancer Inhibition, <i>Yu-Rou Lin, Meng Yun Wu, Sheng-Yen Lin, Ying-Sui Sun</i>, Taipei Medical University, Taiwan</p>	<p><b>MC3-1-TuM-3</b> DLC-Based Coatings with Enhanced Cavitation Resistance for Automotive Applications, <i>Kenny Bislin</i>, Oerlikon Surface Solutions AG, Liechtenstein; <i>Martin Bohley</i>, Oerlikon Balzers Coating Germany GmbH, Germany; <i>Christian Fleischmann, Astrid Gies, Theresa Huben, Kaushik Hebbar Kannur, Felix Oelschlegel, Stefan Moser</i>, Oerlikon Surface Solution AG, Liechtenstein; <i>Timea Stelzig</i>, Oerlikon AM Europe GmbH, Germany</p>
9:00am		<p><b>INVITED: MC3-1-TuM-4</b> Surface Technologies for Geothermal Energy Applications,  <i>Oyelayo Ajayi, Levent Eryilmaz, Aaron Greco</i>, Argonne National Laboratory, USA</p>
9:20am	<p><b>INVITED: MD1-2-TuM-5</b> Low Temperature Plasma Assisted Strategies to Surface Engineering of Biomaterial, <i>Claude Côté, Noureddine Oudini, Alexa Bagdasarian</i>, PLASMIONIQUE Inc., Canada; <i>Kambiz Chizari</i>, PLSMIONIQUE Inc, Canada; <i>Eduardo Loreto</i>, PLASMIONIQUE Inc, Canada; <i>Anita Sarkissian, Ryan Porter, Andranik Sarkissian</i>, PLASMIONIQUE Inc., Canada</p>	
9:40am		<p><b>MC3-1-TuM-6</b> Tailoring Ice Adhesion Behavior of Erosion Resistant Coatings: Tuning Surface Chemistry and Physical Properties,  <i>Olayinka Abegunde, Nathan Madden, Grant Crawford, Forest Thompson</i>, South Dakota School of Mines and Technology, USA; <i>Emily Asenath-Smith</i>, US Army Engineer Research and Development Center (ERDC) Cold Regions Research and Engineering Laboratory (CRREL), Hanover, NH 03755, USA</p>
10:00am	<p><b>MD1-2-TuM-7</b> Superhydrophilic Metallic Coating: PVD Fabrication and Applications, <i>Sea-Fue Wang</i>, National Taipei University of Technology, Taiwan; <i>Jinn P. Chu</i>, National Taiwan University of Science and Technology, Taiwan</p>	<p><b>INVITED: MC3-1-TuM-7</b> 2D MXene Coatings – Combining Macro-Scalesuperlubricity and Durability,  <i>Andreas Rosenkranz</i>, University of Chile</p>
10:20am	<p><b>INVITED: MD1-2-TuM-8</b> Ti-Nb-Mo Alloy Coatings Sputter-Deposited on 316L for Biomedical Applications, <i>Katherine Martinez-Orozco, Bruno Aquino</i>, Federal University of Sao Carlos, Brazil; <i>Raira Apolinario, Haroldo Pinto</i>, University of Sao Paulo, Brazil; <i>Conrado Afonso, Pedro Nascente</i>, Federal University of Sao Carlos, Brazil</p>	
10:40am		<p><b>MC3-1-TuM-9</b> Friction and wear of composite MXene/MoS<sub>2</sub> coating under low viscosity fuels under reciprocating sliding, <i>Ali Zayaan Macknojia (Student)</i>, <i>Mohammad Eskandari</i>, University of North Texas, USA; <i>Stephan Berkebile</i>, Army Research Laboratory, USA; <i>Andrey Voevodin, Samir Aouadi, Diana Berman</i>, University of North Texas, USA</p>

# Tuesday Morning, April 21, 2026

**Exhibitors Keynote Lecture**  
**Room Town & Country A - Session EX-TuM**  
**Exhibitors Keynote Lecture**  
**Moderator: Peter Kelly**, Manchester Metropolitan University, UK

11:00am

**INVITED: EX-TuM-1** Thin Film Tribological Coatings to Enhance the Durability of Engineered Bearings and Industrial Motion Components,  
**Ryan Evans**, The Timken Company, USA

11:20am

11:40am

# Tuesday Afternoon, April 21, 2026

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Palm 1-2 - Session CM1-2-TuA</b>  <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I</b>  <b>Moderators: Damien Faurie</b>, Univ. Sorbonne Paris Nord, France,  <b>Naureen Ghafoor</b>, Linköping University, Sweden,  <b>Aparna Saksena</b>, Max Planck Institute for Sustainable Materials, Germany</p>		<p><b>Protective and High-temperature Coatings</b>  <b>Room Town &amp; Country A - Session MA2-1-TuA</b>  <b>Hard and Nanostructured Coatings I</b>  <b>Moderators:</b>  <b>Stanislav Haviar</b>, University of West Bohemia, Czechia,  <b>Kuan-Che Lan</b>, National Tsing Hua University, Taiwan,  <b>Norma Salvadores Farran</b>, TU Wien, Austria</p>
1:40pm		<p><b>MA2-1-TuA-1</b> The Fabrication, Microstructure, and Characterization of Functional Electroless Ni-P Composite Surface Coatings on Dried Luffa as Bio-Plate, <b>Tzu-Hsiu Hung (Student)</b>, <i>Kai-Tse Tsai, Fan-Bean Wu</i>, National United University, Taiwan</p>
2:00pm	<p><b>CM1-2-TuA-2</b> Advancements in XPS Depth Profiling using Femtosecond Laser Ablation (fs-LA) for Thin Film and Metal Oxide Surfaces, <b>James Lallo</b>, Thermo Fisher Scientific, USA; <i>Tim Nunney, Robin Simposn</i>, Thermo Fisher Scientific, UK; <i>Mark Baker, Charlie Chandler</i>, University of Surrey, UK</p>	<p><b>MA2-1-TuA-2</b> Erosion-Corrosion Analysis of Cr<sub>2</sub>N/Ni<sub>3</sub>N Multi-Layer Coating System Deposited on Nickel Aluminium Bronze (Nab) Using the Dc Magnetron Sputtering, <b>Aakanksha Jain (Student)</b>, <i>Ramesh Chandra, Rahul S Mulik</i>, Indian Institute of Technology Roorkee, India</p>
2:20pm	<p><b>INVITED: CM1-2-TuA-3</b> Sample Charging During X-Ray Photoelectron Spectroscopy Analyses of Thin Film Insulators: From Understanding to Solution, <b>Grzegorz (Greg) Greczynski</b>, Linköping University, Sweden</p>	<p><b>MA2-1-TuA-3</b> Characteristics of TiBCN-based Thin Film with Different Mo Content by Direct Current Plasma Chemical Vapor Deposition, <b>Takeyasu Saito</b>, <i>Rizu Kurogi, Noki Okamoto</i>, Osaka Metropolitan University, Japan</p>
2:40pm		<p><b>INVITED: MA2-1-TuA-4</b> CrAlN-based Protective Nanostructured Coatings: Process–Structure–Property Correlations and Performance in Energy-Related Applications, <b>Juan Carlos Sanchez-Lopez</b>, <i>Teresa Cristina Rojas</i>, Institute of Materials Science of Seville (ICMS), Spanish National Research Council (CSIC), Spain; <i>Ramón Escobar-Galindo</i>, Universidad de Sevilla (US), Spain; <i>Santiago Dominguez-Meister, Marta Brizuela</i>, TECNALIA, Basque Research and Technology Alliance (BRTA), Spain; <i>Sonia Mato, Francisco Javier Pérez</i>, Universidad Complutense de Madrid (UCM), Spain</p>
3:00pm	<p><b>INVITED: CM1-2-TuA-5</b> Automated XPS/XAS Multiplet Fitting for Reproducible Orbital Covalency Extraction in Transition-Metal Systems, <b>Mariela Bravo-Sanchez</b>, <i>Mario U. Delgado-Jaime, Tania E. Gonzalez-Robles</i>, Universidad de Guadalajara, Mexico</p>	
3:20pm	<p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>	<p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>
3:40pm		
4:00pm	<p><b>CM1-2-TuA-8</b> Is Platinum a Proton-Blocking Catalyst?, <b>Aparna Saksena</b>, <i>Bingxin Li, Yujun Zhao, Manoj Prabhakar, Jörg Neugebauer, Mira Todorova, Dierk Raabe, Baptiste Gault, Yug Joshi</i>, Max-Planck-Institut für Sustainable Materials, Germany</p>	<p><b>MA2-1-TuA-8</b> Enhancement of Thermal Stability of Sputtered Nanotwinned Ag Thin Films by Cu Doping for Reliable Electronic Applications, <b>Jun-Hui Qiu (Student)</b>, Department of Engineering and System Science, National Tsing Hua University, Taiwan; <i>Yu-Lin Liao</i>, College of Semiconductor Research, National Tsing Hua University, Taiwan; <i>Fan-Yi Ouyang</i>, Department of Engineering and System Science, National Tsing Hua University, Taiwan</p>
4:20pm	<p><b>CM1-2-TuA-9</b> Correlating Spectroscopic Ellipsometry Measurements in Imaging and Diffractive Modes, <b>Md Rashedul Huque</b>, <i>Yishu Foo, Kawshik Shikder, Yee Man Kwong, Zhang Yun, May Thawda Phoo, Juan Antonio Zapien</i>, City University of Hong Kong</p>	<p><b>MA2-1-TuA-9</b> Backscattered Argon Neutrals: Hidden Architects of Hf–Al–N Nanostructure Evolution, <b>Naureen Ghafoor</b>, <i>Marcus Lorentzon</i>, Linköping Univ., IFM, Thin Film Physics Div., Sweden; <i>Rainer Hahn</i>, TU Wien, Austria; <i>Diederik Depla</i>, Ghent University, Belgium; <i>Justinas Palisaitis, Jens Birch</i>, Linköping Univ., IFM, Thin Film Physics Div., Sweden</p>
4:40pm	<p><b>CM1-2-TuA-10</b> Machine Learning Assisted Structure-Property Relationships by Nanoindentation, <b>Ude Dirk Hangen</b>, Bruker Nano GmbH, Germany; <i>Eric Hintsala, Bernhard Becker, Benjamin Stadnick, Kevin Schmalbach, Douglas Stauffer</i>, Bruker, Inc., USA</p>	<p><b>MA2-1-TuA-10</b> From Grain Refinement to Precipitation Hardening: Si-Driven Microstructural Control in (Al,Mo,Ta,V,W)C Coatings, <b>M.A. Altof</b>, <i>Balint Hajas</i>, TU Wien, Austria; <i>Szilard Kolozsvári</i>, Plansee Composite Materials GmbH, Germany; <i>Tomasz Wojcik, Alexander Kimbauer, Paul Mayrhofer</i>, TU Wien, Austria</p>
5:00pm		<p><b>MA2-1-TuA-11</b> Influence of Interlayers on Thermal Stability and Abnormal Grain Growth in Co-Sputtered Nanotwinned Cu–Ag Alloy Thin Films, <b>Ding-Peng Lin (Student)</b>, <i>Yu-Lin Liao, Fan-yi Ouyang</i>, National Tsing Hua University, Taiwan</p>

# Tuesday Afternoon, April 21, 2026

<p><b>Protective and High-temperature Coatings</b>  <b>Room Palm 3-4 - Session MA3-2-TuA</b>  <b>High Entropy and Other Multi-principal-element Materials II</b>  <b>Moderators:</b>  <b>Alexander Kirnbauer</b>, TU Wien, Austria,  <b>Pavel Soucek</b>, Masaryk University, Czechia</p>		<p><b>Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications</b>  <b>Room Town &amp; Country B - Session MD2-1-TuA</b>  <b>Coatings and Sensors for Health, Food and Agriculture: Antibacterial, Bioactive, and Flexible Interfaces I</b>  <b>Moderators: Diego Mantovani</b>, Université Laval, Canada,  <b>Phaedra Silva-Bermudez</b>, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico</p>	
1:40pm	<p><b>INVITED: MA3-2-TuA-1</b> On the Structure and Properties of Refractory-Metal-Based High-Entropy Metal-Sublattice Ceramics,  <b>Alexander Kirnbauer</b>, TU Wien, Thin Film Materials Science Division, Austria</p>	<p><b>INVITED: MD2-1-TuA-1</b> Deposition and Surface Characterization of Low-Pressure Plasma Ultra-Thin Coatings Designed for Biomedical Applications,  <b>Laurent Houssiau</b>, University of Namur, Belgium</p>	
2:00pm			
2:20pm	<p><b>MA3-2-TuA-3</b> Influence of Nitrogen Contents on the Microstructure, Mechanical, and Electrochemical Behaviors of AlCrNbSiTiMoN<sub>x</sub> high entropy alloy films deposited by HiPIMS, <b>CHANG-YI JIANG (Student)</b>, Department of Materials Engineering Ming Chi University of Technology, Taiwan; <b>Chia-Lin Li</b>, Center for Plasma and Thin Film Technologies, Taiwan; <b>Bih-Show Lou</b>, Chemistry Division, Center for General Education, Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b>, Department of Materials Engineering Ming Chi University of Technology, Taiwan</p>	<p><b>MD2-1-TuA-3</b> Silver-Copper Nanocoating (Sakcu®) Deposited on Stainless Steel Brackets to Reduce Biofilm Formation of <i>Streptococcus Mutans</i> and Potentially Prevent Early Dental Caries, <b>Alejandra Cervantes-Ramírez (Student)</b>, <b>Lorena Reyes-Carmona</b>, <b>David Eduardo Martínez-Lara</b>, <b>Andrea Quiroz-Cervantes</b>, <b>Gina Prado-Prone</b>, <b>Sandra E. Rodil</b>, <b>Argelia Almaguer-Flores</b>, UNAM, Mexico</p>	
2:40pm	<p><b>MA3-2-TuA-4</b> Development of CrMoNbW<sub>2</sub>Ti and CrMoNbTiWC high entropy alloy films by HiPIMS: effect of Ti and C contents, <b>Han-Chieh Chen</b>, <b>Chia-Lin Li</b>, <b>Bih-Show Lou</b>, <b>Jyh-Wei Lee</b>, Ming Chi University of Technology, Taiwan</p>	<p><b>INVITED: MD2-1-TuA-4</b> ZnO Nanowires: A Platform for Biosensing Applications, <b>Rafael Salinas</b>, <b>Shirley Martínez</b>, <b>Guillermo Santana Rodriguez</b>, <b>Carlos Ramos</b>, <b>Ateet Dutt</b>, UNAM, Mexico</p>	
3:00pm	<p><b>MA3-2-TuA-5</b> Synthesis and Characterization of Amorphous CrCuTaTiV High-Entropy Thin Films: The Role of Sputter Yield in Custom Target Design, <b>Uriel Cárdenas-Rojas</b>, <b>Sandra E. Rodil</b>, <b>Carlos Ramos-Vilchis</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México</p>		
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>		<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
3:40pm			
4:00pm	<p><b>MA3-2-TuA-8</b> Combinatorial Approach for the Synthesis of High-Entropy-Like Protective Nitride Coatings for Highly Aggressive Tribo-Corrosion Applications, <b>Etienne Bousser</b>, <b>Olayinka Abegunde</b>, <b>Fellipy S. Rocha</b>, <b>Pedro Avila</b>, <b>Ludvik Martinu</b>, <b>Jolanta Ewa Klemberg-Sapieha</b>, Polytechnique Montréal, Canada</p>	<p><b>MD2-1-TuA-8</b> Graduate Student Award Finalist Talk: Photoresponsive Bilayer Coating Integrating Zinc and a Chitosan-Antibiotic Drug Delivery Film for on-Demand Antimicrobial Photodynamic Therapy in Biomedical Implants, <b>Samuel Santana Malheiros (Student)</b><sup>1</sup>, <b>Maria Helena Rossy Borges</b>, University of Campinas (UNICAMP), Brazil; <b>João Gabriel Silva Souza</b>, UnG, Brazil; <b>Elidiane Cipriano Rangel</b>, UNESP, Brazil; <b>Carlos Fortulan</b>, University of São Paulo, Brazil; <b>Nilson Cristino da Cruz</b>, UNESP, Brazil; <b>Eduardo Buozi Moffa</b>, University of Saskatchewan, Canada; <b>Bruna Egumi Nagay</b>, <b>Valentim Adelino Ricardo Barão</b>,</p>	
4:20pm		<p><b>MD2-1-TuA-9</b> Electrospun Nanocomposite Membranes for the Development of Osteoinductive Microambients, <b>Phaedra Silva-Bermudez</b>, <b>Julietta García-López</b>, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Gina Prado-Prone</b>, Laboratorio de Biointerfases, DEPeI, Facultad de Odontología, Universidad Nacional Autónoma de México; <b>Montserrat Ramírez-Arellano</b>, <b>Gustavo E. Martínez-Murillo</b>, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Lucia S. Flores-Hidalgo</b>, Posgrado en Ciencia e Ingeniería de Materiales, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>Sandra E. Rodil</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México</p>	
4:40pm			
5:00pm			

