

# ICMCTF 2025 Program Key

- CM** Advanced Characterization, Modelling and Data Science for Coatings and Thin Films
- EX** Exhibitors Keynote Lecture
- HL** Awards Ceremony and Honorary Lecture
- IA** Surface Engineering - Applied Research and Industrial Applications
- KYL** Keynote Lectures
- MA** Protective and High-temperature Coatings
- MB** Functional Thin Films and Surfaces
- MC** Tribology and Mechanics of Coatings and Surfaces
- MD** Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials
- PL** Plenary Lecture
- PP** Plasma and Vapor Deposition Processes

# ICMCTF 2025 Program Overview

Room /Time	Golden State Ballroom	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: Dev & Char of Bio Surfaces/ Coatings I		MB2-1-MoM: Thin Films for Electronic Devices I	PP1-1-MoM: PVD Coatings and Technologies I	TS1-1-MoM: Coatings for Batts & Hydro Applications I	CM4-1-MoM: Simul, ML & Data Sci for Matls Des and Discovery I	
MoKYL					KYL-MoKYL: Keynote Lecture I			
MoA		MD1-2-MoA: Dev & Char of Bio Surfaces/ Coatings II	PP6-MoA: Greybox Models for Wear Prediction	MB2-2-MoA: Thin Films for Electronic Devices II	PP1-2-MoA: PVD Coatings and Technologies II	TS1-2-MoA: Coatings for Batts & Hydro Applications II	CM4-2-MoA: Simul, ML & Data Sci for Matls Des and Discovery II	IA2-1-MoA: Surf Mod of Comp in Auto, Aero & Mfg Apps I
TuM		IA1-TuM: Adv in App Driven Res & Hybrid Syst Proc and Coatings	MA3-1-TuM: Hard and Nanostructured Coatings I	MB2-3-TuM: Thin Films for Electronic Devices III	MA1-1-TuM: Coat to Resist Hi-temp Oxid, Corr, and Fouling I		PP5-TuM: MicrofabTechniq ues with Lasers and Plasmas	IA2-2-TuM: Surf Mod of Comp in Auto, Aero & Mfg Apps II
TuEx					EX-TuM: Exhibitors Keynote Lecture			
TuA	<b>EXHIBITION</b>	IA3-TuA: Innov Surface Eng for Adv Cutting and Forming Tool	MA3-2-TuA: Hard and Nanostructured Coatings II	MC2-1-TuA: Mechanical Properties and Adhesion I	MA1-2-TuA MA2-1-TuA		TS3-TuA: Circular Strategies for Surface Engineering	MA4-1-TuA: High Entropy and Other Multi-prin element Matls I
WeM		MD2-WeM: Surf Resp to Bio Environ, Bioint, and Regen Bio	MA3-3-WeM: Hard and Nanostructured Coatings III	MC2-2-WeM: Mechanical Properties and Adhesion II	MA2-2-WeM: Thermal and Environl Barrier Coatings II	PP2-1-WeM: HiPIMS, Pulsed Plasmas and Ener Deposition I	MC3-1-WeM: Tribology of Coatings and Surf for Ind Apps I	MA4-2-WeM: High Entropy and Other Multi-prin- element Matls II
WeKYL					KYL-WeKYL: Keynote Lecture II			
WeA		MB1-WeA: TF and Surfaces for Optical Applications	PP3-WeA: ALD, CVD Coating Technologies	TS2-WeA: (Photo)electrocatalysis and Solar/ Therm Conv		PP2-2-WeA: HiPIMS, Pulsed Plasmas & Ener Deposition II	MC3-2-WeA: Tribology of Coatings and Surf for Ind Apps II	MA4-3-WeA: High Entropy and Other Multi-prin- element Matls III
WeHL						HL-WeHL: Bunshah Award Honorary Lecture		
ThM		CM1-1-ThM: Spat-res & in situ Char of TF, Coat & Eng Surfaces I	MB3-ThM: Low-dimensional Materials and Structures	MA5-ThM: Boron-containing Coatings		PP8-1-ThM: Commem Sess for Papken Hovsepian I	CM2-1-ThM: Adv Mech Testing of Surfaces, TF, Coat & Small Vol I	CM3-1-ThM: Acc TF Dev: Hi-thru Syn, Auto Char & Data Anal I
ThA		CM1-2-ThA: Spat-res & in situ Char of TF, Coat & Eng Surfaces II	MC1-1-ThA: Friction, Wear, Lub Effects, & Modeling I			PP8-2-ThA: Commem Sess for Papken Hovsepian II	CM2-2-ThA: Adv Mechl Testing of Surfaces, TF, Coat & Small Vol II	CM3-2-ThA: Acc TF Dev Hi-thru Syn, Auto Char & Data Analysis II
ThP	<b>POSTER SESSIONS</b>							
FrM		PP4-FrM: Deposition Tech for Carbon-based Coatings	MC1-2-FrM: Friction, Wear, Lubric. Effects, & Modeling II					

# Monday Morning, May 12, 2025

**Plenary Lecture**  
**Room Town & Country A - Session PL-MoM**  
**Plenary Lecture**  
**Moderator: Peter Kelly**, Manchester Metropolitan University, UK

8:00am	<b>PL-MoM-1</b> Welcome and Opening Remarks,	
8:20am	<b>INVITED: PL-MoM-2</b> ICMCTF Plenary Lecture: Past, Present and Future of All Solid State Batteries – Challenges and Opportunities, <i>Shirley Meng</i> , Argonne National Lab, The University of Chicago, USA	
8:40am		
9:00am		