<sup>1</sup> Graduate Student Award Finalist

# Tuesday Afternoon, April 21, 2026

<b>Topical Symposium on Sustainable Surface Engineering</b> <b>Room Town &amp; Country C - Session TS3-TuA</b> <b>Circular Strategies for Surface Engineering</b> <b>Moderators:</b> <b>Marcus Hans</b> , RWTH Aachen University, Germany, <b>Arnaud Le Febvrier</b> , Uppsala University, Sweden		<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Room Palm 5-6 - Session MC2-1-TuA</b> <b>Mechanical Properties and Adhesion</b> <b>Moderators:</b> <b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan, <b>Michael Meindlhumer</b> , Montanuniversität Leoben, Austria, <b>Balila Nagamani Jaya</b> , Indian Institute of Technology, India	
1:40pm	<b>INVITED: TS3-TuA-1</b> Rethinking Resources: Circular Strategies in Target Material Production, <i>Lukas Zauner, Marie Friedl, Laszlo Sajti, Mariangela Fedel, Emanuel Feuerstein, Michael Kitzmantel, Erich Neubauer</i> , RHP Technology, Austria	2:00pm	
2:20pm	<b>TS3-TuA-3</b> Opportunities of Combinatorial Thin Film Materials Design for the Sustainable Development of Magnesium-Based Alloys, <i>Marcus Hans</i> , RWTH Aachen University, Germany; <i>Philipp Keuter</i> , GTT-Technologies, Germany; <i>Aparna Saksena</i> , Max Planck Institute for Sustainable Materials, Germany; <i>Janis Sälker, Markus Momma</i> , RWTH Aachen University, Germany; <i>Hauke Springer</i> , Universität Duisburg-Essen, Germany; <i>Jakub Nowak, Daniela Zander</i> , RWTH Aachen University, Germany; <i>Daniel Primetzhofer</i> , Uppsala University, Sweden; <i>Jochen Schneider</i> , RWTH Aachen University, Germany	2:40pm	<b>INVITED: MC2-1-TuA-1</b> Mechanical and Interfacial Behavior of Liquid-Like Polymer Surfaces at Extremes, <i>Megan J. Cordill</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria
2:40pm	<b>INVITED: TS3-TuA-4</b> Life Cycle Analysis for Next Generation Sustainable Flexible Food Packaging Materials, <i>Glen West</i> , Manchester Metropolitan University, UK	3:00pm	<b>INVITED: MC2-1-TuA-3</b> In Situ Observation of Multicracking in Thin Films and Nanostructures, <i>Damien Faurie</i> , Université Sorbonne Paris Nord, France
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	3:00pm	<b>MC2-1-TuA-5</b> Numerical and Experimental Evaluation of Cyclic Contact Loads on Titanium Borides, <i>Hugo Alberto Pérez Terán, GERMAN ANIBAL RODRIGUEZ CASTRO, ALFONSO MENESES AMADOR, Felipe Nava Leana (Student)</i> , Instituto Politécnico Nacional, Mexico; <i>Daybelis Fernández Valdés</i> , Tecnológico Nacional de México; <i>VICTOR MANUEL ARAUJO MONSALVO</i> , Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico
3:40pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
4:00pm	<b>INVITED: TS3-TuA-8</b> Advanced Chemical and Environmental Design of Coatings: From TG-Mass Spectrometry Through Thermodynamic and Life Cycle Analysis Application, <i>Francisco Javier Perez Trujillo</i> , Calle Cantalejo 11, Spain	4:20pm	<b>INVITED: MC2-1-TuA-8</b> Grain Boundaries and “Complexions” in Metallic Thin Films: New Insights on the Interplay of Atomic Structure, Chemistry and Material Properties, <i>Gerhard Dehm</i> , Max Planck Institute for Sustainable Materials, Germany
4:40pm	<b>TS3-TuA-10</b> Reversible Solid Oxide Cells for Hydrogen Production and Storage Developed by Reactive Magnetron Co-Sputtering, <i>Justyna Kulczyk-Malecka, Kleitos Panagi, David Shaw, Peter Kelly</i> , Manchester Metropolitan University, UK	5:00pm	<b>MC2-1-TuA-10</b> Many-to-one Mapping Between Stress-Strain Curves and Spherical Indentation Load-Displacement Curves, <i>Santosh Thapa (Student), Yang-Tse Cheng, Madhav Baral</i> , University of Kentucky, USA
5:00pm		5:00pm	<b>MC2-1-TuA-11</b> Tribological Performance and Mechanistic Insights of Aluminium-Sic Composites Fabricated by Computerized Bottom-Pouring Stir Casting. <i>Vishal Mehta</i> , Automobile Engineering Department, Parul Institute of Technology, India; <i>Anand Joshi</i> , Micro Nano Research and Development Center, Parul University, India; <i>Unnati Joshi</i> , Mechanical Engineering Department, Parul Institute of Engineering & Technology, India

# Wednesday Morning, April 22, 2026

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Town &amp; Country C - Session CM3-2-WeM</b>  <b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning II</b>  <b>Moderators: Andrea Giunto, LBL</b>  <b>David Holec, Montanuniversität Leoben, Austria</b></p>		<p><b>International Union for Vacuum Science, Technique, and Applications Special Session</b>  <b>Room Palm 5-6 - Session IUVSTA-WeM</b>  <b>IUVSTA Special Session</b>  <b>Moderator:</b>  <b>Ivan G. Petrov, University of Illinois at Urbana-Champaign</b></p>	
8:00am		<p><b>INVITED: IUVSTA-WeM-1</b> The Enabling Power of Vacuum Science, IUVSTA and Field-Deployable Quantum-Based Innovations with the NIST-on-a-Chip Program, <b>Jay Hendricks</b>, NIST, USA</p>	
8:20am			
8:40am	<p><b>CM3-2-WeM-3</b> Investigating growth twinning in NiCr and NiFe alloys by employing a combinatorial high throughput approach, <b>Ashley Maldonado Otero (Student)</b>, Anthony Botros, University of Southern California, USA; Yi Liu, University of California Irvine, USA; <b>Mohammad Hadi Yazdani</b>, Aoyan Liang, University of Southern California, USA; <b>Irene Beyerlein</b>, University of California Santa Barbara, USA; <b>Diana Farkas</b>, Virginia Tech, USA; <b>Paulo Branicio</b>, University of Southern California, USA; <b>Timothy Rupert</b>, Johns Hopkins University, USA; <b>Andrea Hodge</b>, University of Southern California, USA</p>	<p><b>INVITED: IUVSTA-WeM-3</b> Chalcogenide Ovonic Threshold Switch (OTS) and Selector-Only Memory (SOM) Devices for Neuromorphic Applications, <b>Jong-Souk Yeo</b>, Siwon Park, Young-Min Kim, Sangyeop Kim, Yonsei University, Republic of Korea</p>	
9:00am	<p><b>CM3-2-WeM-4</b> High-Throughput Combinatorial Studies of Nanocrystalline Ni-Pt Thin Films, <b>Kyle Dorman</b>, Finley Haines, Heekwon Lee, Manish Jain, Tomas Babuska, Sadvikas Addamane, Christian Harris, Luis Jauregui, Ping Lu, Brad Boyce, John Curry, David Adams, Sandia National Lab, USA</p>		
9:20am	<p><b>INVITED: CM3-2-WeM-5</b> Experiment and Computation Meet in Mixed-Anion Thin Films, <b>Andrea Crovetto</b>, Technical University of Denmark</p>	<p><b>INVITED: IUVSTA-WeM-5</b> Quantum Effects of Hydrogen in Metal Thin Films, <b>Katsuyuki Fukutani</b>, University of Tokyo, Japan</p>	
9:40am			
10:00am	<p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>	<p><b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b></p>	
10:20am			
10:40am			
11:00am	<p><b>INVITED: CM3-2-WeM-10</b> Ion-Surface Interaction Models – Unraveling Microstructure Evolution in Oxides and Nitrides, <b>Denis Music</b>, Malmö University, Sweden</p>	<p><b>INVITED: IUVSTA-WeM-10</b> Stable and Metastable High Entropy Alloys, <b>Sven Ulrich</b>, Dimitri Litvinov, Jarir Aktaa, Adam Bichler, Michael Stueber, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany</p>	
11:20am			
11:40am	<p><b>CM3-2-WeM-12</b> Ai-Driven Prediction of Work Function Variations in ZnGa<sub>2</sub>O<sub>4</sub>(111) Under Multi-Gas Adsorption, <b>Chao-Chang Shen</b>, National Chung Hsing University, Taiwan; <b>Sheng-Fang Huang</b>, China University of Science and Technology, Taiwan; <b>Po-Liang Liu</b>, National Chung Hsing University, Taiwan</p>		
12:00pm	<p><b>CM3-2-WeM-13</b> Artificial Intelligence Framework for Understanding Defect-Mediated Transport in Se–Te–Pb Thin Films, <b>Maninder Kamboj</b>, Farah Mohammadi, Toronto Metropolitan University, Canada</p>		

# Wednesday Morning, April 22, 2026

	<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country B - Session PP2-1-WeM</b> <b>HiPIMS, Pulsed Plasmas, and Energetic Deposition I</b> <b>Moderators:</b> <b>Arutian P. Ehasarian, Sheffield Hallam University, UK,</b> <b>Tetsushide Shimizu, Tokyo Metropolitan University, Japan</b>	<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country A - Session MA2-2-WeM</b> <b>Hard and Nanostructured Coatings II</b> <b>Moderators: Stanislav Haviar, Univ. of West Bohemia, Czechia,</b> <b>Kuan-Che Lan, National Tsing Hua University, Taiwan,</b> <b>Norma Salvadores Farran, TU Wien, Austria</b>
8:00am	<b>PP2-1-WeM-1</b> Alpha-alumina thin films at low temperature: how R-HiPIMS process parameters influence purity and crystallinity, <i>Célia Dieudonné (Student)</i> , ICMCB, France; <i>Marjorie Cavarroc-Weimer, Safran, France</i>	<b>INVITED: MA2-2-WeM-1</b> Dual-Phase Crystalline-Amorphous Coatings Based on Thin-Film Metallic Glasses: Synthesis and Properties, <i>Petr Zeman</i> , University of West Bohemia, Czechia
8:20am	<b>PP2-1-WeM-2</b> Influence of Pulse Parameters in Multi-Pulse Hipims on Reactive Mode Transition for VO <sub>2</sub> Thin Film Deposition, <i>Erdong Chen (Student)</i> , <i>Rina Watabe</i> , Tokyo Metropolitan University, Japan; <i>Stephanos Konstantinidis</i> , University of Mons, Belgium; <i>Daniel Lundin</i> , Linköping University, Sweden; <i>Tetsuhide Shimizu</i> , Tokyo Metropolitan University, Japan	
8:40am	<b>INVITED: PP2-1-WeM-3</b> Bipolar HiPIMS Discharges: Principles, Diagnostics and Thin Film Deposition Strategies, <i>Jiří Čapek, Tomáš Kozák, Andrea Dagmar Pajdarová, Mina Farahani, Tomáš Tölg</i> , University of West Bohemia in Pilsen, Czechia	<b>MA2-2-WeM-3</b> Solubility Limit of Al in Cubic Transition-Metal Nitrides: Case Study of (Al,Cr)N, <i>Fedor F. Klimashin</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>M. Učík</i> , PLATIT a.s., Czechia; <i>D. Casari</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>S. Lellig</i> , RWTH Aachen, Germany; <i>T.J.E. Edwards</i> , NIMS, Japan; <i>H. Bolvardi</i> , A. Lümkmann, PLATIT AG, Switzerland; <i>J.M. Schneider</i> , RWTH Aachen, Germany; <i>J. Michler</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland
9:00am		
		<b>MA2-2-WeM-4</b> Hardness and Fracture Toughness Enhancement in Non-Stoichiometric Diboride Superlattices, <i>Marek Vidiš, Tomáš Fiantok, Martin Truchlý, Vitalii Izai, Leonid Satrapinskyy, Tomáš Roch</i> , Comenius University Bratislava, Slovakia; <i>Rainer Hahn, Helmut Riedl</i> , TU Wien, Austria; <i>Peter Švec</i> , Slovak Academy of Sciences, Slovakia; <i>Viktor Šroba, Marián Mikula</i> , Comenius University Bratislava, Slovakia
9:20am	<b>PP2-1-WeM-5</b> Synthesis-Dependent Phase Evolution in the W-N System: A Case Study with HiPIMS and N <sup>+</sup> ion source, <i>Oleksandr Pshyk, Kerstin Thorwarth, Nathan Rodkey, Sebastian Siol</i> , Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland	<b>MA2-2-WeM-5</b> Effects of Nitrogen Flow Rate and Deposition Temperature on the Structure and Properties of VMoN Thin Films Deposited by High Power Impulse Magnetron Sputtering, <i>Jia-Hong Huang, Pei-Fen Peng</i> , National Tsing Hua University, Taiwan
9:40am	<b>PP2-1-WeM-6</b> Development and Optimization of CrN and CrSiN Hipims Coatings for Enhanced Tool Performance in Cryogenic Machining of Ti6Al4V, <i>Gaya CHETTOUH (Student)</i> , University of Technology of Troyes (UTT), France; <i>Soufyane ACHACHE, Lamine GUEYE</i> , Université de Technologie de Troyes, France; <i>Yoann PINOT</i> , École Supérieure Nationale d'Arts et Métiers de Cluny, France; <i>Frederic SANCHETTE, Mohamed EL GARAH</i> , Université de Technologie de Troyes, France; <i>Corinne NOUVEAU</i> , École Supérieure Nationale d'Arts et Métiers de Cluny, France	<b>MA2-2-WeM-6</b> Multi-Scale Investigation of Superior Mechanical Properties in Nitride Ceramics with Negative Stacking Fault Energy, <i>Yong Huang, Zhuo Chen, Zaoli Zhang</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria
10:00am	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
10:20am		
10:40am		
11:00am	<b>PP2-1-WeM-10</b> Nanopatterned Nanolayer TiN/NbN Coatings as Plasmonic and Wear Resistant Antimicrobial Materials, <i>Arutian P. EHASARIAN, Arunprabhu Arunachalam Sugumaran</i> , Sheffield Hallam University, UK; <i>Ryan Bower, Ming Fu</i> , Imperial College London, UK; <i>David Owen, Ethan Muir, Yashodhan Purandare, Papken Ehasiar Hovsepian</i> , Sheffield Hallam University, UK; <i>Peter K. Petrov, Rupert Oulton</i> , Imperial College London, UK; <i>Thomas Smith</i> , Sheffield Hallam University, UK	<b>MA2-2-WeM-10</b> TiNbN / AlTiNbSiN / CrN Multilayer Coatings Irradiated by 300 keV Ar <sup>+</sup> Ions: The Role of Nitrogen, <i>Kuan-Che Lan, Chun-Hung Hsiao</i> , National Tsing Hua University, Taiwan; <i>Yin-Yu Chang</i> , National Formosa University, Taiwan
11:20am		<b>MA2-2-WeM-11</b> Extremely Versatile Coating Design Through Adjustable Magnetic Field Settings for Arc Sources Using the Advanced Arc Technology from Oerlikon Balzers, <i>Alexandre Michau, Denis Kurapov</i> , Oerlikon Surface Solution AG, Liechtenstein
11:40am		
12:00pm		

# Wednesday Morning, April 22, 2026

<b>Protective and High-temperature Coatings</b> <b>Room Palm 3-4 - Session MA3-3-WeM</b> <b>High Entropy and Other Multi-principal-element</b> <b>Materials III</b> <b>Moderators:</b> <b>Frederic Sanchette</b> , Université de Technologie de Troyes, France, <b>Pavel Soucek</b> , Masaryk University, Czechia		<b>Surface Engineering - Applied Research and Industrial</b> <b>Applications</b> <b>Room Palm 1-2 - Session IA2-1-WeM</b> <b>Surface Modification of Components in Automotive,</b> <b>Aerospace and Manufacturing Applications I</b> <b>Moderators: Satish Dixit</b> , Plasma Technology Inc., <b>Tanifuji Shinichi</b> , Kobe Steel Ltd., Japan	
8:00am		<b>INVITED: IA2-1-WeM-1</b> Micro-Impact Testing to Develop Multilayer Coating Systems with Enhanced Durability Under Cyclic High-Stress Contact, <b>Ben Beake</b> , Micro Materials Ltd, UK; <b>Tomasz Liskiewicz</b> , Manchester Metropolitan University, UK; <b>Sam McMaster</b> , Anglia Ruskin University, UK; <b>Daniel Tobola</b> , Lukasiewicz, Poland; <b>Luis Isern</b> , <b>John Nicholls</b> , Cranfield University, UK; <b>Hannah Zhang</b> , <b>Mark Gee</b> , National Physical Laboratory, UK	
8:20am			
8:40am		<b>INVITED: IA2-1-WeM-3</b> From Lab to Industry: Scaling Atmospheric Plasma Coatings for Metal Protection Against Corrosion, <b>Daphne Pappas</b> , Plasmatrete USA	
9:00am	<b>MA3-3-WeM-4</b> CrMoNbTaV Refractory High-Entropy Alloy: From Bulk Material to Films via a Synergistic Theoretical-Experimental Approach, <b>Rafael Mendoza-Pérez</b> , <b>Ricardo González-Campuzano</b> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>David E. Martínez-Lara</b> , 2Escuela Nacional Preparatoria No.7 "Ezequiel A. Chávez", Universidad Nacional Autónoma de México; <b>Roxana M. Calderón-Olvera</b> , <b>Josué E. Romero-Ibarra</b> , <b>Ignacio A. Figueroa-Vargas</b> , <b>Sandra E. Rodil-Posada</b> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México		
9:20am	<b>MA3-3-WeM-5</b> Effects of HiPIMS Plasma Ionization and Deposition Parameters on the Microstructure and Mechanical Properties of TiZrNbTaMo High Entropy Alloy Films, <b>Chia-Lin Li</b> , Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chemistry Division, Center for General Education, Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan	<b>IA2-1-WeM-5</b> Directed Energy Deposition of Bronze Coatings on Aluminium Substrates: Microstructure, Phase Evolution, and Process Optimization, <b>Christoph Witte</b> , <b>Claus-Henning Solterbeck</b> , University of Applied Science Kiel, Germany; <b>Hannes Freiße</b> , Kugler Bimetal SA, Switzerland; <b>Johannes Wiesheier</b> , <b>Thomas Rubenbauer</b> , Schlenk Metallic Pigments GmbH, Germany; <b>Andreas Ebert</b> , <b>Jürgen Barz</b> , Schmelzmetall Deutschland GmbH, Germany; <b>Jana Schloesser</b> , University of Applied Science Kiel, Germany	
9:40am	<b>MA3-3-WeM-6</b> Phase Formation, Microstructure and Selected Properties of Magnetron Sputtered Cr-Ta, Cr-Nb and Cr-v-Ta Thin Films, <b>Jan-Ove Soehngen</b> , <b>Vincent Ott</b> , <b>Sven Ulrich</b> , <b>Michael Stueber</b> , KIT, Germany	<b>IA2-1-WeM-6</b> Plasma Electrolytic Oxidation Coatings on Mg Alloy AE44 Prepared from Mixed Aluminate-silicate Electrolytes, <b>Tianyi Zhang (Student)</b> , <b>Ran Cai</b> , <b>Xueyuan Nie</b> , <b>Henry Hu</b> , Department of Mechanical, Automotive and Materials Engineering, University of Windsor, Canada	
10:00am	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>		<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
10:20am			
10:40am			
11:00am	<b>MA3-3-WeM-10</b> Overcoming Strength-Plasticity Trade-Off in Complex Concentrated Alloy Thin Films by Engineering Their Atomic and Microstructure, <b>Davide Vacirca</b> , <b>Arjun Curam</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Gregory Abadias</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Andrea Li Bassi</b> , Nanolab, Department of Energy, Politecnico di Milano, Italy; <b>Christian Ricolleau</b> , University of Paris, Laboratory of Matériaux et Phénomènes Quantiques, France; <b>Gerhard Dehm</b> , Max Planck Institute for Sustainable Materials, Germany; <b>Matteo Ghidelli</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France	<b>INVITED: IA2-1-WeM-10</b> Low-Adhesion Carbon Coatings for the Sustainable Utilization of Geothermal Power Plants, <b>Yuya Nakashima</b> , Fuji Electric Co., Ltd., Japan; <b>Noritsugu Umehara</b> , Nagoya University, Japan; <b>Hiroyuki Kousaka</b> , Gifu University, Japan; <b>Takayuki Tokoroyama</b> , Nagoya University, Japan; <b>Motoyuki Murashima</b> , Tohoku University, Japan	
11:20am	<b>MA3-3-WeM-11</b> Exploring the Microstructure and Mechanical Properties of CoCrFeNiMn Thin Films, <b>Thomas Astecker (Student)</b> , TU Wien, Austria; <b>Peter Polcik</b> , Plansee SE, Austria; <b>Alexander Kirnbauer</b> , <b>Paul Heinz Mayrhofer</b> , TU Wien, Austria		
11:40am	<b>MA3-3-WeM-12</b> Reactive Sputtering of CrMoNbWTiAgCx Carbide Films by High Power Impulse Magnetron Sputtering System: Effect of Ag and C Contents, <b>BengYan Lu (Student)</b> , <b>Yung-Chin Yang</b> , National Taipei University of Technology, Taiwan; <b>Chia-Lin Li</b> , Ming Chi University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan	<b>INVITED: IA2-1-WeM-12</b> Application-Driven Research in Surface Engineering for Advanced Cutting Tool and Component Applications - 25 years of cooperation between Plansee and Oerlikon -, <b>Peter Polcik</b> , <b>Szilard Kolozsvari</b> , Plansee Composite Materials GmbH, Germany; <b>Denis Kurapov</b> , Oerlikon Surface Solutions AG, Liechtenstein; <b>Helmut Riedl</b> , <b>Paul Heinz Mayrhofer</b> , Institute of Materials Science and Technology, TU Wien, Austria	
12:00pm			

# Wednesday Afternoon, April 22, 2026

Keynote Lectures

Room Town & Country A - Session KYL2-WeKYL

Keynote Lecture II

Moderator:

Sandra E. Rodil, Universidad Nacional Autónoma de México

1:00pm

**INVITED: KYL2-WeKYL-1** Nanoengineered Materials and Coatings for Medicine and Beyond,  
*Krasimir Vasilev*, Flinders University, Australia

1:20pm

# Wednesday Afternoon, April 22, 2026

<b>Functional Thin Films and Surfaces</b> <b>Room Palm 1-2 - Session MB1-WeA</b> <b>Optical Materials and Thin Films</b> <b>Moderators:</b> <b>Jiri Houska</b> , University of West Bohemia, Czechia, <b>Juan Antonio Zapien</b> , City University of Hong Kong		<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country B - Session PP2-2-WeA</b> <b>HiPIMS, Pulsed Plasmas, and Energetic Deposition II</b> <b>Moderators:</b> <b>Arutiun P. Ehasarian</b> , Sheffield Hallam University, UK, <b>Tetsushide Shimizu</b> , Tokyo Metropolitan University, Japan	
2:00pm	<b>INVITED: MB1-WeA-1</b> Ultrafast Phenomena in Optical Materials with fs Time-Resolved Spectroscopic Ellipsometry, <b>Shirly Espinoza</b> , ELI Beamlines. ELI ERIC, Czechia	<b>INVITED: PP2-2-WeA-1</b> Understanding the Hyper-Power Impulse Magnetron Discharge and related Arc Transition, <b>Tiberiu Minea</b> , Erwan Morel, Zakaria Belkaid, Adrien Revel, University of Paris-Saclay, France	
2:20pm			
2:40pm	<b>MB1-WeA-3</b> The Role of Contaminants in the Microstructural Evolution of Defects in Low-Emissivity Glazing at High Temperatures, <b>Phillip Rumsby (Student)</b> , Bill Baloukas, Oleg Zabeida, Ludvik Martinu, Polytechnique Montréal, Canada	<b>PP2-2-WeA-3</b> Plasma Characteristics, Microstructure, and Mechanical Properties of Tetrahedral Amorphous Carbon Thin Films Deposited by Time-Resolved High-Power Impulse Magnetron Sputtering with Synchronized Bias Control, <b>Fu-Sen Yang (Student)</b> , Yu-Lin Kuo, National Taiwan University of Science and Technology, Taiwan; <b>Chi-Lung Chang</b> , Ming Chi University of Technology, Taiwan, Republic of China	
3:00pm	<b>INVITED: MB1-WeA-4</b> Thermo-chromic VO <sub>2</sub> -Based Coating for Energy-Saving Smart Windows: Design and Scalable Synthesis, <b>Jaroslav Vlcek</b> , University of West Bohemia, Czechia	<b>PP2-2-WeA-4</b> Carbon Discharge Dynamics by Pulse Sequencing: Pulse Parameter Control in Multipulse Hipims, <b>Ryo Sakamoto</b> , <b>Tetsuhide Shimizu</b> , Tokyo Metropolitan University, Japan	
3:20pm		<b>INVITED: PP2-2-WeA-5</b> Understanding the Impact of Kinetic and Potential Ion Energies on Thin Film Structure Toward Low-Temperature Deposition, <b>Dmitry Kalanov</b> , <b>Andre Anders</b> , <b>Yeliz Unutulmazsoy</b> , Leibniz Inst. of Surface Eng. (IOM), Germany	
3:40pm	<b>INVITED: MB1-WeA-6</b> Designing Light-Active Thin Film Heterojunctions: Band Alignment and Layer Engineering for Efficient Photocatalysis, <b>Monserrat Bizarro</b> , UNAM, Mexico		

# Wednesday Afternoon, April 22, 2026

<b>Topical Symposium on Sustainable Surface Engineering</b> <b>Room Palm 5-6 - Session TS2-1-WeA</b> <b>Coatings and Surfaces for Renewable Energy Technology I</b> <b>Moderators:</b> <b>Arnaud Le Febvrier</b> , Uppsala University, Sweden, <b>Marcus Hans</b> , RWTH Aachen University, Germany		<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Room Town &amp; Country C - Session MC3-2-WeA</b> <b>Tribology of Coatings and Surfaces for Industrial Applications II</b> <b>Moderators: Osman Eryilmaz</b> , Argonne National Laboratory	
2:00pm		<b>INVITED: MC3-2-WeA-1</b> Tailoring and Designing High-Performance Carbon Coatings - Insides in Recent Developments and New Approaches for Tribological Applications, <b>Dominic Stangier</b> , Oerlikon Balzers Coating Germany GmbH, Germany	
2:20pm	<b>TS2-1-WeA-2</b> Strain Engineering of ScN Thin Film by HiPIMS and Its Effect on Optical, Electrical and Thermoelectric Properties, <b>Arnaud le Febvrier</b> , <b>Sanath Kumar Honnali</b> , Uppsala University, Angstrom Laboratory, Sweden; <b>Charlotte Poterie</b> , Universite de Poitiers-CNRS, France; <b>Tiago V. Fernandes</b> , <b>Robert Frost</b> , Uppsala University, Angstrom Laboratory, Sweden; <b>Vladyslav Rogoz</b> , Linköping University, Sweden; <b>Martin Magnuson</b> , Linköping University, Sweden; <b>Fabien Giovannelli</b> , Université de Tours, France; <b>Joaquim P. Leitão</b> , Universidade de Aveiro, Portugal; <b>Jean Francois Barbot</b> , Universite de Poitiers-CNRS, France; <b>Per Eklund</b> , Uppsala University, Angstrom Laboratory, Sweden		
2:40pm	<b>INVITED: TS2-1-WeA-3</b> 1D & 2D Material-Based Electronic Devices for Energy Harvesting and Sustainable Technology, <b>Elisabetta Dimaggio</b> , University of Pisa, Italy	<b>MC3-2-WeA-3</b> Advanced Coating and Surface Techniques in Modern Automotive Tribology, <b>Sung Chul Cha</b> , Hyundai Motor Group- Hyundai Kefico, Republic of Korea; <b>Kyoung Il Moon</b> , <b>Hae Won Yoon</b> , <b>Gi-Hoon Kwon</b> , KITECH, Republic of Korea; <b>Jongkuk Kim</b> , KIMS, Republic of Korea	
3:00pm		<b>MC3-2-WeA-4</b> Development and Evaluation of TiAlVSiCN Coatings for Automotive Applications, <b>Jianliang Lin</b> , Southwest Research Institute, San Antonio Texas, USA	
3:20pm	<b>TS2-1-WeA-5</b> Harnessing the mechanical and magnetic energy with PMN-PT/Ni-Mn-In-based flexible piezoelectric nanogenerator, <b>Satyam Shankhdhar (Student)</b> , Indian Institute of Technology Roorkee (IIT R), India	<b>MC3-2-WeA-5</b> New Carbon High Productivity / Low Temperature Coater with New Temperature Measurement and New Colour Coating, <b>Markus Esselbach</b> , Oerlikon, Liechtenstein	
3:40pm	<b>TS2-1-WeA-6</b> High Power Impulse Magnetron Sputtering of CoCrFeNiV High Entropy Alloy Thin Films for Enhanced Supercapacitor Applications, <b>Krishnakant Tiwari</b> , Ming Chi University of Technology, Taiwan; <b>Bih Show Lou</b> , Chang Gung University, Taoyuan, Taiwan; <b>Jyh Wei Lee</b> , Ming Chi University of Technology, Taiwan	<b>MC3-2-WeA-6</b> Evaluation of Boriding as a Post-Treatment to Improve the Thermal Stability and Tribological Performance of Weld-Repaired Tool Steels, <b>Cesar Resendiz Calderon</b> , <b>Leonardo Farfan Cabrera</b> , Tecnologico de Monterrey, Mexico; <b>Enrique Campos Silva</b> , Instituto Politecnico Nacional, Mexico; <b>Edgar Ravelo Santos</b> , <b>Mateo Roux Reyna</b> , <b>Sebastian Garcia Barragan</b> , Tecnologico de Monterrey, Mexico	

# Wednesday Afternoon, April 22, 2026

**Awards Ceremony and Honorary Lecture**  
**Room Town & Country A - Session HL-WeHL**  
**Bunshah Award Honorary Lecture**

5:45pm

**INVITED: HL-WeHL-1 RF Bunshah Awardee Honorary Lecture: “Chameleon” Adaptive Tribological Coatings: Lessons Learned and Future Outlook,**  
**Andrey A. Voevodin<sup>1</sup>, University of North Texas, USA**