# Monday Morning, May 12, 2025

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Town &amp; Country C - Session CM4-1-MoM</b>  <b>Simulations, Machine Learning and Data Science for Materials Design and Discovery I</b>  <b>Moderators: Ferenc Tasnadi, Linköping University, Sweden, Davide G. Sangiovanni, Linköping University, Sweden</b></p>		<p><b>Functional Thin Films and Surfaces</b>  <b>Room Palm 5-6 - Session MB2-1-MoM</b>  <b>Thin Films for Electronic Devices I</b>  <b>Moderators: Jiri Houska, University of West Bohemia, Czechia, Spyros Kassavetis, Aristotle University of Thessaloniki, Greece</b></p>	
10:00am	<p><b>INVITED: CM4-1-MoM-1</b> Crystal Symmetry Determination in Electron Diffraction Using Machine Learning, <i>Kevin Kaufmann</i>, Oerlikon Metco, USA</p>		
10:20am			
10:40am	<p><b>CM4-1-MoM-3</b> Perturbation Analysis and Solutions to the One-Dimensional Cahn-Hilliard Equation in Thin Films, <i>Rahul Basu (Student)</i>, 71 Nagavarpalyam, India</p>	<p><b>MB2-1-MoM-3</b> Impact of Zn Alloying to CsZnxPb1-xi3 Power Conversion Efficiency of Solar Cells, <i>Abdul Mannan Majeed (Student)</i>, Vilnius University, Lithuania</p>	
11:00am	<p><b>CM4-1-MoM-4</b> Predicting Segregation Behaviour in Polycrystalline Materials: A Case Study of P in Fe, <i>Amin Reiners-Sakic, Christoph Dösinger, Alexander Reichmann, Ronald Schnitzer, Lorenz Romaner, David Holec</i>, Montanuniversität Leoben, Austria</p>	<p><b>MB2-1-MoM-4</b> Experimental Investigation of Thermal Conductivity During Aging of Nanoporous Sintered Silver Joints, <i>Yann Billaud, Anas Sghuri, Didier Saury, Xavier Milhet</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France</p>	
11:20am	<p><b>CM4-1-MoM-5</b> Tunable Interface Stress in Cu/W Nanomultilayers, <i>Yang Hu, Giacomo Lorenzin, Jeyun Yeom</i>, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>Manura Liyanage, William A. Curtin</i>, EPFL, Switzerland; <i>Lars P.H. Jeurgens, Jolanta Janczak-Rusch, Claudia Cancellieri, Vladyslav Turlo</i>, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland</p>	<p><b>MB2-1-MoM-5</b> Patterned Silver Nanowire Network for CdSe@CdZnS/ZnS Green Quantum Dot Light-Emitting Diodes, <i>Chia-Yu Lin, Tzu-Hsu Wen, Chun-Yuan Huang</i>, National Taitung University, Taiwan</p>	
11:40am	<p><b>CM4-1-MoM-6</b> Understanding the Effects of Underlayer Materials on Electron Beam Resists Through the Use of Monte Carlo Simulations and the Development of a New Simulation Tool, <i>David Castillo Lozada (Student), Toby Thomassen, Scott Lewis, Axel Scherer, Guy De Rose</i>, California Institute of Technology, USA; <i>Luisa Bozano, Kevin Gu</i>, Applied Materials, USA</p>	<p><b>MB2-1-MoM-6</b> Effects of Room Temperature Sputtered Nano-Interfaced WxMoyO<sub>3</sub> Nanograins on Highly Responsive NO Sensing, <i>Somdatta Singh (Student)</i>, Indian Institute of Technology Roorkee, India; <i>Ravikant Adalati</i>, University of Mons, Belgium, India; <i>Prachi Gurawal, Raman Devi</i>, Indian Institute of Technology Roorkee, India; <i>Gaurav Malik</i>, Jeonbuk National University, Republic of Korea, India; <i>Davinder Kaur, Ramesh Chandra</i>, Indian Institute of Technology Roorkee, India</p>	
12:00pm		<p><b>MB2-1-MoM-7</b> Study on the Effect of Different Oxygen Flow Rates on Vanadium-Doped Zinc Oxide Thin Film Piezoelectric Pressure Sensors, <i>CHENG HAN HSU (Student)</i>, National Cheng Kung University (NCKU), Taiwan</p>	

# Monday Morning, May 12, 2025

	<p><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>Moderators:</b>  <b>Qi Yang</b>, National Research Council of Canada,  <b>Christian Kalscheuer</b>, IOT, RWTH Aachen, Germany</p>	<p><b>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials</b>  <b>Room Palm 1-2 - Session MD1-1-MoM</b>  <b>Development and Characterization of Bioactive Surfaces/Coatings I</b>  <b>Moderators: Mathew T. Mathew</b>, University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA,  <b>Sandra E. Rodil</b>, Universidad Nacional Autónoma de México</p>
10:00am	<p><b>INVITED: PP1-1-MoM-1</b> Complementary Cutting-Edge Plasma Monitoring Techniques for Process Development, Production Control and Machine Learning (ML), <b>Thomas Schütte</b>, Jan-Peter Urbach, Peter Neiß, Marius Radloff, Hokuto Kikuchi, PLASUS GmbH, Germany</p>	<p><b>MD1-1-MoM-1</b> Hybrid Ceramic Coating with Enhanced Corrosion Resistance for Magnesium-Based Biodegradable Implants, <b>Abdelrahman Amin (Student)</b>, Diya Patel, University of Tennessee at Chattanooga, USA; Bryce Williams, Thomas McGehee, Alyssandra Navarro, Mostafa Elsaadany, University of Arkansas, USA; Hamdy Ibrahim, University of Tennessee at Chattanooga, USA; Merna Abd rabo, The University of Tennessee at Chattanooga, USA</p>
10:20am		<p><b>INVITED: MD1-1-MoM-2</b> Functional Coatings by Low Vacuum Plasma for the Innovation in Regenerative and Reparative Medicine, <b>Pascale Chevallier</b>, Carlo Paternoster, Francesco Copes, Laval University, Canada; <b>Andranik Sarkissian</b>, Plasmionique Inc., Canada; <b>Diego Mantovani</b>, Laval University, Canada</p>
10:40am	<p><b>PP1-1-MoM-3</b> Plasma Diagnostics and Thin Film Synthesis Using an Industrial-Sized DC Vacuum Arc Source with Magnetic Steering and a TaB<sub>2</sub> Cathode, <b>Igor Zhirkov</b>, Andrejs Petruhins, Ali Saffar Shamshirgar, Materials Design Division, Linköping University, Sweden; <b>Philipp Immich</b>, IHI Hauerz Techno Coating B.V., Netherlands; <b>Szilard Kolozsvári</b>, Peter Polcik, PLANSEE Composite Materials GmbH., Germany; <b>Johanna Rosen</b>, Materials Design Division, Linköping University, Sweden</p>	
11:00am	<p><b>PP1-1-MoM-4</b> Novel Approach in Cathodic Arc Evaporation Enabling Precise Control Over Energy of Deposited Ions in Industrial Conditions, <b>Martin Ucik (Student)</b>, Masaryk University, Czechia</p>	<p><b>MD1-1-MoM-4</b> 10-h2da Coating on Polyvinyl Chloride Catheter Biomaterials for Prevention of Candida-Associated Urinary Tract Infections, <b>Jermiah Tate (Student)</b>, Joel Bumgardner, Tomoko Fujiwara, J. Amber Jennings, University of Memphis, USA</p>
11:20am	<p><b>PP1-1-MoM-5</b> Industrial-Scale PVD Deposition of Aluminium Oxide, <b>Ivan Kolev</b>, IHI Hauerz Techno Coating B.V., Netherlands; <b>Philipp Immich</b>, Daniel Barnholt, Julia Janowitz, Louis Tegelaers, IHI Hauerz Techno Coating B.V., Netherlands; <b>Rolf Schäfer</b>, Robeko GmbH &amp; Co. KG, Germany; <b>Tobias Radny</b>, Robeko GmbH &amp; Co., KG, Germany</p>	<p><b>INVITED: MD1-1-MoM-5</b> Hydrogen-Treated Orthopedic Implants : A Novel Approach to Enhance Biocompatibility and Mitigate Inflammation, <b>Ren-Jei Chung</b>, National Taipei University of Technology, Taiwan</p>
11:40am	<p><b>PP1-1-MoM-6</b> Control of Microstructure and Phase of Sputter-Deposited Tantalum Thin Films for Inkjet Device Applications, <b>Brittney Burant (Student)</b>, HP Inc, USA</p>	
12:00pm	<p><b>PP1-1-MoM-7</b> Dc Magnetron Sputtering Yield Amplification of C, Si, and Ge Doped with W, Cu, Ta, or Mo, <b>Julio Cruz</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>Rebecca Giffard</b>, Universidad de Guadalajara, Mexico; <b>Stephen Muhl</b>, <b>Marco Martinez</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>Roberto Sanginés</b>, <b>Roberto Machorro</b>, Centro de Nanociencias y Nanotecnología, Universidad Nacional Autónoma de México; <b>Efraín Chávez</b>, Instituto de Física, Universidad Nacional Autónoma de México</p>	

# Monday Morning, May 12, 2025

<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: Martin Welters</b>, KCS Europe GmbH, Germany,  <b>Chen-Hao Wang</b>, National Taiwan University of Science and          Technology, Taiwan,  <b>Fan-Bean Wu</b>, National United University, Taiwan</p>		
10:00am	<p><b>INVITED: TS1-1-MoM-1</b> Coating Innovations for Green Energy: Enabling Hydrogen Technologies, <b>Mehmet Öte</b>, Schaeffler Technologies AG &amp; Co. KG, Germany</p>	
10:20am		
10:40am	<p><b>INVITED: TS1-1-MoM-3</b> Intermediate-Temperature Proton-Conducting Solid Oxide Fuel Cells and Electrolyzers for Clean Energy, <b>Sheng-Wei Lee</b>, <b>Chung-Jen Tseng</b>, <b>Szu-Yuan Chen</b>, National Central University, Taiwan</p>	
11:00am		
11:20am	<p><b>INVITED: TS1-1-MoM-5</b> Development of Anode Electrodes for Water Electrolysis by Electroplating, <b>Pei-Chi Lin</b>, <b>Chieh-Fu Huang</b>, <b>Yong-Song Chen</b>, National Chung Cheng University, Taiwan</p>	
11:40am		
12:00pm	<p><b>TS1-1-MoM-7</b> Development of Three-Dimensional Lithium Metal Composite Electrode with Lithiophilic ALD Coating, <b>Yu-Lun Cheng</b>, <b>Chih-Liang Wang</b>, National Tsing Hua University, Taiwan</p>	

# Monday Afternoon, May 12, 2025

## Keynote Lectures

Room Town & Country A - Session KYL-MoKYL

### Keynote Lecture I

Moderator:

Ivan G. Petrov, University of Illinois at Urbana-Champaign, USA

1:00pm **INVITED: KYL-MoKYL-1** Bill Sproul Award and Honorary ICMCTF Lecture: Robust Plasmonically-Active Nanoscale Multilayer TiN/NbN Coatings, *Arunprabhu Sugumaran Arunachalam Sugumaran*, Sheffield Hallam University, United Kingdom; *Ryan Bower, Ming Fu*, Imperial College London, UK; *David Owen, Papken Eh. Hovsepiyan*, Sheffield Hallam University, UK; *Peter K. Petrov, Rupert Oulton*, Imperial College London, UK; *Arutiun P. Eghisarian*<sup>1</sup>, Sheffield Hallam University, UK

1:20pm

<sup>1</sup> Bill Sproul Awardee

# Monday Afternoon, May 12, 2025

<b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b> <b>Room Town &amp; Country C - Session CM4-2-MoA</b> <b>Simulations, Machine Learning and Data Science for Materials Design and Discovery II</b> <b>Moderators: Davide G. Sangiovanni, Linköping Univ., Sweden, Ferenc Tasnadi, Linköping University, Sweden</b>		<b>Functional Thin Films and Surfaces</b> <b>Room Palm 5-6 - Session MB2-2-MoA</b> <b>Thin Films for Electronic Devices II</b> <b>Moderators: Spyros Kassavetis, Aristotle University of Thessaloniki, Greece, Tomas Kubart, Angstrom, Switzerland</b>	
1:40pm	<b>INVITED: CM4-2-MoA-1</b> Computational Approach to Probing Hydrogen in Atomic Layer-Deposited Barrier Coatings, <b>Vladyslav Turlo</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland		
2:00pm		<b>INVITED: MB2-2-MoA-2</b> "Flexible Electronics" Sustainability — Challenges and Opportunities: a Materials Science View, <b>Natalie Stigelin</b> , Georgia Institute of Technology, USA	
2:20pm	<b>CM4-2-MoA-3</b> Conditions for the Preparation of Maximum-Quality Crystalline ZnO by Molecular Dynamics Simulations of the Atom-by-Atom Film Growth, <b>Jiri Houska, Kamila Hantova</b> , University of West Bohemia, Czechia		
2:40pm	<b>CM4-2-MoA-4</b> Effect of the Presence of Oxygen on Hydrogen Adsorption on BCC Fe Surface: A Density Functional Theory Study Combined with Molecular Dynamics Simulations, <b>Zixiong Wei, Fei Shuang, Poulumi Dey</b> , Delft University of Technology, Netherlands	<b>MB2-2-MoA-4</b> Polycarbonate Transfer Techniques for the Fabrication of MoS <sub>2</sub> Based Field Effect Transistors, <b>Chih-Hao Chiang, Ruo-Yao Wang (Student), Meng-Lin Tsai</b> , National Taiwan University of Science and Technology, Taiwan	
3:00pm	<b>CM4-2-MoA-5</b> Machine Learning Prediction of Work Functions for No, No <sub>2</sub> , Co, Co <sub>2</sub> , and H <sub>2</sub> S Gas Molecules Adsorbed on ZnGa <sub>2</sub> O <sub>4</sub> (111) Surfaces, <b>Po-Liang Liu, Hsiang-Yu Hsieh, Chao-Cheng Shen</b> , National Chung Hsing University, Taiwan	<b>MB2-2-MoA-5</b> Advancing Piezo-Gated Transistor Performance by Bilayer of V-doped ZnO and Mesoporous PVDF-TrFE, <b>YU ZHEN ZHANG (Student)</b> , National Cheng Kung University (NCKU), Taiwan	
3:20pm	<b>CM4-2-MoA-6</b> ML-Assisted Atomistic Modeling of Transition Metal Diborides: Mechanical Response and Phase-Dependent Phenomena, <b>Shuyao Lin (Student)</b> , TU Wien, Institute of Materials Science and Technology, Austria; <b>Davide Sangiovanni, Lars Hultman</b> , Linköping Univ., IFM, Thin Film Physics Div., Sweden; <b>Paul Mayrhofer, Nikola Koutna</b> , TU Wien, Institute of Materials Science and Technology, Austria	<b>MB2-2-MoA-6</b> Enhanced Synaptic Characteristics Under Applied Magnetic Field in V <sub>2</sub> O <sub>5</sub> /Nimnin Based Switching Device for Neuromorphic Computing, <b>Kumar Kaushlendra</b> , Indian Institute of technology Roorkee, India; <b>Davinder Kaur</b> , Indian Institute of Technology Roorkee, India	
3:40pm	<b>BREAK</b>	<b>BREAK</b>	
4:00pm	<b>INVITED: CM4-2-MoA-8</b> Computational Modeling of Nanoelectronics and Emerging Materials, <b>Chao-Cheng Kaun</b> , Academia Sinica, Taiwan	<b>MB2-2-MoA-8</b> Fabrication and Characterization of Iron Titanate Thin Films as a Potential Tunnel Barrier for Magnetic Tunnel Junction (MTJ)'s, <b>Adnan Kareem (Student)</b> , Jozef Stefan Institute, Slovenia, Pakistan	
4:20pm		<b>MB2-2-MoA-9</b> Fabrication of IZO/IGZO-Based Vertical Thin-Film Transistor and Its Integration with OLEDs for High-Density Display, <b>Nahyun Kim (Student), Seok Hee Hong, Jun Hyeok Lee, Ho Jin Lee, Tae Geun Kim</b> , Korea University, Republic of Korea	