6:05pm

<sup>1</sup> R.F. Bunshah Awardee Honorary Lecture

# Thursday Morning, April 23, 2026

<b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b> <b>Room Town &amp; Country C - Session CM2-1-ThM</b> <b>Advanced Mechanical-Physical Testing of Surfaces, Thin Films, Coatings and Small Volumes I</b> <b>Moderators: Hanna Bishara, Tel Aviv University, Israel, Matteo Ghidelli, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France</b>		<b>Functional Thin Films and Surfaces</b> <b>Room Palm 3-4 - Session MB2-3-ThM</b> <b>Thin Films for Emerging Electronic and Quantum Photonic Devices III</b> <b>Moderators: Jiri Capek, University of West Bohemia, Czechia, Spyros Kassavetis, Aristotle University of Thessaloniki, Greece</b>	
8:00am			
8:20am			
8:40am	<b>CM2-1-ThM-3</b> Ultra-High Vacuum Tribology: Industrial Relevance, Mechanisms, and Research Gaps, <b>Esteban Broitman, Sven Kelling, Rickmer Kose</b> , Sentys Inc., USA	<b>MB2-3-ThM-3</b> From Passive to Active Structurally Controlled Optical Coatings for Energy, Eyewear and Sensor Applications, <b>Bill Baloukas, Martin Crouan, Brandon Faceira, Aleksandra Pajak, Philip Rumsby (Student), Oleg Zabeida, Jolanta Klemberg-Sapieha, Ludvik Martinu</b> , Polytechnique Montréal,	
9:00am	<b>CM2-1-ThM-4</b> Atomic-Scale Revealing the Mechanical Response of Defect-Mediated Nitride Ceramics, <b>Zhang Zaoli</b> , Erich Schmid Institute, Austria; <b>Chen Zhuo, Yong Huang</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria	<b>MB2-3-ThM-4</b> Glancing Angle Deposition of WOx and Cu-doped TiO2 Thin Films for Improved Conductometric Gas Sensing, <b>Akash Kumar (Student)</b> , University of West Bohemia, NTIS, India; <b>Stanislav Haviar</b> , University of West Bohemia, NTIS, Czechia; <b>Nirmal Kumar</b> , University of West Bohemia, NTIS, India	
9:20am	<b>INVITED: CM2-1-ThM-5</b> Probing nanoscale deformation mechanisms in metastable metallic thin films using 4D-STEM, <b>Lukas Schretter (Student)</b> , Jürgen Eckert, Christoph Gammer, Austrian Academy of Sciences, Austria	<b>MB2-3-ThM-5</b> Sputter Coating of High-Quality Vo2 Metal-Insulator Transition Films for Flexible Electronics, <b>Juan Andres Hofer</b> , University of California San Diego, USA; <b>Ali C. Basaran</b> , General Atomics, USA; <b>Tianxing Damir Wang, Ivan K. Schuller</b> , University of California San Diego, USA	
9:40am			
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am	<b>INVITED: CM2-1-ThM-8</b> High-Speed Nanoindentation Mapping and Machine Learning as Enabling Technologies for Combinatorial Thin-Film Libraries, <b>Edoardo Bemporad</b> , Roma tre university, Italy; <b>Rostislav Daniel</b> , Montanuniversität Leoben, Leoben, Austria; <b>Edoardo Rossi</b> , Roma Tre University, Italy; <b>Michal Zitek</b> , Montanuniversität Leoben, Leoben, Austria; <b>Marco Sebastiani</b> , Roma Tre University, Italy	<b>MB2-3-ThM-8</b> - In Situ Electron-Beam-Induced Selective-Area Growth of Tellurium Films by Molecular Beam Epitaxy, <b>Ossie Douglas (Student)</b> , University of South Florida, USA; <b>Peter Snapp</b> , NASA Goddard Space Flight Center, USA; <b>Ali Ashraf</b> , University of South Florida, USA	
10:40am		<b>MB2-3-ThM-9</b> High Tunability in Crystallographic Design of Thin Films Enabled by Atomic Imprint Crystallization, <b>Koichi Tanaka</b> , Argonne National Laboratory, USA; <b>Xella Doi, Connor Horn, Chloe Tsang, Supratik Guha</b> , University of Chicago, USA	
11:00am	<b>INVITED: CM2-1-ThM-10</b> Deformation Twins, Kink Bands and Stacking Faults: Highlighting the Diversity and Complementarity of Deformation Mechanisms in the MAX Phase Cr <sub>2</sub> AlC Through Micromechanical Testing, <b>Christophe TROMAS, Mohamed AKOU</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Salomé PARENT</b> , institut pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Anne JOULAIN</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France	<b>MB2-3-ThM-10</b> Thin Film Processing Strategies for High-Throughput Autonomous Materials Discovery and Development, <b>Christopher Muratore</b> , University of Dayton, USA; <b>Brian Everhart, Drake Austin, Nicholas Glavin</b> , US Air Force Research Laboratory, USA	
11:20am		<b>INVITED: MB2-3-ThM-11</b> Designing Porosity for Function: Polymer-Templated Metal Oxides for Catalysis and Broadband, Wide-Angle Optics, <b>Elena V. Shevchenko</b> , University of Chicago, Argonne National Laboratory, USA; <b>Diana Berman</b> , University of North Texas, USA	
11:40am	<b>CM2-1-ThM-12</b> Analysis of the Mechanical Properties of APS Coatings Deposited on Agricultural Plough Components, <b>Boris Nazar</b> , Technical University of Moldova; <b>Fabian Cezar Lupu, Corneliu Munteanu, Viorel Goanta, Bogdan Istrate</b> , "Gheorghe Asachi" Technical University of Iasi, Romania; <b>Grigore Marian</b> , Technical University of Moldova; <b>Marcelin Benchea</b> , "Gheorghe Asachi" Technical University of Iasi, Romania		
12:00pm	<b>CM2-1-ThM-13</b> Thin Film Characterization by Ultrasonically Induced Nanofatigue During Nanoindentation, <b>Antanas Daugela</b> , Nanometronix LLC, USA		

# Thursday Morning, April 23, 2026

<p><b>Surface Engineering - Applied Research and Industrial Applications</b>  <b>Room Palm 1-2 - Session IA3-ThM</b>  <b>Innovative Surface Engineering for Advanced Cutting and Forming Tool Applications</b>  <b>Moderators:</b>  <b>Markus Esselbach</b>, Oerlikon Balzer, Liechtenstein,  <b>Fan-Yi Ouyang</b>, National Tsing Hua University, Taiwan</p>		<p><b>Surface Engineering of Biomaterials, Devices &amp; Regener-active Materials: Health, Food, &amp; Agriculture Applications</b>  <b>Room Town &amp; Country B - Session MD2-2-ThM</b>  <b>Coatings and Sensors for Health, Food and Agriculture: Antibacterial, Bioactive, and Flexible Interfaces II</b>  <b>Moderators: Valentim A.R. Barão</b>, University of Campinas (UNICAMP), Brazil,  <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France</p>	
8:00am	<p><b>IA3-ThM-1</b> Tool-Embedded Piezoresistive Thin-Film Sensors for Guide-Pad Normal Force Measurement in Deep Hole Drilling, <b>Martin Rekowski (Student)</b>, Fraunhofer IST, Germany; <b>Lucas Brause, Sebastian Michel</b>, TU Dortmund University ISF, Germany; <b>Anna Schott, Christoph Herrmann</b>, Fraunhofer IST, Germany; <b>Dirk Biermann</b>, TU Dortmund University ISF, Germany</p>	<p><b>MD2-2-ThM-1</b> Surface Modification of AZ31B by Oxygen-Plasma Immersion Ion Implantation to Promote Schwann Cell Interaction for Peripheral Nerve Regeneration, <b>Luciana Malvestiti (Student)</b>, Carlo Paternoster, Francesco Copes, LBB, CHU de Quebec research center, Laval University, Canada; <b>Paolo Mengucci, Giani Barucca</b>, Department SIMAU, Università Politecnica delle Marche, Ancona, Italy; <b>Silvia Ceré</b>, INTEMA-CONICET, Mar del Plata National University, Argentina; <b>Andranik Sarkissian</b>, Plasmionique Inc., Varennes, QC, Canada; <b>Diego Mantovani</b>, LBB, CHU de Quebec research center, Laval University, Canada</p>	
8:20am		<p><b>MD2-2-ThM-2</b> Multifunctional PEO-PPy/Zn Coatings Combined with Electrical Stimulation for Enhanced Antimicrobial and Osteogenic Titanium Surfaces, <b>Valentim A. R. Barão, Maria Helena R. Borges, Samuel Santana Malheiros, Julia M. Teodoro</b>, Univ. of Campinas (UNICAMP), Brazil; <b>João Gabriel S. Souza</b>, Guarulhos Univ. (UNG), Brazil; <b>Elidiane C. Rangel</b>, Sao Paulo State Univ. (UNESP), Brazil; <b>Ana Paula Souza, Bruna Egumi Nagay</b>, Univ. of Campinas, Brazil</p>	
8:40am	<p><b>INVITED: IA3-ThM-3</b> Development of in-Situ Cleaning Processes and Customized Coatings on Numismatic Coinage Dies for Minting Industry, <b>João Coroa, Alexander Gorupp, Parnia Navabpour, Giuseppe Sanzone, Hailin Sun</b>, Teer Coatings, UK</p>	<p><b>MD2-2-ThM-3</b> Effect of Zirconium Addition on Zn- and Mg-Based Thin Film Properties Deposited by Magnetron Sputtering for Intravascular Biodegradable Materials, <b>Fatiha Challali, Cristiano Poltronieri</b>, Lab des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Vinicius De Oliveira F. Sales, Carlos Henrique Michelin Beraldo, Carlo Paternoster</b>, Université Laval, Canada; <b>Frédéric Chaubet</b>, Univ Sorbonne Paris Nord, France; <b>Philippe Djemia</b>, Lab des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Diego Mantovani</b>, Univ Laval, Canada</p>	
9:00am		<p><b>MD2-2-ThM-4</b> Swelling Effect on Uhmwpe Cup: Long Term Consequences on Malfunctioning the Junction Head-Cup-Metal Back, <b>Jean Geringer, Albert Boyer</b>, Mines Saint-Etienne, France; <b>Bertrand Boyer</b>, Hopital Edouard Herriot - Hospices Civils de Lyon, France; <b>Frederic Farizon</b>, CHU Saint-Etienne, France</p>	
9:20am	<p><b>IA3-ThM-5</b> Machining of Hardened Steels under Dry Conditions: Wear Mechanisms of AlTiSiN and AlTiXN-TiSiZn (X, Z= nonmetal elements) Coatings, <b>Rong Zhao, Simon Evertz, Alexander Fehr, Markus Schenkel</b>, voestalpine eifeler Vacotec GmbH, Germany</p>	<p><b>MD2-2-ThM-5</b> Effect of Thermal Evaporation Deposited Silver Nanoparticles on the Antibacterial Behavior of Plasma Electrolytic Oxidation Coated AZ31B Magnesium Alloy, <b>Ming-Hsuan Chang (Student), Chuan=Ming Tseng</b>, Ming Chi University of Technology, Taiwan</p>	
9:40am	<p><b>IA3-ThM-6</b> Improving Injection Molding Process Performance of Recycled Plastics, <b>Yavor Sofronov, Georgi Todorov, Milko Angelov, Boyan Dochev, Antonio Nikolov, Valentin Mishev, Krum Petrov, Rayna Dimitrova, Milko Yordanov</b>, Technical University of Sofia, Bulgaria; <b>Krassimir Marchev</b>, Technical University of Sofia, USA</p>		
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am		<p><b>INVITED: MD2-2-ThM-8</b> Dislocation-Mediated Plasticity and Strain Localization in Transition Metal Nitrides: Insights from Micropillar Compression, <b>Rainer Hahn</b>, CDL-SEC, TU Wien, Austria; <b>Peter Polcik, Szilard Kolozsvari</b>, Plansee Composite Materials GmbH, Germany; <b>Klaus Boebel</b>, Oerlikon Surface Solutions AG, Liechtenstein; <b>Helmut Riedl</b>, CDL-SEC, TU Wien, Austria</p>	
11:00am	<p><b>IA3-ThM-10</b> Over 30 Years of PVD Aluminium-Oxide Based Hard Coatings in Demanding Industrial Applications, <b>Philipp Immich, Louis Tegelaers, Julia Janowitz, Daniel Barnholt</b>, IHI Hauzer Techno Coating B.V., Netherlands; <b>Rolf Schäfer, Tobias Radny</b>, Robeko GmbH &amp; Co. KG, Germany; <b>Thomas Schütte</b>, PLASUS GmbH, Germany</p>	<p><b>MD2-2-ThM-10</b> Biofunctional Zinc Phosphate-Loaded Membranes as a Potential Anti-Biofilm and Remineralizing Approach for Caries Management, <b>Gina Prado-Prone, Lorena Reyes-Carmona, Lizeth A. González-Vargas</b>, Universidad Nacional Autónoma de México; <b>Phaedra S. Silva-Bermudez</b>, Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; <b>Sandra E. Rodil</b>, Universidad Nacional Autónoma de México; <b>Nicola Cioffi</b>, Università degli Studi di Bari Aldo Moro, Italy; <b>Camila A. Zamperini Zamperini</b>, University of Illinois Chicago; <b>Argelia Almaguer-Flores</b>, Universidad Nacional Autónoma de México</p>	
11:20am	<p><b>IA3-ThM-11</b> Sputtered CrN-based coating concepts for plastic injection molding, <b>Alexander Fehr</b>, Voestalpine eifeler Vacotec, Germany</p>	<p><b>MD2-2-ThM-11</b> Growth Mechanism and Cellular Response to Film Thickness Variations of Nanoporous Alkaline Titanate-Converted, Magnetron Sputtered Ti Thin Films, <b>Matthew Wadge</b>, Manchester Metropolitan University, UK; <b>Kozim Midkhatov</b>, Univ. of Manchester, UK; <b>Jonathan Wilson, Louise Briggs, Timothy Cooper, Zakhar Kudrynskiy</b>, Univ. of Nottingham, UK; <b>Reda Felfel</b>, University of Strathclyde, UK; <b>Ifty Ahmed, Colin Scotchford, David Grant</b>, Univ. of Nottingham, UK; <b>Justyna Kulczyk-Malecka</b>, Manchester Metropolitan University, UK; <b>Mahetab Amer</b>, Univ. of Manchester, UK; <b>Peter Kelly</b>, Manchester Metropolitan Univ., UK</p>	
11:40am	<p><b>IA3-ThM-12</b> Study on Multilayer Thick ta-C Coating Process on Cutting Tools for CFRP Machining Using Filtered Cathodic Vacuum Arc Deposition, <b>Jongkuk Kim, Jae-Il Kim, Young-Jun Jang</b>, Korea Institute of Materials Science, Republic of Korea</p>	<p><b>MD2-2-ThM-12</b> Antibacterial Performance of Electrodeposited Copper Coatings on Titanium Alloy Surfaces for Biomedical Applications, <b>Bryan Angel Zárate Verduzco (Student)</b>, Universidad Michoacana de San Nicolás de Hidalgo, Mexico; <b>Victor Manuel Solorio García, Miguel Ivan Dávila Perez</b>, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, Mexico; <b>Roberto Guerra González, Sandra Edith Lopez Castañeda, Alfonso Lemus Solorio, Maria Guadalupe Carreon Garcidueñas</b>, Universidad Michoacana de San Nicolás de Hidalgo, Mexico</p>	
12:00pm	<p><b>IA3-ThM-13</b> Enhanced Fe and Ni bonded NbC Laser Surface Engineered Hardmetals: Alternative Cutter Materials for Electric Vehicle Applications, <b>Rodney Genga</b>, University of the Witwatersrand, South Africa; <b>Suzan Conze, Lutz-Michael Berger, Johannes Pötschke</b>, IKTS Fraunhofer Institute, Germany; <b>Julien Witte, Dirk Schroepfer</b>, BAM Berlin, Germany; <b>Adam Čermák, Pavel Zeman</b>, Czech Technical Univ. in Prague, Czech Republic; <b>Sinoyolo Ngongo, Arno Janse van Vuuren</b>, Nelson Mandela Univ., South Africa</p>	<p><b>MD2-2-ThM-13</b> Low-Pressure Plasma Processes for the Deposition of Adherent Diamond-Like Carbon Coatings on Titanium Alloys for Biomedical Applications, <b>Chloé Audet, Pascale Chevallier</b>, Laval University, Canada; <b>Sandra Rubio</b>, University of Namur, Belgium; <b>Andranik Sarkissian</b>, Plasmionique Inc., Canada; University of Namur, Belgium; <b>Diego Mantovani</b>, Laval University, Canada</p>	

# Thursday Morning, April 23, 2026

<b>Topical Symposium on Sustainable Surface Engineering</b> <b>Room Town &amp; Country D - Session TS2-2-ThM</b> <b>Coatings and Surfaces for Renewable Energy Tech II</b> <b>Moderators:</b> <b>Arnaud le Febvrier</b> , Uppsala University, Sweden, <b>Marcus Hans</b> , RWTH Aachen University, Germany	
8:00am	<b>INVITED: TS2-2-ThM-1</b> Energy-Efficient Hydrogen Production via Urea-Assisted Electrolysis Enabled by Linker-Engineered NiCo MOFs, <b>Thi Xuyen Nguyen</b> , <i>Hui-Chuan Chen, Jyh-Ming Ting</i> , National Cheng Kung University, Taiwan
8:20am	
8:40am	<b>TS2-2-ThM-3</b> Low-Cost, High-Performance Flexible Supercapacitors Based on Vanadium Oxynitride Reactively Sputtered on Porous Polymeric Substrate for Sustainable Energy Storage Applications, <b>Habeebur Rahman (Student)</b> , <i>Davinder Kaur</i> , Indian Institute of Technology Roorkee, India
9:00am	<b>TS2-2-ThM-4</b> Optimization of Tunable Interfacial Engineering in WO <sub>x</sub> /α-Fe <sub>2</sub> O <sub>3</sub> Heterostructures via Dc Magnetron Sputtering for Enhanced PEC Activity and Carrier Transport Efficiency, <b>Carlos Gomes (Student)</b> , <i>Mariane Murase Murase, Matheus Torres, Douglas Leite, Rodrigo Pessoa, Argemiro Sobrinho, André Pereira</i> , Instituto Tecnológico de Aeronáutica, Brazil
9:20am	<b>TS2-2-ThM-5</b> Thermal Treatment Effects on the Structural and Optoelectronic Properties of Nb <sub>2</sub> O <sub>5</sub> Thin Films Deposited by DC Magnetron Sputtering, <i>Rodrigo Prado Medeiros Leite da Silva, Natali da Silva Barbosa, Bianca Sartori</i> , Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, Brazil; <i>Lucas Diniz Araujo</i> , Aeronautics Institute of Technology (ITA), Brazil; <i>Carlos Eduardo Gomes</i> , Instituto Federal de Educação, Ciência e Tecnologia de São Paulo, Brazil; <i>Filipe Caldato Dalan, André Luis de Jesus Pereira, Argemiro Soares da Silva Sobrinho</i> , Aeronautics Institute of Technology (ITA), Brazil
9:40am	
10:00am	<b>BREAK</b>
10:20am	<b>TS2-2-ThM-8</b> Interface-Driven Evolution and Electrochemical Behavior of CuO/WO <sub>x</sub> Heterostructures Deposited by Magnetron Sputtering, <i>Rafael Leal, Giovana Fazenda, Helen Barros, David Graves, Filipe Dalan, Mariane Murase, Marcilene Gomes</i> , Aeronautics Institute of Technology (ITA), Brazil; <i>Douglas Leite</i> , Aeronautics Institute of Technology, Brazil; <i>Argemiro Silva-Sobrinho, André Pereira</i> , Aeronautics Institute of Technology (ITA), Brazil
10:40am	<b>TS2-2-ThM-9</b> Unlocking the Potential of Medium-Entropy Prussian Blue for Superior Electro-Fenton Oxidation, <b>Sheng-Wei Lin (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan
11:00am	<b>TS2-2-ThM-10</b> Non-Precious Metal Phosphide/Sulfide Heterostructure Electrocatalyst for SOR, <b>Jian-An Wu (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan
11:20am	<b>TS2-2-ThM-11</b> Defect-Engineered Copper-Based Materials for Electrocatalytic Nitrate Reduction, <b>Ting-Chun Hung (Student)</b> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan
11:40am	
12:00pm	

# Thursday Afternoon, April 23, 2026

Keynote Lectures

Room Town & Country B - Session KYL3-ThKYL

Keynote Lecture III

Moderator:

Sandra E. Rodil, Universidad Nacional Autónoma de México

12:40pm

**INVITED: KYL3-ThKYL-1** Compressive Stress as Creative Force: Engineering Ultrahard Hydrogen-Free Carbon for a Diamond-Like Properties,  
**David R. McKenzie**, University of Sydney, Australia

1:00pm

# Thursday Afternoon, April 23, 2026

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Town &amp; Country C - Session CM3-3-ThA</b>  <b>Data-Driven Thin Film Design: High-Throughput Experimentation, Simulation, and Machine Learning III</b>  <b>Moderators:</b>  <b>Kevin Kaufmann</b>, Oerlikon, USA,  <b>Sebastian Siol</b>, Empa, Switzerland</p>		<p><b>Plasma and Vapor Deposition Processes</b>  <b>Room Town &amp; Country B - Session PP3-ThA</b>  <b>CVD, ALD, and Laser-based Deposition &amp; Microfabrication Technologies</b>  <b>Moderators:</b>  <b>Carles Corbella</b>, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park,  <b>Frederic Mercier</b>, CNRS, Grenoble-INP, University Grenoble Alpes, SIMaP laboratory, France</p>	
1:20pm	<p><b>INVITED: CM3-3-ThA-1</b> Transforming Thin-Film Research Through Autonomous Experimentation: From Synthesis to Long-Term Device Performance, <b>Davi Febba</b>, <b>Brooks Tellekamp</b>, <b>William Callahan</b>, <b>Andriy Zakutayev</b>, National Renewable Energy Laboratory, USA</p>		
1:40pm			
2:00pm	<p><b>CM3-3-ThA-3</b> HiPIMS Process-Optimization in an Autonomous Sputter Chamber via Active Learning, <b>Alexander Wieczorek</b>, <b>Nathan Rodkey</b>, <b>Sebastian Siol</b>, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland</p>	<p><b>INVITED: PP3-ThA-3</b> Unveiling the Potential of Transparent Conductive Materials by Atomic/Molecular Layer Deposition: From Process Synthesis to Functionalization, <b>Abderrahime Sekkat</b>, Univ. Toulouse, CNRS, Toulouse INP, LGC, Toulouse, France., France</p>	
2:20pm	<p><b>INVITED: CM3-3-ThA-4</b> Accelerating Experiments with AI and Automation: Powder Materials and their Compositional Characterization, <b>Andrea Giunto</b>, <b>Yuxing Fei</b>, <b>Bernardus Rendy</b>, Lawrence Berkeley Lab, University of California, Berkeley, USA; <b>Pragnay Nevatia</b>, University of California at Berkeley, USA; <b>Nathan Szymanski</b>, <b>Gerbrand Ceder</b>, Lawrence Berkeley Lab, University of California, Berkeley, USA</p>		
2:40pm		<p><b>INVITED: PP3-ThA-5</b> In-Plasma XPS: a New Metrology Tool for Semiconductor Process Development and Control, <b>Andrei Kolmakov</b>, NIST-Gaithersburg, USA</p>	
3:00pm	<p><b>INVITED: CM3-3-ThA-6</b> Autonomous Experimentation with Quality Control and Cross-Facility Coordination, <b>Yongtao Liu</b>, Oak Ridge National Laboratory, USA</p>		
3:20pm		<p><b>PP3-ThA-7</b> Ultrathin SiN<sub>x</sub> Membrane Stability Under Energy Fluxes from Non-Thermal Plasma Discharges Monitored via Nanocalorimetry, <b>Carles Corbella</b>, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; <b>Feng Yi</b>, <b>Andrei Kolmakov</b>, National Institute of Standards and Technology (NIST), USA</p>	
3:40pm	<b>BREAK</b>	<b>BREAK</b>	
4:00pm	<p><b>INVITED: CM3-3-ThA-9</b> Self-Navigating Thin Film Laboratory: Real-Time AI-Driven Optimization of Functional Thin Films, <b>Ichiro Takeuchi</b>, University of Maryland, USA</p>		
4:20pm			
4:40pm	<p><b>CM3-3-ThA-11</b> Advances in the Rapid Characterization of Sputter-Deposited, Binary Metal Thin Films Made by Combinatorial Techniques, <b>David Adams</b>, <b>Finley Haines</b>, <b>Sadhvikas Addamane</b>, <b>Kyle Dorman</b>, <b>Remi Dingreville</b>, <b>Saaketh Desai</b>, <b>Brad Boyce</b>, <b>Mark Rodriguez</b>, Sandia National Laboratories, USA</p>		

# Thursday Afternoon, April 23, 2026

<p><b>Plasma and Vapor Deposition Processes</b>  <b>Room Palm 1-2 - Session PP4-ThA</b>  <b>Greybox Models for Wear Prediction</b>  <b>Moderators:</b>  <b>Philipp Immich</b>, IHI Hauzer Techno Coating B.V., Netherlands</p>		<p><b>Surface Engineering - Applied Research and Industrial Applications</b>  <b>Room Town &amp; Country D - Session IA2-2-ThA</b>  <b>Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications II</b>  <b>Moderators: Miha Cekada</b>, Jozef Stefan Institute, Slovenia,  <b>Satish Dixit</b>, Plasma Technology Inc., USA</p>
1:20pm		
1:40pm	<p><b>PP4-ThA-2</b> Integrating Tribological Descriptors and Physics-Informed Modelling for Tool Wear Prediction in PVD Coated Milling Tools, <b>Amod Kashyap</b>, Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (<math>\mu</math>TC), Karlsruhe Institute of Technology, Germany; <b>Amirmohammad Jamali</b>, Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany; <b>Finn Rumenapf</b>, <b>Nelson Filipe Lopes Dias</b>, <b>Wolfgang Tillmann</b>, Institute of Materials Engineering (LWT), TU Dortmund University, Germany; <b>Johannes Schneider</b>, Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (<math>\mu</math>TC), Karlsruhe Institute of Technology, Germany; <b>Michael Stueber</b>, Institute for Applied Materials (IAM-AWP), Karlsruhe Institute of Technology, Germany; <b>Volker Schulze</b>, Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany</p>	<p><b>INVITED: IA2-2-ThA-2</b> From Development to Series Production in Automotive – The Role of Coating Characterization, <b>Nazlim Bagcivan</b>, Schaeffler Technologies GmbH &amp; Co. KG, Germany</p>
2:00pm	<p><b>INVITED: PP4-ThA-3</b> Discovering Hard, Conductive Films via Combinatorial High-Throughput Multimodal Characterization and Machine Learning, <b>Brad Boyce</b>, Sandia National Laboratories, USA</p>	
2:20pm		<p><b>IA2-2-ThA-4</b> Investigation of Salt Solution Drying Behavior to Improve Coating Performance for Marine Turbomachinery, <b>Sadikshya Pandey (Student)</b>, <b>David Poerschke</b>, University of Minnesota, USA</p>
2:40pm	<p><b>PP4-ThA-5</b> Influence of Temperature- Dependent Mechanical Properties on Tool Load in Cutting, <b>Christian Kalscheuer</b>, <b>Kirsten Bobzin</b>, <b>Xiaoyang Liu</b>, Surface Engineering Institute - RWTH Aachen University, Germany; <b>Benjamin Bergmann</b>, <b>Berend Denkena</b>, <b>Nico Junge</b>, Institute of Production Engineering and Machine Tools, Hannover, Germany</p>	<p><b>INVITED: IA2-2-ThA-5</b> Enhancing Mechanisms for the Increased Performance of Nuclear Energy and Aerospace Coating- and Solid-RHEA Components, <b>Sal Rodriguez</b>, 11251 Pino Ave. NE, USA; <b>Satish Dixit</b>, Plasma Technology Inc., USA; <b>Nima Fathi</b>, Texas A&amp;M University, USA</p>
3:00pm		
3:20pm		<p><b>IA2-2-ThA-7</b> Element-Resolved Investigation of Zr-Based Conversion Coatings on Aluminum and Zinc Alloy Substrates by AESEC and GD-OES, <b>Suyeon Lee</b>, <b>Alice Stankova</b>, <b>Patrick Chapon</b>, HORIBA Europe Research Center, France; <b>Kayvon Savaadkouei</b>, HORIBA, USA; <b>Junsoo Han</b>, Sorbonne University, France; <b>Dominique Thierry</b>, <b>Dan Persson</b>, Research Institutes of Sweden; <b>Kevin Ogle</b>, <b>Borhan Sultan</b>, Chimie Paris Tech, France</p>
3:40pm	<b>BREAK</b>	<b>BREAK</b>
4:00pm		<p><b>IA2-2-ThA-9</b> DLC Coatings for Space Applications , <b>Konrad Fadenberger</b>, Oerlikon Balzers Coating Germany GmbH, Germany; <b>Roland Holzbauer</b>, Aerospace &amp; Advanced Composites GmbH, Austria; <b>Giulio Feliziani</b>, Oerlikon Balzers Coating Italy S.p.A., Italy; <b>Sebastien Guimond</b>, <b>Martin Drabik</b>, <b>Andreas Stadlberger</b>, <b>Julien Keraudy</b>, Oerlikon Surface Solutions AG Pfaffikon, Liechtenstein; <b>Igor Larranaga</b>, Oerlikon Balzers Coating Spain S.A.U, Spain</p>
4:20pm		<p><b>IA2-2-ThA-10</b> Solid Particle Erosion Mechanisms of Organic Matrix Composites With and Without Protective Coatings, <b>Veronika Simova</b>, <b>Etienne Bousser</b>, Polytechnique Montreal, Canada; <b>Marjorie Cavarroc</b>, Safran Tech, France; <b>Juan Manuel Mendez</b>, MDS Coating Technologies, Canada; <b>Ludvik Martinu</b>, <b>Jolanta Ewa Klemberg-Sapieha</b>, Polytechnique Montreal, Canada</p>
4:40pm		

# Thursday Afternoon, April 23, 2026

<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Room Palm 3-4 - Session MC1-1-ThA</b> <b>Friction, Wear, Lubrication Effects, &amp; Modeling I</b> <b>Moderators:</b> <b>Klaus Boebel, Oerlikon Balzers, Liechtenstein</b>		
1:20pm	<b>MC1-1-ThA-1</b> Tribological Behavior of New and Green Surface Treatments of Anodized Aluminum Alloys, <i>Marc Schmittbuhl</i> , Ecole Centrale de Lyon - LTDS, France; <i>Gilles Auregan, Jacoboni Alex</i> , Safran Landing Systems, France; <i>Joffrey Tardelli</i> , IRT-M2P, France; <b>Marjorie Cavarroc-Weimer</b> , Safran Tech, France; <i>Vincent Fridrici</i> , Ecole Centrale de Lyon - LTDS, France	
1:40pm	<b>INVITED: MC1-1-ThA-2</b> Mapping Property Spaces of Combinatorially Deposited Nanocrystalline Alloy Coatings, <i>John Curry, Frank DelRio, Tomas Babuska, Justin Hall, Kyle Dorman, David Adams, Nathan Brown, David Montes de Oca Zapiain, Scotty Bobbitt, Michael Chandross</i> , Sandia National Laboratories, USA; <i>Filippo Mangolini, Camille Edwards</i> , University of Texas at Austin, USA	
2:00pm		
2:20pm	<b>MC1-1-ThA-4</b> From Green Lubricant to Liquid Precursor for Hard, Multi-Functional Coatings, <b>Mohammad Eskandari (Student)</b> , <i>Diana Berman, Ali Zayaan Macknojia</i> , University of North Texas, USA	
2:40pm	<b>INVITED: MC1-1-ThA-5</b> Promise and Pitfalls of Tribological Coatings in Electric Vehicle Applications, <b>Ali Erdemir</b> , <i>Gugyeong Sung, Seungjoo Lee, Merve Komurlu, Henry Papesh, Cagatay Yelkarasi</i> , Texas A&M University, USA; <i>Leonardo Farfan</i> , Tecnologico de Monterrey, Mexico	
3:00pm		
3:20pm	<b>MC1-1-ThA-7</b> Behavior of Nb-Doped Molybdenum Disulfide Coatings Under Electrified Tribological Tests, <i>Miguel Rubira Danelon</i> , University of São Paulo, Brazil; <i>Newton Kiyoshi Fukumasu</i> , Institute of Technological Research, Brazil; <b>Roberto Martins de Souza</b> , <i>André Paulo Tschiptschin</i> , University of São Paulo, Brazil	
3:40pm	<b>BREAK</b>	
4:00pm	<b>MC1-1-ThA-9</b> Calibrated Friction Measurements Using a New Interferometric Atomic Force Microscope, <b>Joel Lefever</b> , <i>Aleksander Labuda, Roger Proksch</i> , Oxford Instruments, USA	
4:20pm	<b>INVITED: MC1-1-ThA-10</b> Effects of Mo–N–Cu Doping on Microstructural, Mechanical, and Tribological Properties of Thick Ta–C Coatings for Cryogenic Applications, <b>Young-Jun Jang</b> , <i>Jae-Il Kim, Ji-Woong Jang, Jongkuk Kim</i> , Korea Institute of Materials Science (KIMS), Republic of Korea	
4:40pm		