# Monday Afternoon, May 12, 2025

	<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: Christian Kalscheuer, IOT, RWTH Aachen, Germany,</b> <b>Qi Yang, National Research Council of Canada</b>	<b>Plasma and Vapor Deposition Processes</b> <b>Room Palm 3-4 - Session PP6-MoA</b> <b>Greybox Models for Wear Prediction</b> <b>Moderators: Philipp Immich, IHI Hauser Techno Coating B.V.,</b> <b>Netherlands, Ludvik Martinu, Polytechnique Montréal, Canada</b>
1:40pm	<b>PP1-2-MoA-1</b> From PVD to CVD to ALD - Changes in Demand for Semiconductor Interconnect Metals , <i>Estrelita (Lita) Shon-Roy</i> , TECHCET, USA	<b>INVITED: PP6-MoA-1</b> Greybox Models for the Qualification of Coated Tools for High-Performance Cutting, <i>Kirsten Bobzin, Christian Kalscheuer, Muhammad Tayyab, Xiaoyang Liu</i> , RWTH Aachen University, Germany
2:00pm	<b>PP1-2-MoA-2</b> Material-Dependent Loss in Deposition Rate of High Power Impulse Magnetron Sputtering Discharges, <i>Martin Rudolph</i> , Leibniz Inst. of Surface Eng. (IOM), Germany; <i>Kateryna Barynova</i> , University of Iceland; <i>Nils Brenning</i> , KTH Stockholm, Sweden; <i>Swetha S. Babu</i> , University of Iceland; <i>Joel Fischer, Daniel Lundin</i> , Linköping University, Sweden; <i>Michael A. Raadu</i> , KTH Stockholm, Sweden; <i>Jon Tomas Gudmundsson</i> , University of Iceland, Sweden	
2:20pm	<b>PP1-2-MoA-3</b> Effect of Acetylene Gas Flow Rates on Target Poisoning, Phase Composition, Microstructure, Mechanical Properties and Corrosion Resistance of AlCrNbSiTiC High Entropy Alloy Carbide Thin Films, <i>Hsiang Yu Tsai, Yung Chin Yang</i> , National Taipei University of Technology, Taiwan; <i>Chia Lin Li</i> , Ming Chi University of Technology, Taiwan; <i>Bih Show Lou</i> , Chang Gung University, Taiwan; <i>Jyh Wei Lee</i> , Ming Chi University of Technology, Taiwan	<b>PP6-MoA-3</b> A Grey-Box Modell for Predicting Friction Coefficients of Coated Cutting Tools for Improved Wear Modelling, <i>Jan Wolf</i> , University of Stuttgart - Institute for Machine Tools, Germany; <i>Nithin Kumar Bandaru, Martin Dienwiebel</i> , Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany; <i>Hans-Christian Möhring</i> , University of Stuttgart - Institute for Machine Tools, Germany
2:40pm	<b>PP1-2-MoA-4</b> Duplex Coating Process by Plasma Enhanced Magnetron Sputtering, <i>Jianliang Lin</i> , Southwest Research Institute, USA	<b>PP6-MoA-4</b> Coating-Dependant Thermomechanical Loading of Cutting Tools for Greybox Models, <i>Thomas Bergs, Markus Meurer, Mustapha Abouridouane</i> , Manufacturing Technology Institute (MTI) - RWTH Aachen University, Germany; <i>Kirsten Bobzin, Christian Kalscheuer, Muhammad Tayyab</i> , Surface Engineering Institute - RWTH Aachen University, Germany
3:00pm	<b>PP1-2-MoA-5</b> Influence of Post-Heat Treatment on Structural, Photocatalytic, Dielectric, and Tribological Properties of TiO <sub>2</sub> /Al/TiO <sub>2</sub> Multilayer Thin Films, <i>Anand Joshi, Mahendra Singh Rathore, Unnati Joshi</i> , Parul University, India	<b>PP6-MoA-5</b> Bridging the Gap Between Milling and Tribological Wear Mechanisms: Comparative Analysis of Coated Carbide Tools, <i>Amod Kashyap</i> , Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (µTC), Karlsruhe Institute of Technology, Germany; <i>Amirmohammad Jamali</i> , Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany; <i>Johannes Schneider</i> , Institute for Applied Materials (IAM-ZM), Micro-Tribology Centre (µTC), Karlsruhe Institute of Technology, Germany; <i>Michael Stueber</i> , Institute for Applied Materials (IAM-AWP), Karlsruhe Institute of Technology, Germany; <i>Volker Schulze</i> , Institute of Production Science (wbk), Karlsruhe Institute of Technology, Germany