## Advanced Characterization, Modelling and Data Science for Coatings and Thin Films

### Room Town & Country A - Session CM-ThP

## Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Poster Session

5:00 – 7:00pm

**CM-ThP-1** Artificial Intelligence for Predictive Design of Semiconducting Thin Films: Bandgap, Conductivity, and Activation Energy in Se–Sb–In Alloys, *Maninder Kamboj, Farah Mohammadi*, Toronto Metropolitan University, Canada

**CM-ThP-3** Active-Learning M3GNet-Accelerated Multiscale Pipeline for ALD/ALE Thin-Film Descriptors, *Fedor Goumans, Nestor Aguirre, Nicolas Onofrio*, Software for Chemistry & Materials, Netherlands

**CM-ThP-4** Elastic Anisotropy and Stiffness Tensor Determination in TiN Thin Films, *Rainer Hahn*, CDL-SEC, TU Wien, Austria; *Rebecca Janknecht*, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; *Nikola Koutna*, TU Wien, Institute of Materials Science and Technology, Austria; *Anna Hirle*, CDL-SEC, TU Wien, Austria; *Anton Davydok*, Helmholtz-Zentrum Hereon, Germany; *Klaus Boebel*, Oerlikon Surface Solutions AG, Liechtenstein; *Szilard Kolozsvári, Peter Polcik*, Plansee Composite Materials GmbH, Germany; *Christina Krywka*, Helmholtz-Zentrum Hereon, Germany; *Paul H. Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria; *Helmut Riedl*, CDL-SEC, TU Wien, Austria

**CM-ThP-5** Hypulse XPSFemtoSecond Laser Ablation XPS Depth Profiling, *James Lallo*, Thermo Fisher Scientific, USA; *Tim Nunney, Robin Simposn*, Thermo Fisher Scientific, UK; *Mark Baker, Charlie Chandler*, University of Surrey, UK

**CM-ThP-6** Conditions for the Atom-by-Atom Growth of Maximum-Quality Thin Films, with a Focus on Ti–Al–N, *Jiri Houska, Hassan Ataaitte*, University of West Bohemia, Czechia

**CM-ThP-7** AI-Optimized Afterglow Functional Coatings for Enhanced Plant-Based Carbon Capture, *Yu-An Chen, Amit Kumar Sharma*, National Cheng Kung University, Taiwan; *Fei Pan*, ETH Zürich, Switzerland; *Yen-Hsun Su*, National Cheng Kung University, Taiwan

**CM-ThP-8** Development of an Electrical Waste Plastic Sorting System Using Laser-Induced Breakdown Spectroscopy and Convolutional Neural Networks, *Guan Wen Chen (Student)*, *Tsung-Yu Huang*, Department of Materials Engineering, Ming Chi University of Technology, Taiwan

**CM-ThP-9** Corrosion Resistance of Titanium Boride (TiB<sub>x</sub>) Layers Formed on the Biomedical Ti6Al4V Alloy in Simulated Body Fluid, *Tania Cabrera-Yacuta (Student)*, Instituto Politécnico Nacional, Mexico; *J. Pérez-Alvárez, C. D. Rivera-Tello*, Universidad de Guadalajara, Mexico; *G. A. Rodríguez-Castro*, Instituto Politécnico Nacional, Mexico; *J.G. Quiñones-Galván*, Universidad de Guadalajara, Mexico; *A. Meneses-Amador, H. Martínez-Gutiérrez*, Instituto Politécnico Nacional, Mexico

**CM-ThP-10** Rapid Thickness Quantification of Coating Layers Using PLSR and Parallel Rietveld Analysis of XRD Data, *Thomas Degen, Mustapha Sadki, Nicholas Norberg*, Malvern Panalytical, Netherlands; *Namsoo Shin*, Deep Solution Inc., Korea (Democratic People's Republic of)

**CM-ThP-11** Investigation of Epitaxial Silicon Growth Mechanisms from Chlorosilane–H<sub>2</sub> Systems on Si(100) Substrates, *Seokmin Oh (Student)*, *Dongmin Yoon, Seonwoong Jung, Hyerin Shin, Jungwoo Kim, Dae-Hong Ko*, Yonsei University, Republic of Korea

**CM-ThP-12** Machine-Learning Based Prediction of Carbon Quantum Dot Fluorescent Properties Using Molecular Representations, *Yehyeon Shin (Student)*, *Jong-souk Yeo, Chae-won Lee, Jong-Seok Lee*, Yonsei University, Korea

**CM-ThP-13** Structural and Morphological Assessment of a Si/SiO<sub>2</sub>/Cr/Au Thin-Film Electrode Stack via Correlative AFM with SEM & EDX, *Satyam Ladva*, Quantum Design, USA

## Functional Thin Films and Surfaces

### Room Town & Country A - Session MB-ThP

## Functional Thin Films and Surfaces Poster Session

5:00 – 7:00pm

**MB-ThP-2** Scalable Surface Engineering of PDMS for Uniform Inkjet-Printed Silver Patterns, *Hsuan-Ling Kao*, Chang Gung University, Taiwan; *Li-Chun Chang*, Ming Chi University of Technology, Taiwan; *Min-Hsuan Lu*, Chang Gung University, Taiwan

**MB-ThP-4** Spatially Resolved Molecular Arrangement on the Surface of PEDOT:PSS Film via Laser Scanning, *Chanwoo Kim, Habeom Lee*, Pusan National University, Republic of Korea

**MB-ThP-5** Influence of the Si Alloying on the Growth Stability and Electrical Properties of AlN Thin Films, *Norma Salvadores Farran (Student)*, *Tomasz Wojcik*, TU Wien, Austria; *Astrid Gies, Jürgen Ramm, Klaus Böbel*, Oerlikon Balzers, Liechtenstein; *Szilard Kolozsvári, Peter Polcik*, Plansee Composite Materials, Austria; *Tobias Huber, Jürgen Fleig, Helmut Riedl*, TU Wien, Austria

**MB-ThP-8** Different Morphologies of Gallium Oxide Thin Films Fabricated by Liquid-Target Reactive DC-Pulsed Magnetron Sputtering, *Jan Koloros (Student)*, *Petr Novák, Sayed Alireza Ataie, Jiří Rezek, Radomír Čerstvý, Pavel Baroch*, University of West Bohemia in Pilsen, Czechia

**MB-ThP-10** 3-Layer Polymer Film Composites Based on PE Recyclates, *Marcin Bilewicz, Tomasz Tanski*, SILESIA UNIVERSITY OF TECHNOLOGY, Poland; *Tomasz Gliniski*, Sinoma, Poland

**MB-ThP-11** Plasma-Polymer Fluorocarbon Based High Sensitivity Surface Enhanced Raman Spectroscopy Application, *Jimin Han, Sang-Jin Lee*, Chungbuk National University, Republic of Korea

**MB-ThP-12** Radio Frequency Magnetron Sputtered CdS-Plasma Polymerized Fluorocarbon Nanocomposite Thin Films : Structural Properties and Electrochemical Performance for Lithium-Ion Battery Anodes, *Joowon Lee (Student)*, *Sang-Jin Lee*, Chungbuk National University School of Semiconductor Engineering, Republic of Korea

**MB-ThP-13** Synthesis of Bismuth Molybdate Photocatalytic Films by Reactive Magnetron Sputtering for the Photo-Discoloration of Carmine Indigo Dye, *Ricardo González-Campuzano*, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; *David E. Martínez-Lara*, Escuela Nacional Preparatoria No.7 “Ezequiel A. Chávez”, Universidad Nacional Autónoma de México; *Agileo Hernández-Gordillo, Monserrat Bizarro-Sordo, Sandra E. Rodil-Posada*, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México

**MB-ThP-14** Microstructure and Electrochemical Behavior of Aps Coatings Deposited on Agricultural Plows, *Corneliu Munteanu, Bogdan Istrate*, “Gheorghe Asachi” Technical University of Iasi, Romania; *Boris Nazar*, Technical University of Moldova; *Fabian Cezar Lupu, Ramona Cimpoesu, Gelu Ianus*, “Gheorghe Asachi” Technical University of Iasi, Romania; *Teodor Marian*, Technical University of Moldova

**MB-ThP-15** Influence of Microstructure on Dealloying Kinetics of Nanoporous Thin Films, *Ezgi Hatipoğlu*, Max Planck Institute for Sustainable Materials, Germany; *Ayman El-Zoka*, Imperial College London, UK, Germany; *Yujun Zhao*, Max Planck Institute for Sustainable Materials, Germany; *Stanislav Mraz, Jochen Schneider*, RWTH Aachen University, Germany; *Baptiste Gault, Aparna Saksena*, Max Planck Institute for Sustainable Materials, Germany

**MB-ThP-17** Effect of UHTC Nanoparticle-Reinforced Micro Arc Oxidation Composite Coatings on the Surface Performance of Al 2024 Alloy, *Suleyman Sukuroglu, Ebru Emine Sukuroglu*, Gumushane University, Turkey

**MB-ThP-18** Ion-Beam Assisted Deposition of Oxide Semiconductor Thin Films for Optical Devices, *Pin Yao Hsiang (Student)*, Chang Gung University, Taiwan; *Tsung Yu Huang*, Ming Chi University of Technology, Taiwan, Republic of China

**MB-ThP-19** Insulation Coatings for Temperature Sensors in Molding Tools, *Martin Welters, Rainer Cremer*, KCS Europe GmbH, Germany

**MB-ThP-20** Corrosion-Inhibiting, Antibacterial Coatings for Soft Tissue Anchors, *Simon Cremer, Rainer Cremer*, KCS Europe GmbH, Germany

**MB-ThP-21** Partial Laser Ablation in PVD Multilayers for Multicolored and Nanostructured Surfaces, *Raphael André*, Berner Fach Hochschule, Switzerland; *Christian Petitot*, Université Marie et Louis Pasteur, UTBM, CNRS, Institut FEMTO-ST (UMR 6174), France; *Rainer Kling, Sylvain Le coutre*, Berner Fach Hochschule (BFH), Switzerland; *Pascal briois*, Université Marie et Louis Pasteur, UTBM, CNRS, Institut FEMTO-ST (UMR 6174), France

**MB-ThP-23** Numerical Modelling for Optimized Experimental Design in Vernier Ellipsometry Sensing, *Kawshik Shikder, Zhang Yun, Md Rashedul Huqe, Yishu Foo, May Thawda Phoo, Yee Man Kwong, Juan Antonio Zapien*, City University of Hong Kong

**MB-ThP-24** Selective Etching of Boron Doped Si1-XGeX Epitaxial Layers for Vertically Stacked Memory Device, *Joosung Kang (Student)*, *Dongmin Yoon, Seonwoong Jung, Dae-hong Ko*, Yonsei University, Republic of Korea

## Plasma and Vapor Deposition Processes

### Room Town & Country A - Session PP-ThP

#### Plasma and Vapor Deposition Processes Poster Session

5:00 – 7:00pm

**PP-ThP-3** Predictive Modelling of Magnetron Sputtering: Bridging Computational and Experimental Approaches for Metallic Glass Thin Films, *Jaroslav Zenisek, Tereza Schmitdova*, Masaryk University, Czechia; *Antonin Kubicek, Vjaceslav Sochora*, SHM, Czechia; *Pavel Soucek*, Masaryk University, Czechia

**PP-ThP-4** How to Predict the Deposition Rate During Reactive Sputtering Using an One-Volume Reference Resource?, *Diederik Depla*, Ghent University, Belgium

**PP-ThP-5** Properties and Behavior of Infrared Materials : Towards High Efficiency and High Durability Antireflection Coating, *Manon Dewynter (Student)*, *Fabien Paumier, Eric Le-Bourhis, Cyril Dupeyrat*, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France

**PP-ThP-6** Plasma Research Reactor to Validate Nanocalorimetry as a Prospective Plasma Diagnostics Technique, *Carles Corbella*, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; *Feng Yi, Andrei Kolmakov*, National Institute of Standards and Technology (NIST), USA

**PP-ThP-8** Ion Acceleration on Insulating Substrates: Synchronized Floating Potential HIPIMS for AlN and AlScN Thin Film Growth, *Oleksandr Pshyk, Jyotish Patidar, Kerstin Thorwarth, Lars Sommerhäuser, Sebastain Siol*, Empa - Swiss Federal Laboratories for Materials Science and Technology, Switzerland

**PP-ThP-9** Effect of Si and B Incorporation in TiCN-based Thin Film on Physical Properties by Direct Current Plasma Chemical Vapor Deposition, *Rizu Kurogi (Student)*, *Takeyasu Saito, Noki Okamoto, Mika Kawamoto*, Osaka Metropolitan University, Japan

**PP-ThP-11** Magnetron Discharge Modelling using SAPIC, a 2D PIC-MCC AMR Code, *Adrien REVEL, Tiberiu MINEA*, University of Paris-Saclay, LPGP, France

**PP-ThP-12** Calorimetric and Electrostatic Probe Diagnostics of a Gas Aggregation Source Plasma, *Caroline Adam (Student)*, *Viktor Schneider, Jessica Niemann*, Kiel University, Germany; *Daniil Nikitin, Jan Hanuš, Ronaldo Katuta, Iqra Whid, Veronika Červenková, Andrey Shukurov, Hynek Biederman*, Charles University, Czech Republic; *Holger Kersten*, Kiel University, Germany

**PP-ThP-13** Comparative Study of High-Order Silanes for Low-Temperature SiGe Epitaxy in Ultra-High Vacuum Chemical Vapor Deposition, *Dongmin Yoon*, 50, Yonsei-ro, Seodaemun-gu, Republic of Korea; *Hyerin Shin, Seokmin Oh, Seonwoong Jung, Dae-Hong Ko*, Yonsei University, Korea

**PP-ThP-14** Reaction Characteristics of Germanium Tetrabromide on Si1-XGeX(B) and Si(P) Films Using Ultra-High Vacuum Chemical Vapor Deposition System, *Hyerin Shin (Student)*, *Dongmin Yoon, Seokmin Oh, Dae-hong Ko*, Yonsei University, Korea

**PP-ThP-15** Thickness-Dependent Electrical Properties of MoN Films Grown by Thermal ALD Using MoO<sub>2</sub>Cl<sub>2</sub>, *So Young Kim (Student)*, Yonsei University, Republic of Korea; *Tai-su Park*, Justem Corporation Ltd., Republic of Korea; *Dae-Hong Ko*, Yonsei University, Republic of Korea

**PP-ThP-16** Plasma-enhanced Atomic Layer Deposition of Smooth Layers of Tungsten Nitride and Boron Nitride for Optical Application, *Alan Uy*, University of Maryland College Park, USA; *Maxim Markevitch*, NASA, USA

**PP2-3-FrM-4** Electrocatalytic Performance of AlCrCoNiFeX (X = C, O) High Entropy Alloy Films for Oxygen and Hydrogen Evolution Reactions, *Amna Waheed*, Ming Chi University of Technology, Taiwan; *Bih-Show Lou*, Chang Gung University, Taiwan; *Jyh-Wei Lee, Krishnan Tiwari*, Ming Chi University of Technology, Taiwan

## Protective and High-temperature Coatings

### Room Town & Country A - Session MA-ThP

#### Protective and High-temperature Coatings Poster Session

5:00 – 7:00pm

**MA-ThP-1** Multienvironment Tribological Assessment of TiB<sub>2</sub>:h-BN:a-C Coatings Deposited on 316L Stainless Steel, *Ihsan Efeoglu, Gokhan Gulden, Banu Yaylali, Mustafa Yesilyurt, Ali Emre, Yasar Totik*, Atatürk University, Turkey; *Justyna Kulczyk-Malecka, Peter Kelly*, Manchester Metropolitan University, UK