3:20pm	<b>PP1-2-MoA-6</b> Reactive Magnetron Sputtering to Design 2D Cobalt Nitride - Carbon Nanotube Buckypaper Hybrids: Co-N Phase Diagram Screening and Thin Film Porosity Enhancement, <i>Saraf Khan (Student)</i> , 3 Rue Mademoiselle 54000 Nancy, France	<b>PP6-MoA-6</b> Prediction of Tool Wear Depending on the Coating Architecture for Coated Cemented Carbide Tools by Machine Learning, <i>Benjamin Bergmann</i> , Institute of Production Engineering and Machine Tools - Leibniz University Hannover, Germany; <i>Christian Kalscheuer</i> , Surface Engineering Institute - RWTH Aachen University, Germany; <i>Berend Denkena</i> , Institute of Production Engineering and Machine Tools - Leibniz University Hannover, Germany; <i>Kirsten Bobzin, Xiaoyang Liu</i> , Surface Engineering Institute - RWTH Aachen University, Germany; <i>Nico Junge</i> , Institute of Production Engineering and Machine Tools - Leibniz University Hannover, Germany
3:40pm	<b>BREAK</b>	<b>BREAK</b>
4:00pm	<b>PP1-2-MoA-8</b> Optimizing Bi Stoichiometry in Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> Thin Films Deposited via Low-Pressure RF Magnetron Sputtering in Ar Plasma, <i>Zikriya Khan</i> , University of Mons (UMONS), Belgium; <i>Kristiaan Temst</i> , Catholic University of Leuven, Belgium; <i>Denis Rémiens</i> , Polytechnic University of Hauts-de-France; <i>Stéphanos Konstantinidis</i> , University of Mons (UMONS), Belgium	<b>INVITED: PP6-MoA-8</b> Greybox Modeling the Run-in and Wear Behavior of Milling Tools Coated with Arc-Evaporated TiAlN Based on Operando, in Situ and Ex Situ Analyses, <i>Wolfgang Tillmann, Finn Rümenapf, Nelson Filipe Lopes Dias, Simon Jaquet, Rafael Garcia Carballo, Dirk Biermann, Nils Denkmann, Jörg Debus</i> , TU Dortmund University, Germany
4:20pm	<b>PP1-2-MoA-9</b> The Effect of an Additional Cooled Graphitic Anode to the Magnetron Sputtering of Al Films, <i>Daniela Shealsey Jacobo Mora (Student)</i> , <i>Stephen Muhl, Marco Antonio Martínez Fuentes</i> , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México	
4:40pm	<b>PP1-2-MoA-10</b> Low Temperature Deposition of Silicon Nitride Thin Films by Reactive RF Diode Sputtering, <i>Rakesh Singh</i> , Ferrotec Inc., USA	<b>PP6-MoA-10</b> Determination of Residual Stress and Crystallite Size for TiAlN-Coated Milling Tools Using Laser-Spectroscopy-Based Grey-Box Modeling, <i>Nils Denkmann (Student)</i> , TU Dortmund University, Germany; <i>Nelson Filipe Lopes Dias, Finn Rümenapf</i> , TU Dortmund University, Germany; <i>Simon Jaquet, Rafael Garcia Carballo, Dirk Biermann</i> , TU Dortmund University, Germany; <i>Wolfgang Tillmann</i> , TU Dortmund University, Germany; <i>Jörg Debus</i> , TU Dortmund University, Germany
5:00pm	<b>PP1-2-MoA-11</b> Experimental and Simulative Investigation of Crack Growth in TiAlCrN PVD Coatings, <i>Ujjwal Suri, Felix Weber, Christoph Broeckmann</i> , Institute of Applied Powder Metallurgy and Ceramics (IAPK) at RWTH Aachen e.V., Germany; <i>Kirsten Bobzin, Christian Kalscheuer, Xiaoyang Liu</i> , RWTH Aachen University, Surface Engineering Institute (IOT), Germany	<b>PP6-MoA-11</b> Predicting Solid Particle Erosion of Metals: A Machine Learning Approach, <i>Stephen Brown (Student)</i> , <i>Foutse Khomh</i> , Polytechnique Montréal, Canada; <i>Juan Manuel Mendez</i> , MDS Coating Technologies, Canada; <i>Marjorie Cavarroc</i> , Safran Tech, France; <i>Ludvik Martinu, Jolanta Ewa Klemberg-Sapieha</i> , Polytechnique Montréal, Canada
5:20pm	<b>PP1-2-MoA-12</b> Determination of Mechanical Properties of PVD Tool Coatings Using Machine Learning, <i>Kirsten Bobzin, Christian Kalscheuer, Xiaoyang Liu (Student)</i> , Surface Engineering Institute - RWTH Aachen University, Germany	<b>PP6-MoA-12</b> Characterization of AlCrVY(O)N Thin Film Properties and Thermo-Mechanical Load Profiles in Machining AISI 304 Stainless Steel Using Greybox Modelling Approaches, <i>Erik Krumme</i> , Institute of Machining Technology (ISF), TU Dortmund University, Germany; <i>Finn Rümenapf</i> , TU Dortmund University, Germany; <i>Kai Donnerbauer</i> , TU Dortmund University, Germany; <i>Jannis Saelzer</i> , TU Dortmund University, Germany; <i>Nelson Filipe Lopes Dias</i> , TU Dortmund University, Germany; <i>Pascal Volke, Andreas Zabel</i> , Institute of Machining Technology (ISF), TU Dortmund University, Germany; <i>Wolfgang Tillmann</i> , TU Dortmund University, Germany; <i>Frank Walther</i> , TU Dortmund University, Germany