**MA-ThP-2** Understanding Solid Particle Erosion in Multicomponent Ti<sub>1-x</sub>Al<sub>x</sub>N Based Coatings Using Synchrotron Nanodiffraction, *Anna Hirle (Student)*, *Rainer Hahn, Philip Kutrowatz, Tomasz Wojcik*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; *Anton Davydok*, Helmholtz-Zentrum Hereon, Institute of Materials Physics, Hamburg, Germany; *Szilard Kolozsvári, Peter Polcik*, Plansee Composite Materials GmbH, Lechbruck am See, Germany; *Anders.O Eriksson, Carmen Jerg, Klaus Boebel*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Balzers, Liechtenstein; *Helmut Riedl*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Vienna, Austria; *Institute of Materials Science and Technology, TU Wien, Vienna, Austria*

**MA-ThP-3** Applicability of MoS<sub>2</sub>-Asic Heterostructure for Durable Supercapacitance and NO<sub>2</sub> Gas Sensing in Harsh Environment, *Habeebur Rahman (Student)*, *Davinder Kaur*, Indian Institute of Technology Roorkee, India

**MA-ThP-4** Comparative Analysis of the Mechanical Properties of Layers Obtained in Three Different Steels by Atomic Diffusion of Boron., *Enrique Hernández Sánchez, Luz Alejandra Linares Duarte (Student)*, *Diego Hernández Domínguez, Yesenia Sánchez Fuentes*, Instituto Politécnico Nacional, Mexico; *Raúl Tadeo Rosas*, Universidad Autónoma de Coahuila, Mexico; *José Guadalupe Miranda Hernández*, Centro Universitario UAEM Valle de México; *Rafael Carrera Espinoza, Melvyn Alvarez Vera*, Universidad de las Américas Puebla, Mexico; *Jonathan Jorge Ruiz Domínguez*, Instituto Mexicano de la Propiedad Industrial, Mexico

**MA-ThP-5** Reactively Sputtered High-Entropy Metal-Sublattice Carbide Thin Films Based on Al-Cr-Nb-Ta-Ti, *Thomas Astecker (Student)*, TU Wien, Austria; *Peter Polcik*, Plansee SE, Austria; *Alexander Kirnbauer, Paul Heinz Mayrhofer*, TU Wien, Austria

**MA-ThP-7** Synergistic Alloying Effects of Si and Y in Cr-Mn-Mo-N Thin Films: A Combined Experimental and DFT Study, *Christian Gutschka (Student)*, TU Wien, Austria; *Lukáš Vrána, Matej Fekete*, Masaryk University, Czechia; *Zsolt Czigány*, Hungarian Academy of Sciences, Hungary; *Tatiana Pitoňáková*, Masaryk University, Czechia; *Katalin Balácsi*, Hungarian Academy of Sciences, Hungary; *Pavel Souček*, Masaryk University, Czechia; *Helmut Riedl-Tragenreif*, TU Wien, Austria

**MA-ThP-9** Thermal Stability and Mechanical Performance of Si-Modified High-Entropy (Al,Mo,Ta,V,W)C Coatings, *Muhammad Awais Altaf, Balint Istvan Hajas (Student)*, TU Wien, Institute of Materials Science and Technology, Austria; *Szilard Kolozsvari*, Plansee Composite Materials GmbH, Germany; *Tomasz Wojcik, Alexander Kirnbauer, Paul Heinz Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria

**MA-ThP-10** Influence of the Ti/Al Ratio on the Performance of Ti-Al-N Coated Tools in the Machining of Stainless Steel 304, *Felipe Batista dos Anjos (Student)*, *Carlos Bernardo Gouvêa Pereira, Carlos Augusto Henning Laurindo, Fred Lacerda Amorim, Michelle Sostag Meruvia, Paulo Cesar Soares Junior, Ricardo Diego Torres*, Pontificia Universidade Católica do Paraná, Brazil

**MA-ThP-13** Nitrogen-Dependent Structural and Mechanical Properties Evolution of AlCrNbSiTiN<sub>x</sub> High Entropy Alloy Nitride Coatings Deposited by HiPIMS, *Sheng-Jui Tseng*, National Taipei University of Technology, Taiwan; *Jyh-Wei Lee*, Ming Chi University of Science and Technology, Taiwan; *Yung-Chin Yung*, National Taipei University of Technology, Taiwan; *Bih-Show Lou*, Chang Gung University, Taiwan; *Chia-Lin Li*, Ming Chi University of Science and Technology, Taiwan

## Surface Engineering - Applied Research and Industrial Applications

### Room Town & Country A - Session IA-ThP

#### Surface Engineering – Applied Research and Industrial Applications Poster Session

#### Applications Poster Session

5:00 – 7:00pm

**IA-ThP-2** Interface-Engineered Grain Boundary Diffusion for Enhanced Coercivity, Corrosion Resistance, and Thermal Stability in Thick NdFeB Magnets with Efficient Rare-Earth Utilization, *Ching-Chien Huang*, National Kaohsiung University of Science and Technology, Taiwan

**IA-ThP-3** Advanced Coating Solutions for High-Pressure Injectors under Bioethanol Fuel Conditions, *Sung Chul Cha*, Hyundai Motor Group- Hyundai Kefico, Republic of Korea; *Jongkuk Kim*, KIMS, Republic of Korea; *Kyoung Il Moon, Hae Won Yoon, Gi-Hoon Kwon*, KITECH, Republic of Korea; *Chang Ha Park, Dong Sik Kim*, ATF, Republic of Korea

**IA-ThP-4** The Influence of Long-Term Aging in Air Atmosphere on the Precipitation Process of Inconel 740H Alloy, *Adam Zielinski, Hanna Purzynska, Radoslaw Swadzba*, SIEC BADAWCZA LUKASIEWICZ - GORNOSLASKI INSTYTUT TECHNOLOGICZNY, Poland

**IA-ThP-5** Nanolayers Based on Ti/TiN, Zr/ZrN, and Cr/CrN in Multilayer PVD Systems: Tribological and Micro-impact Response, **Daniel Toboła**, Łukasiewicz Research Network – Krakow Institute of Technology, Poland; **Ben D. Beake**, Micro Materials Ltd., UK; **Lukasz Maj**, Institute of Metallurgy and Materials Science of Polish Academy of Sciences, Poland; **Tomasz Liskiewicz**, Manchester Metropolitan University, UK; **Cezary Drenda**, AGH University of Krakow, Poland

**IA-ThP-6** Cathodic-Driven Alkalization and Interfacial Reaction Competition in Cathodic-Excess MAO of AZ31B Magnesium Alloy, **Shih-Yen Huang (Student)**, Yueh-Lien Lee, National Taiwan University, Taiwan

**IA-ThP-7** In-Situ Diffusion-Induced Micro-Carburization of SAE 4140 Steel: Tailoring Surface Integrity and Torsional Resistance via Controlled-Atmosphere Heat Treatment, **Te-Kang Tsao**, Dep. of Mechanical Engineering, National Kaohsiung University of Science and Technology, Taiwan; **Wen-Hao Chiu**, Department of Mechanical Engineering, National Kaohsiung University of Science and Technology, Taiwan

**IA-ThP-8** Influence of the Parameters of Producing Oxide Coatings on Aluminum Tapes on Their Structure and Insulating Properties, **Aleksander Iwaniak**, **Andrzej Posmyk**, **Lukasz Bąk**, **Adrian Krysiak**, Silesian University of Technology, Poland

## Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health, Food, and Agriculture Applications

### Room Town & Country A - Session MD-ThP

#### Surface Engineering of Biomaterials, Devices and Regenerative Materials: Health Food, and Agriculture Applications Poster Session 5:00 – 7:00pm

**MD-ThP-1** Eco-Friendly Synthesis of Graphene Intercalation Material for Highly Sensitive Maldi-Ms Bioanalysis, **Yao-Tsung Hsu**, Graduate Institute of Medical Sciences, College of Medicine, Taipei Medical University, Taiwan; **Shih-Min Wang**, National Atomic Research Institute, Taiwan; **Fu-Der Mai**, Department of Biochemistry and Molecular Cell Biology, School of Medicine, College of Medicine, Taipei Medical University, Taiwan

**MD-ThP-2** Study of the Antimicrobial and Osteoinductive Properties of Polymeric Nanocomposite Membranes, **Lucia Sofia Flores-Hidalgo (Student)**, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; **Phaedra S. Silva-Bermúdez**, Unidad de Ingeniería de Tejidos, Terapia Celular y Medicina Regenerativa; Instituto Nacional de Rehabilitación Luis Guillermo Ibarra Ibarra, Mexico; **Gina Prado-Prone**, Laboratorio de Biointerfases, DEPel, Facultad de Odontología, Universidad Nacional Autónoma de México, Mexico; **Montserrat Ramirez-Arellano**, Facultad de Medicina, Universidad Nacional Autónoma de México, Mexico; **Sandra E Rodil**, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México

**MD-ThP-3** Understanding the Influence of Sn and Nb on Morphology, Sustainable Synthesis of Calcium Phosphate 1d Nanostructures via Electrospinning for Advanced Functional Applications, **Yao Mawuena Tsekpo**, **Weronika Smok**, Faculty of Mechanical Engineering, Silesian University of Technology, Poland; **Adrian Adrian Radon**, Łukasiewicz Research Network – Institute of Non-Ferrous Metals, Poland; **Pawel Jarka**, **Tomasz Tanski**, Faculty of Mechanical Engineering, Silesian University of Technology, Poland

**MD-ThP-4** Advancing Surface Engineering of Additively Manufactured Dental Implants by HiPIMS  $\beta$ -Ti Coatings, **Juan Carlos Sanchez-Lopez**, Instituto de Ciencia de Materiales de Sevilla (CSIC-US), Spain; **Amanda Robau-Porrua**, Universidad de Concepción-Chile; **Marleny Rodríguez-Albelo**, Universidad de Sevilla, Spain; **Celia Garcia-Hernandez**, **Cristina Garcia-Cabezon**, Universidad de Valladolid, Spain; **Jesús Eduardo Gonzalez-Ruiz**, Universidad de la Habana, Cuba; **Yadir Torres**, Universidad de Sevilla, Spain

**MD-ThP-5** Electrochemical Characterization of Copper-Coated Commercial Ti6Al4V Alloy for Advanced Biomedical Applications, **Bryan Angel Zárate Verdusco (Student)**, Universidad Michoacana de San Nicolás de Hidalgo, Mexico; **Victor Manuel Solorio García**, **Miguel Ivan Dávila Perez**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, Mexico; **Roberto Guerra González**, Universidad Michoacana de San Nicolás de Hidalgo, Mexico; **Héctor Javier Vergara Hernández**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, Mexico; **Julio César Villalobos Brito**, Tecnológico Nacional de México/ Instituto Tecnológico de Morelia, Mexico

**MD-ThP-6** TiO<sub>x</sub> Nanocoating as Antimicrobial for Personal Protective Equipment, **Lorena Reyes-Carmona (Student)**, **Sandra Rodil**, UNAM, Mexico; **Omar Sepúlveda-Robles**, IMSS, Mexico; **Gina Prado-Prone**, **Argelia Almaguer-Flores**, UNAM, Mexico

**MD-ThP-10** Investigating the Corrosion Behavior of Sol Gel and PEO Coatings on Magnesium for Biomedical Applications, **Vinod Prabhakar**, **Avirup Sinha (Student)**, **Sujoy Ghosh**, University of Illinois at Chicago, USA; **Hamdy Ibrahim**, Kennesaw State University, USA; **Mathew T. Mathew**, University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA

**MD-ThP-11** Antimicrobial Potential of Silver-Copper Nanocoatings Deposited on Medical and Dental Polymeric Materials, **Argelia Almaguer-Flores**, **Lorena Reyes-Carmona**, **David E. Martínez-Lara**, **Gina Prado-Prone**, **Sandra E. Rodil**, UNAM, Mexico

**MD-ThP-12** Effects of the Temperature and Target Power on Microstructure and Electrochemical Properties of Fe-Mn-C-Zn Coatings via Magnetron Sputtering Co-Deposition, **Xinna Zhu**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Carlo Paternoster**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada; **Andrea Gatto**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Carlos Henrique Michelin Beraldo**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada; **Silvio Defanti**, Department of Engineering “Enzo Ferrari” University of Modena and Reggio Emilia, Modena, Italy; **Paolo Mengucci**, **Gianni Barucca**, Department SIMAU, Università Politecnica delle Marche, Ancona, Italy; **Helton José Wigger**, Laboratory for Biomaterials and Bioengineering (LBB-BPK), Associação de Ensino, Pesquisa e Extensão BIOPARK, Toledo, Brazil; **Andranik Sarkissian**, Plasmionique Inc., Varennes, QC, Canada; **Diego Mantovani**, Laboratory for Biomaterials and Bioengineering, (CRC-Tier I), Dept Min-Met-Materials Eng., & Regenerative Medicine, CHU de Quebec, Laval University, Québec, QC, Canada

**MD-ThP-17** On the Adhesion of a-C:H Coatings Deposited by PECVD on PDMS for Biomedical Applications, **Lidi Astrid Yáñez-Hernández**, **Linda Victoria Bonilla-Gameros**, **Pascale Chevallier**, Université Laval, Canada; **Laurent Houssiau**, University of Namur, Belgium; **Andranik Sarkissian**, Plasmionique Inc., Canada; **Diego Mantovani**, Université Laval, Canada

**MD-ThP-18** An Asymmetric Capillary-Driven Microtiter Platform Enabling Centrifuge-Free Point-of-Care Diagnostics, **KangKug Lee**, **Yasmine Jones**, **Anastasia Smith**, Wilberforce University, USA

**MD-ThP-20** Effect of Current Density Variation on Cu-Incorporated Mao Coatings on Ti-30nb-5mo Alloy, **Giovana Collombaro Cardoso**, Universidade Estadual Paulista, UNESP, Bauru, Brazil; **Gustavo da Silva Diniz**, Universidade Estadual Paulista, UNESP, Bauru, Brazil; **Carlos Roberto Grandini**, Universidade Estadual Paulista, UNESP, Bauru, Brazil

**MD-ThP-21** Influence of Microstructure and Processing Voltage on the Formation and Properties of Coatings Obtained by Micro-Arc Oxidation (MAO) in Ti-25Ta-xNb Alloys, **Fernanda de Freitas Quadros**, Sao Paulo State University (UNESP), Brazil; **Katia Barbaro**, Istituto Zooprofilattico Sperimentale del Lazio e della Toscana, Italy; **Diego Rafael Nespeque Corrêa**, Sao Paulo State University (UNESP), Brazil; **Julietta V. Rau**, Istituto di Struttura della Materia, Consiglio Nazionale delle Ricerche, Italy; **Carlos Roberto Grandini**, Sao Paulo State University (UNESP), Brazil

**MD-ThP-22** Using X-Ray Photoelectron Spectroscopy to Probe Lateral and Depth Distribution of Copper Based Photocatalytic Biocidal Film, **David Surman**, Kratos Analytical Inc, USA; **Jonathan Counsell**, Kratos Analytical Limited, UK; **Heather Yates**, University of Salford, UK

**MD-ThP-23** Surface-Engineered Graphene/PDMS Coatings Reduce Multispecies Uropathogenic Biofilms Under Urine-like Conditions, **Francisca Sousa-Cardoso (Student)**, **Rita Teixeira-Santos**, **Luciana C. Gomes**, **Rita Vieira**, University of Porto, Portugal; **Brian A. Korgel**, University of Texas at Austin, USA; **Olivia S. G. P. Soares**, **Filipe J. Mergulhão**, University of Porto, Portugal

**MD-ThP-24** Flexible Negative Pyramid Microarrays Coated with Ag NanoParticles for Raman Enhancing Detection, **Ting-Yu Liu**, Ming Chi University of Technology, Taiwan

## Topical Symposium on Sustainable Surface Engineering

### Room Town & Country A - Session TS1-ThP

#### Coatings for Batteries and Hydrogen Applications Poster Session

##### 5:00 – 7:00pm

**TS1-ThP-1** Hydrogen Permeation Testing: Electrochemical vs. Pressurized Methods, **Phillip Rückeshäuser (Student)**, TU Wien, Austria; **Szilard Kolozsvari**, **Peter Polcik**, Plansee Composite Materials GmbH, Germany; **Timea Stelzig**, Oerlikon AM Europe GmbH, Germany; **Konrad Fadenberger**, Oerlikon Balzers Coating Germany GmbH, Germany; **Klaus Boebel**, Oerlikon Balzers, Liechtenstein; **Tomasz Wojcik**, **Helmuth Riedl**, TU Wien, Austria