# Monday Afternoon, May 12, 2025

	<p><b>Surface Engineering - Applied Research and Industrial Applications</b>  <b>Room Town &amp; Country D - Session IA2-1-MoA</b>  <b>Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications I</b>  <b>Moderators: Satish Dixit, Plasma Technology Inc., USA, Masaki Okude, Mitsubishi Materials Corporation, Japan, Jan-Ole Achenbach, KCS Europe GmbH, Germany</b></p>	<p><b>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials</b>  <b>Room Palm 1-2 - Session MD1-2-MoA</b>  <b>Development and Characterization of Bioactive Surfaces/Coatings II</b>  <b>Moderators: Hamdy Ibrahim, University of Tennessee at Chattanooga, USA, Sandra E. Rodil, Universidad Nacional Autónoma de México</b></p>
1:40pm	<p><b>IA2-1-MoA-1</b> Laser Surface Remelting Induced Reaction Sintering of Nickel and Titanium Powders, <b>Milton Lima</b>, Institute for Advanced Studies, Brazil; <b>Alana Brito</b>, Technological Institute of Aeronautics, Brazil; <b>Felipe Costa</b>, BRENG Co., Brazil; <b>Rafael Siqueira</b>, Technological Institute of Aeronautics, Brazil; <b>Sheila Carvalho</b>, Federal University of Espirito Santo, Brazil</p>	<p><b>MD1-2-MoA-1</b> Surface Characteristics of Magnesium-Based Nanocomposite for Enhanced Biomedical Implants, <b>Merna Abdrabo (Student)</b>, <b>Tooba Tanveer, Abdelrahman Amin, Diya Patel</b>, University of Tennessee at Chattanooga, USA; <b>Thomas McGehee, Mostafa Elsaadany</b>, University of Arkansas, USA; <b>Hamdy Ibrahim</b>, University of Tennessee at Chattanooga, USA</p>
2:00pm	<p><b>IA2-1-MoA-2</b> A Comparative Study on the Formation of Micro-Arc Oxidation Coatings on AZ31 and AC84 Magnesium Alloys, <b>Chi-Hua Chiu (Student)</b>, <b>Shih-Yen Huang, Yueh-Lien Lee, Yu-Ren Chu</b>, National Taiwan University, Taiwan</p>	<p><b>INVITED: MD1-2-MoA-2</b> Carbide Derived Carbon Conversion Coatings for Tribological Applications, <b>Mike McNallan</b>, University of Illinois - Chicago, USA</p>
2:20pm	<p><b>INVITED: IA2-1-MoA-3</b> Ultra-High Vacuum Test System for Quantitative Determination of Hydrogen Permeability of Various Ceramic Coatings on Stainless Steel, <b>Ewa Rennebro</b>, Pacific Northwest National Laboratory, USA</p>	
2:40pm		<p><b>MD1-2-MoA-4</b> Nano-Mechanical Characterization of Sol-Gel Nanocoatings in the Context of Antibacterial/Antiviral Advanced High-Traffic Surfaces, <b>Ilaria Favuzzi, Edoardo Rossi</b>, Università degli studi Roma Tre, Italy; <b>Angelo Meduri, Mario Tului</b>, RINA-CSM, Italy; <b>Marco Sebastiani</b>, Univeristà degli studi Roma Tre, Italy</p>
3:00pm	<p><b>IA2-1-MoA-5</b> HIPIMS – Fascinating Technology to Make Next Steps in Tool, Decorative and Functional Applications, <b>Philipp Immich, Ivan Kolev, Andreas Fuchs, Daniel Barnholt, Julia Janowitz, Louis Tegelaers, Huub Vercoulen, Chinmay Trivedi, Geert-Jan Fransen</b>, IHI Hauser Techno Coating B.V., Netherlands; <b>Holger Hoche, Thomas Ulrich</b>, TU Darmstadt, Germany; <b>Peter Polcik</b>, Plansee Composite Materials GmbH, Australia</p>	
3:20pm	<p><b>IA2-1-MoA-6</b> Inorganic Sputtered Coatings to Reduce Snow Friction for Cross-Country Skiing, <b>Pauline Lefebvre (Student)</b>, SIMAP, Grenoble-INP, CNRS, France; <b>Fabian Wolfsperger</b>, WSL Institute for Snow and Avalanche Research SLF, Switzerland; <b>Jean Herody</b>, FFS, France; <b>Matthias Jaggi</b>, WSL Institute for Snow and Avalanche Research SLF, Switzerland; <b>Arnaud Mantoux</b>, SIMAP, CNRS, University Grenoble Alpes, France; <b>Nicolas Coulmy</b>, FFS, France; <b>Pascal Hagenmuller</b>, Centre d'Etudes de la Neige, CNRM, Météo-France; <b>Elisabeth Blanquet</b>, SIMAP, Grenoble-INP, CNRS, France</p>	
3:40pm	<p><b>BREAK</b></p>	<p><b>BREAK</b></p>
4:00pm	<p><b>IA2-1-MoA-8</b> Influence of Corrosion on Wear and Brake Particle Emissions of Alumina-Coated and Uncoated Cast Iron Brake Discs, <b>Ran Cai (Student)</b>, <b>Xueyuan Nie</b>, University of Windsor, Canada; <b>Yezhe Lyu Lyu, Jens Wahlström</b>, Lund University, Sweden</p>	<p><b>INVITED: MD1-2-MoA-8</b> Noble Nanoparticles Arrays Coating for Electrochemical (EC) and Surface-Enhanced Raman Spectroscopy (SERS) Biosensors, <b>Ting-Yu Liu</b>, Ming Chi University of Technology, Taiwan</p>
4:20pm	<p><b>IA2-1-MoA-9</b> The Effect of Mg Addition on the Corrosion Resistance of Two-Step Galvanizing Zn-5Al Coating, <b>Huan-Chang Liang</b>, Department of Mechanical and Electro-Mechanical Engineering, National I-Lan University, Taiwan; <b>Yen-Kai Chen, Chaur-Jeng Wang</b>, Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taiwan</p>	

# Monday Afternoon, May 12, 2025

<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, National Taiwan University of Science and Technology, Taiwan,</b> <b>Martin Welters, KCS Europe GmbH, Germany,</b> <b>Fan-Bean Wu, National United University, Taiwan</b>	
1:40pm	<b>TS1-2-MoA-1</b> The Effect of the Transition Metal Dopant on the Microstructure and Electrochemical Performance of Magnetron Sputtered Electrodes for Solid Oxide Fuel Cells Applications, <i>Justyna Kulczyk-Malecka, Katharina Steier, David Shaw, Kleitos Panagi, Peter Kelly, Manchester Metropolitan University, UK</i>
2:00pm	<b>TS1-2-MoA-2</b> Investigation of Ba <sub>0.5</sub> Ce <sub>0.3</sub> Zr <sub>0.18</sub> Y <sub>0.01</sub> Yb <sub>0.01</sub> O <sub>3-δ</sub> / Y <sub>0.2</sub> Ce <sub>0.8</sub> O <sub>2-δ</sub> Composite Coatings for the Electrolyte of Solid Oxide Fuel Cell, <i>Yen-Yu Chen, Ke-Hsing Wang, National Pingtung University of Science and Technology, Taiwan</i>
2:20pm	<b>TS1-2-MoA-3</b> Unveiling the ORR Mechanism on Co Single-Atom Catalysts Using Operando Raman Spectroscopy with Catalyst-Coated Membrane (CCM) Methodology, <i>Sun-Tang Chang, Yi-Qing Chu, Zih-Jhong Huang, Chen-Hao Wang, National Taiwan University of Science and Technology, Taiwan</i>
2:40pm	<b>TS1-2-MoA-4</b> Study on Mo <sub>x</sub> N Thin Films Deposited by HiPIMS and RF Sputtering with Heteroatom Doping for Hydrogen Evolution Reaction Catalysts, <i>Hung-I Wu (Student), National Yunlin University of Science and Technology, Taiwan; Ying-Hsiang Lin, National United University, Taiwan; Shih-Hung Lin, National Yunlin University of Science and Technology, Taiwan; Fan-Bean Wu, Chi-Yueh Chang, National United University, Taiwan; Thi Xuyen Nguyen, Chia-Ying Su, Ruei-Chi Lin, Jyh-Ming Ting, National Cheng Kung University (NCKU), Taiwan; Wan-Yu Wu, National United University, Taiwan</i>
3:00pm	<b>TS1-2-MoA-5</b> Ternary FeCoNi / Graphene Composites as Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction, <i>Yu Tsung Lin (Student), Jow Lay Huang, Sheng Chang Wang, Yu Min Shen, National Cheng Kung University (NCKU), Taiwan</i>
3:20pm	<b>TS1-2-MoA-6</b> Ti-Cr-N Nanopyramid/Nitrogen-Doped Carbon Quantum Dot/Stainless Steel Mesh as a Flexible Supercapacitor Electrode, <i>Rajesh Kumar (Student), Bhanu Ranjan, Krishan Kumar, Satyam Shankhdhar, Davinder Kaur, Indian Institute of Technology Roorkee, India</i>
3:40pm	<b>BREAK</b>
4:00pm	<b>TS1-2-MoA-8</b> Effects of Nb Content on the Water Splitting Performance of FeNiMoWN <sub>x</sub> High Entropy Coating Grown by Magnetron Sputtering, <i>Naveen Karuppusamy, Ming Chi University of Technology, Taiwan; Bih-Show Lou, Chang Gung University, Taoyuan City, Taiwan; Jyh-Wei Lee, Ming Chi University of Technology, Taiwan</i>
4:20pm	<b>TS1-2-MoA-9</b> Pseudocapacitive Storage in Molybdenum Oxynitride Nanostructures Reactively Sputtered on Stainless-Steel Mesh Towards an All-Solid-State Flexible Supercapacitor, <i>Bhanu Ranjan, Davinder Kaur, Indian Institute of Technology Roorkee, India</i>
4:40pm	<b>TS1-2-MoA-10</b> Applicability of MoS <sub>2</sub> -Asic Heterostructure for Durable Supercapacitance and NO <sub>2</sub> Gas Sensing in Harsh Environment, <i>Habeebur Rahman (Student), Indian Institute of Technology Roorkee (IIT Roorkee), India; Gagan Kumar Sharma, Indian Institute of Technology Roorkee, India; Preetam Singh, CSIR-National Physical Laboratory Delhi, India; Davinder Kaur, Indian Institute of Technology Roorkee, India</i>
5:00pm	<b>TS1-2-MoA-11</b> One Step Fabrication of Highly Ordered Binder Free Vanadium Oxide Thin Film Cathode for Next Generation Micro Batteries, <i>Ananya Bansal (Student), Indian Institute of technology Roorkee, India; Ramesh Chandra, Indian Institute of Technology Roorkee, India</i>
5:20pm	<b>TS1-2-MoA-12</b> Research Coating Conductive Material on SiO <sub>x</sub> @rGO Composite Materials as Anode Material in Lithium-Ion Batteries, <i>Yi-Ling Chen (Student), National Cheng Kung University (NCKU), Taiwan</i>