**TS1-ThP-2** Towards Defect-Free Laser-Induced Graphene Coating on Copper and Aluminum Foils for Anode-Free Li and Na Metal Batteries, **Aarti Gunjal**, IISER PUNE, India; *Suparna Saha*, TCG-CREST Kolkata, India; *Swati Jadhav*, IISER PUNE, India; *Satishchandra Ogale*, TCG-CREST Kolkatta, India

**TS1-ThP-3** HiPIMS Mo<sub>x</sub>N and Cu-Mo<sub>x</sub>N Thin Films for the Hydrogen Evolution Reaction, *Hung-I Wu*, Department of Electronic Engineering, National Yunlin University of Science and Technology, Taiwan; *Ying-Hsiang Lin*, Department of Materials Science and Engineering, National United University, Taiwan; *Shih-Hung Lin*, Department of Electronic Engineering, National Yunlin University of Science and Technology, Taiwan; *Fan-Bean Wu*, *Chi-Yueh Chang*, Department of Materials Science and Engineering, National United University, Taiwan; *Thi Xuyen Nguyen*, *Ruei-Chi Lin*, *Jyh-Ming Ting*, Department of Materials Science and Engineering, National Cheng Kung University, Taiwan; **Wan-Yu Wu**, Department of Materials Science and Engineering, National United University, Taiwan

**TS1-ThP-4** Hydrogen Barrier Properties of Thin Oxide Films Prepared by Different Methods: Correlations of Thin Film Properties with Hydrogen Permeation Rates, *Dmitry Kalanov*, *Juergen W. Gerlach*, *Patrick C. With*, **Yeliz Unutulmazsoy**, *Ulrike Helmstedt*, Leibniz Inst. of Surface Eng. (IOM), Germany

## Topical Symposium on Sustainable Surface Engineering

### Room Town & Country A - Session TS2-ThP

#### Coatings and Surfaces for Renewable Energy Technology

##### Poster Session 5:00 – 7:00pm

**TS2-ThP-2** Comparative Electrochemical Performance of  $\alpha$ -MnO<sub>2</sub> and  $\delta$ -MnO<sub>2</sub> Coatings for High-Performance Supercapacitor Electrodes, **Eduardo Estrada Movilla (Student)**, *Álvaro Ortiz Pérez*, *Jhonathan Castillo Saenz*, Instituto de Ingeniería, Universidad Autónoma de Baja California, Colombia

## Tribology and Mechanics of Coatings and Surfaces

### Room Town & Country A - Session MC-ThP

#### Tribology and Mechanics of Coatings and Surfaces Poster

##### Session 5:00 – 7:00pm

**MC-ThP-1** Evaluation of Stress Field in a Borided Inconel 718 Superalloy Under Dry Sliding Wear, *Alan Daniel Contla Pacheco*, *Iván Campos Silva*, Instituto Politécnico Nacional, Mexico; *Arturo Ocampo Ramírez*, Universidad Veracruzana, Mexico; *Daybelis Fernández Valdés*, Tecnológico Nacional de México; **GERMAN ANIBAL RODRIGUEZ CASTRO**, **Felipe Nava Leana**, **ALFONSO MENESES AMADOR**, Instituto Politécnico Nacional, Mexico

**MC-ThP-3** Tribological and Corrosion Performance of Alloy 718 coated with WC/Co Applied by HVOF, **Nathalia Kappaun Vieira (Student)**, PUCPR, Brazil; *Steffen Aicholz*, Oerlikon Balzers, Brazil; *Michelle Sostag Meruvia*, *Paulo Soares*, *Ricardo Diego Torres*, PUCPR, Brazil

**MC-ThP-4** Influence of Coating Thickness and Bias Voltage on Cracking Behavior of TiAlCN PVD Coating, *Kirsten Bobzin*, **Christian Kalscheuer**, *Wenting Xu*, Surface Engineering Institute - RWTH Aachen University, Germany

**MC-ThP-5** Enhancing Corrosion Resistance and Tribological Performance of Inconel 718 through Plasma Nitriding and CrAlN/DLC Coatings for Oilfield Applications, **Heloísa Scalabrin (Student)**, *Michelle Sostag Meruvia*, *Paulo Soares*, *Ricardo Diego Torres*, Pontifícia Universidade Católica do Paraná (PUC-PR), Brazil

**MC-ThP-6** High Temperature Stability of Different Diamond-Like Carbon Thin Films, **Daniel Pözlberger (Student)**, Institute of Materials Science and Technology, TU Wien, Austria; *Julien Keraudy*, *Klaus Böbel*, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; *Tomasz Wojcik*, *Philip Kutrowatz*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; *Carsten Gachot*, Institute of Design Engineering and Product Development, Research Unit Tribology, TU Wien, Austria; *Helmut Riedl*, Institute of Materials Science and Technology, TU Wien, Austria

**MC-ThP-7** The Impact of Nitriding Parameters on the Tribological and Corrosion Behavior of Inconel 718, *Gabriel Queiroz Carara*, **Heloísa Scalabrin**, *Cesar Neitzke*, *Michelle Meruvia*, *Paulo Soares*, **Ricardo Torres**, PUCPR, Brazil

**MC-ThP-9** Effect of Sodium Tungstate on the Wear and Corrosion Behavior of Micro-Arc Oxidation Coatings on AZ31 Magnesium Alloy, **Yueh-Lien Lee**, National Taiwan University, Taiwan

**MC-ThP-10** Advantages of Ultra-High Vacuum Tribology, **Esteban Broitman**, *Sven Kelling*, *Rickmer Kose*, Sentys Inc., USA

**MC-ThP-11** Influence of Boriding Time on the Wear Behavior and Structural Stability of Ti6Al4V Under Simulated Physiological Conditions, **J. A. Nieto-Sosa (Student)**, *M. A. Melo-Pérez*, *I. Arzate-Vázquez*, *L. A. Moreno-Ruiz*, Instituto Politécnico Nacional, Mexico; *E.E. Vera-Cárdenas*, Tecnológico Nacional de México/Instituto Tecnológico de Pachuca, Mexico; *G. A. Rodríguez-Castro*, *J.A. Andraca-Adame*, *Josué Escobar-Hernández*, Instituto Politécnico Nacional, Mexico

**MC-ThP-12** Vapor Deposition Coatings for Hard Chrome Replacement in Advanced Mechanical Components, **Giacomo Bernardelli (Student)**, *Luca Lusvardi*, *Giovanni Bolelli*, Università degli Studi di Modena e Reggio Emilia, Italy; *Alessio Bassano*, Leonardo S.p.A., Italy

**MC-ThP-14** Temperature-Driven Tribofilm Evolution in Oscillating Sliding Contacts Revealed by Advanced Surface Characterization, **Florian Pape**, Bruker Inc., USA; *Alexander Dulebo*, *Udo Volz*, **Ude D. Hangen**, Bruker Nano GmbH, Germany

# Friday Morning, April 24, 2026

<p><b>Plasma and Vapor Deposition Processes</b>  <b>Room Palm 1-2 - Session PP2-3-FrM</b>  <b>HiPIMS, Pulsed Plasmas, and Energetic Deposition III</b>  <b>Moderators: Arutiun P. Ehasarian, Sheffield Hallam University, UK, Tetsushide Shimizu, Tokyo Metropolitan University, Japan</b></p>		<p><b>Surface Engineering - Applied Research and Industrial Applications</b>  <b>Room Town &amp; Country D - Session IA1-FrM</b>  <b>Advances in Application Driven Research and Hybrid Systems, Processes, and Coatings</b>  <b>Moderators:</b>  <b>Hana Barankova, Uppsala University, Sweden,</b>  <b>Ladislav Bardos, Uppsala University, Sweden</b></p>
8:00am	<p><b>PP2-3-FrM-1</b> Experiments and Modelling of High Power Impulse Magnetron Sputtering Discharges with Metallic Target, <b>Jon Tomas Gudmundsson, Kateryna Barynova</b>, University of Iceland; <b>Martin Rudolph</b>, Leibniz Institute of Surface Engineering (IOM), Germany; <b>Joel Fischer</b>, Linköping University, Sweden; <b>Tetsuhide Shimizu</b>, Tokyo Metropolitan University, Japan; <b>Daniel Lundin</b>, Linköping University, Sweden</p>	<p><b>IA1-FrM-1</b> Effect of Alumina Coating and Testing Condition on Tribological Behaviors and the Oxidative Potential of Brake Wear Particles, <b>Minh Khoi Phan, Ran Cai, Xueyuan Nie, Jimi Tjong</b>, University of Windsor, Canada; <b>D.T.A. Matthews</b>, University of Twente, Netherlands</p>
8:20am	<p><b>INVITED: PP2-3-FrM-2</b> Knowing and Controlling the Dynamic Plasma Potential and Sheath Voltage as Key Elements in Plasma-Based Deposition,  <b>André Anders</b>, Plasma Engineering LLC, USA</p>	<p><b>INVITED: IA1-FrM-2</b> Memristive Effects in PEO Alumina: Mechanisms and Technological Implications, <b>Aleksey Rogov, Allan Matthews, Aleksey Yerokhin</b>, University of Manchester, UK</p>
8:40am		
9:00am		<p><b>INVITED: IA1-FrM-4</b> Advanced Coating Strategies to Combat Friction and Wear in Low-Viscosity Fuel Systems, <b>Eun Cairns</b>, University of North Texas, USA; <b>Satish Dixit, S. Berkebile</b>, Plasma Technology Inc., USA; <b>Diana Berman, Samir M. Aouadi, Andrey A. Voevodin</b>, University of North Texas, USA</p>
9:20am	<p><b>PP2-3-FrM-5</b> Superposition of HiPIMS with RF on a Single Magnetron: Generation of High Ion Energies, <b>Caroline Adam (Student), Luka Hansen, Tobias Hahn, Jessica Niemann, Daniel Zuhayra</b>, Kiel University, Germany; <b>Günter Mark, Jonathan Löffler</b>, MELEC GmbH, Germany; <b>Jan Benedikt, Holger Kersten</b>, Kiel University, Germany</p>	
9:40am	<p><b>PP2-3-FrM-6</b> Low-Temperature Synthesis of Ti<sub>2</sub>AC (A = Si or Ge) Max-Based Coatings via Highly Ionized Growth Techniques, <b>Arno Gitschthaler, Philipp Dörflinger, Rainer Hahn</b>, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <b>Jürgen Ramm, Klaus Böbel</b>, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <b>Szilard Kolozsvári, Peter Polcik</b>, Plansee Composite Materials GmbH, Germany; <b>Eleni Ntemou, Daniel Primetzhofer</b>, Department of Physics and Astronomy, Uppsala University, Sweden; <b>Dominik Fuchs, Andreas Limbeck</b>, Institute of Chemical Technologies and Analytics, TU Wien, Austria; <b>Peter Švec</b>, Institute of Physics, Slovak Academy of Sciences, Slovakia; <b>Anton Davydok, Christina Krywka</b>, Institute of Materials Physics, Helmholtz Zentrum Hereon, Germany; <b>Helmut Riedl</b>, Institute of Materials Science and Technology, TU Wien, Austria</p>	<p><b>IA1-FrM-6</b> Cu Grain Engineering and Plating Process Reliability Study for Heterogeneous Integration, <b>Shan-Yuan Wu (Student), Ying-Chao Hsu, Po-Chun Chen, Sheng-Ru Hsiao</b>, National Taipei University of Technology, Taiwan</p>
10:00am	<b>BREAK</b>	<b>BREAK</b>
10:20am		<p><b>IA1-FrM-8</b> Surface Property Enhancement of Al 7075 Alloy via MAO-Based Boron-Reinforced Composite Coatings, <b>Erhan Karaca</b>, Turkish State Railways, Turkey; <b>Suleyman Sukuroglu (Student)</b>, Gümüşhane University, Turkey</p>
10:40am		<p><b>IA1-FrM-9</b> Advanced HiPIMS Coating Equipment for High-Performance Cutting Tools Amid Tungsten Price Increase, <b>Yafen Chen, Wei Zhou</b>, Guangdong Huasheng Nanotechnology, China</p>
11:00am		
11:20am		

# Friday Morning, April 24, 2026

<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Room Palm 3-4 - Session MC1-2-FrM</b> <b>Friction, Wear, Lubrication Effects, &amp; Modeling II</b> <b>Moderators:</b> <b>Klaus Boebel, Oerlikon Balzers, Liechtenstein</b>		<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Room Town &amp; Country B - Session MC3-3-FrM</b> <b>Tribology of Coatings and Surfaces for Industrial Applications III</b> <b>Moderators: Osman Eryilmaz, Argonne National Laboratory, Volker Weihnacht, Fraunhofer IWS, Germany</b>	
8:00am		<b>INVITED: MC3-3-FrM-1</b> High-performance ta-C-based coatings for tribological applications deposited by laser-arc technique, <b>Volker Weihnacht, Frank Kaulfuss, Stefan Makowski, Falko Hofmann, Fabian Härtwig, Martin Zawischa, Fraunhofer IWS, Germany</b>	
8:20am	<b>MC1-2-FrM-2</b> Active Friction and Wear Control in a-C:Cr Films: Electrical Current and Polarity Effects on Catalytic Graphitization, <b>Newton K. Fukumasu, Miguel R. Danelon, University of São Paulo, Brazil; Abrar Faiyad, Ashlie Martini, University of California Merced, USA; Cherlio Scandian, Federal University of Espirito Santo, Brazil; Roberto M. Souza, University of São Paulo, Brazil</b>		
8:40am	<b>MC1-2-FrM-3</b> Tribological Performance of Sputter-Deposited MoS <sub>2</sub> Coatings with Varying Process Gases, <b>Tomas Babuska, Alexander Mings, Steven Larson, John Curry, David Adams, Sandia National Laboratories, USA</b>	<b>MC3-3-FrM-3</b> The Development of Amorphous-Based Multi-Component Alloys for the Nanocomposite Coatings and their Properties, <b>Kyoung Il Moon, Gi-Hoon Kwon, Hae Won Yoon, Byoungcho Choi, Kyong jun An, Korea Institute of Industrial Technology, Republic of Korea; Sung Chul Cha, Hyundai Motor Group-Hyundai Kefico, Republic of Korea</b>	
9:00am	<b>INVITED: MC1-2-FrM-4</b> Effect of Ta Content in ta-C:Ta Coatings on the Machining Performance of Aluminum Alloy, <b>Kosuke Suzuki, Mitsubishi Materials Corporation, Japan; Takayuki Tokoroyama, Ruixi Zhang, Noritsugu Umehara, Nagoya University, Japan; Shun Sato, Kenji Yumoto, Mitsubishi Materials Corporation, Japan</b>	<b>MC3-3-FrM-4</b> Corrosive Wear Mechanisms and Corrosion Performance of WC-Reinforced Fe–iN625 Coatings Fabricated by Laser Cladding, <b>Yiqi Wang (Student), Northeastern University, China</b>	
9:20am		<b>MC3-3-FrM-5</b> Effect of Boriding on the Surface Hardness and Wear Resistance of Low Carbon Steel Fabricated by Wire Arc Additive Manufacturing (WAAM), <b>Abraham Molina-Sanchez (Student), Cesar David Resendiz-Calderon, Leonardo Israel Farfan-Cabrera, Christian Ricardo Cuba-Amesquita, Tecnológico de Monterrey, Mexico</b>	
9:40am			
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am	<b>MC1-2-FrM-8</b> Effects of Silver Nitrate Additives on the Antibacterial and Corrosion Behaviors of Plasma Electrolytic Oxidized AZ31 Magnesium Alloy, <b>Bo-Xuan Zheng (Student), Chuan-Ming Tseng, Ming Chi University of Technology, Taiwan, Republic of China</b>	<b>INVITED: MC3-3-FrM-8</b> Ultralow Wear, Conductive Plasma-Enhanced Atomic Layer Deposited Metal Nitrides, <b>Brandon Krick, Florida State University, USA</b>	
10:40am	<b>MC1-2-FrM-9</b> Experimental Investigation of Friction, Wear, and Dielectric Behavior of Hybrid Polymer Nanocomposites for Insulated Bearings with Machine Learning Assisted Optimization, <b>Unnati Joshi, Anand Joshi, Vishal Mehta, Jaivik Pathak, Pranav Rath, Parul University, India</b>		
11:00am			
11:20am			
11:40am			

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