# Tuesday Morning, May 13, 2025

<b>Functional Thin Films and Surfaces</b> <b>Room Palm 5-6 - Session MB2-3-TuM</b> <b>Thin Films for Electronic Devices III</b> <b>Moderators:</b> <b>Jiri Houska</b> , University of West Bohemia, Czechia, <b>Ufuk Kilic</b> , University of Nebraska - Lincoln, USA		<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country C - Session PP5-TuM</b> <b>Microfabrication Techniques with Lasers and Plasmas</b> <b>Moderators: Carles Corbella</b> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA, <b>Valentina Dinca</b> , National Institute for Laser, Plasma, and Radiation Physics, Romania	
8:00am	<b>MB2-3-TuM-1</b> Morphological Effects and Impurity Levels on the High-Temperature Electrical Insulation of reactively sputtered AlN, <b>Norma Salvadores Farran (Student)</b> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; <b>Tomasz Wojcik</b> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, Austria; <b>Carmen Jerg</b> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <b>Astrid Gies</b> , Oerlikon Balzers, Oerlikon Surface Solutions, Liechtenstein; <b>Jürgen Ramm</b> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <b>Szilard Kolozsvári</b> , <b>Peter Polcik</b> , Plansee Composite Materials GmbH, Germany; <b>Jürgen Fleig</b> , <b>Tobias Huber</b> , Institute of Chemical Technologies and Analytics, TU Wien, Austria; <b>Eleni Ntemou</b> , <b>Daniel Primetzhofer</b> , Department of Physics and Astronomy, Uppsala University, Sweden; <b>Helmut Riedl</b> , Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria	<b>INVITED: PP5-TuM-1</b> Synthesis of 2D Transition Metal Dichalcogenides Using Advanced ALD Cycle Schemes, <b>Ageeth Bol</b> , University of Michigan, Ann Arbor, USA	
8:20am	<b>MB2-3-TuM-2</b> Pulsed Laser Deposition of Epitaxial Ti3AlC2 Mxene Thin Films on Al2O3(0001) Substrate, <b>Pramod Kumar</b> , Indian Institute of Technology Roorkee, India, University of Surrey, UK; <b>Ananya Bansal</b> , Indian Institute of Technology Roorkee, India; <b>Satheesh Krishnamurthy</b> , University of Surrey, UK; <b>Ramesh Chandra</b> , Indian Institute of Technology Roorkee, India		
8:40am	<b>MB2-3-TuM-3</b> Sputter Epitaxy of Predicted Dirac Semimetal MgTa <sub>2</sub> N <sub>3</sub> , <b>Julien Baptiste</b> , Sage Bauers, National Renewable Energy Laboratory, USA	<b>PP5-TuM-3</b> Nanocalorimetry for Plasma-Assisted Process Metrology in Semiconductor Microfabrication, <b>J. Trey Diulus</b> , National Institute of Standards and Technology (NIST), USA; <b>Carles Corbella</b> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; <b>Feng Yi</b> , <b>David LaVan</b> , <b>Berc Kalanyan</b> , <b>Mark McLean</b> , National Institute of Standards and Technology (NIST), USA; <b>Lakshmi Ravi Narayan</b> , National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; <b>William A. Osborn</b> , <b>James E. Maslar</b> , <b>Andrei Kolmakov</b> , National Institute of Standards and Technology (NIST), USA	
9:00am	<b>MB2-3-TuM-4</b> Stabilization of Cubic or Orthorhombic Structure in Sputtered Tin Sulfide Thin Films for Thermoelectric Applications, <b>Rémy Julia</b> , <b>David Pilloud</b> , <b>Sylvie Migot</b> , <b>Axel Tahir</b> , <b>Jaafar Ghanbaja</b> , <b>Brigitte Vigolo</b> , <b>Nicolas Stein</b> , <b>Jean-François PIERSON</b> , IJL / CNRS / Univ. Lorraine, France	<b>INVITED: PP5-TuM-4</b> Pulsed Laser Deposition for Energy Materials, <b>Thomas Lippert</b> , Paul Scherrer Institute, Switzerland	
9:20am	<b>MB2-3-TuM-5</b> Governing Metal-Insulator Transition in Ultra-Thin VO <sub>2</sub> Films by Surface Engineering, <b>Andres Hofer</b> , UC San Diego, USA; <b>Ali Basaran</b> , ali.basaran@ga.com, USA; <b>Alexandre Pofelski</b> , Brookhaven National Laboratory, USA; <b>Damir Wang</b> , <b>Victor Palin</b> , UC San Diego, USA; <b>Yimei Zhu</b> , Brookhaven National Laboratory, USA; <b>Ivan Schuller</b> , UC San Diego, USA		
9:40am	<b>MB2-3-TuM-6</b> Probing the Metal-Insulator Transition at YTiO <sub>3</sub> /LaTiO <sub>3</sub> Interfaces via Soft Chemical Synthesis, <b>Alexandre Simoes</b> , Rua Souza Oliveira, Brazil	<b>PP5-TuM-6</b> Honeycomb Structured Pdms Microtopography Modulates in Vitro Cell Behaviour and Bacteria Growth, <b>Valentina Dinca</b> , National Institute for Laser, Plasma, and Radiation Physics, Romania	
10:00am	<b>MB2-3-TuM-7</b> the Influence of Substrate Bias on Properties and Microstructure of High-Density Nanotwinned Ag Thin Films for High Power Device, <b>Ping-Chun Kuo (Student)</b> , <b>Fan-Yi Ouyang</b> , Department of Engineering and System Science, National Tsing Hua University, Hsinchu, Taiwan	<b>PP5-TuM-7</b> Sputtering onto Liquids : From Nanoparticle Suspensions to Functional Polymer Composites, <b>Stephanos Konstantinidis</b> , France - <b>Emmanuelle Bol</b> , <b>Valentine Jauquet</b> , <b>Jeremy Odent</b> , <b>Anastasiya Sergievskaya</b> , University of Mons, Belgium	
10:20am	<b>MB2-3-TuM-8</b> Electrodeposited Zirconium Titanate Thin Films: Structural, Magnetic, and Dielectric Properties for Spintronic Applications, <b>Ibra Saeed (Student)</b> , University of Milano Bicocca, Milan, Italy, Pakistan	<b>PP5-TuM-8</b> Rapid Single Step Atmospheric Pressure Plasma Jet Deposition of a SERS Active Surface, <b>Oliver S. J. Hagger (Student)</b> , <b>M. Emre Sener</b> , University College London, UK; <b>Imran Khan</b> , Defence Science Technology Laboratory, UK; <b>Francis Lockwood Estrin</b> , <b>Ivan P. Parkin</b> , <b>Daren J. Caruana</b> , University College London, UK	
10:40am	<b>MB2-3-TuM-9</b> Revolutionizing High-Entropy MEMS with Superior Thermal Stability and Scalability, <b>Li-Hui Tsao (Student)</b> , National Tsing Hua University, Taiwan	<b>PP5-TuM-9</b> Synergies Between Laser Technology and Thin Films for Advanced Functionalities, <b>Sylvain Le Coulre</b> , BFH-ALPS, Switzerland	

# Tuesday Morning, May 13, 2025

<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country A - Session MA1-1-TuM</b> <b>Coatings to Resist High-temperature Oxidation, Corrosion, and Fouling I</b> <b>Moderators: Justyna Kulczyk-Malecka, Manchester Metropolitan University, UK, Francisco Javier Pérez Trujillo, Universidad Complutense de Madrid, Spain</b>		<b>Protective and High-temperature Coatings</b> <b>Room Palm 3-4 - Session MA3-1-TuM</b> <b>Hard and Nanostructured Coatings I</b> <b>Moderators: Rainer Hahn, TU Wien, Institute of Materials Science and Technology, Austria, Stanislav Haviar, University of West Bohemia, Czechia, Fan-Yi Ouyang, National Tsing Hua University, Taiwan</b>	
8:00am	<b>INVITED: MA1-1-TuM-1</b> High Temperature Corrosion Resistant Coatings: Recent Aluminide Developments for Renewable Energy Applications, <i>Pauline Audigié, Cristina Lorente, Sergio Rodriguez, Loic Oger, Alina Agüero, Instituto Nacional de Técnica Aeroespacial (INTA), Spain</i>	8:00am	<b>INVITED: MA3-1-TuM-1</b> Hard TiAlTaN Coating by HIPIMS Deposition for Cutting Tools: Experiments, Simulations and Cutting Tests, <i>Emile Hays, University of Namur, Belgium; Jérôme Muller, Pavel Moskovin, University of Namur, Innovative Coating Solutions, Belgium; Loris Chavee, University of Namur, Belgium; Szilard Kolozsvári, Plansee Composite Materials GmbH, Germany; Stéphane Lucas, University of Namur, Innovative Coating Solutions, Belgium</i>
8:20am		8:20am	
8:40am	<b>MA1-1-TuM-3</b> Molten Salt Corrosion and Stress Corrosion Cracking Performance of Slurry Aluminide Coated Steels for Thermal Energy Storage, <i>Loïc OGER, Pauline Audigié, Instituto Nacional de Técnica Aeroespacial (INTA), Spain</i>	8:40am	<b>MA3-1-TuM-3</b> Development and Comparison of AlTiN-Based HiPIMS Coatings for Microtool Machining Applications, <i>Ivan Fernández-Martínez, Nano4Energy S.L.N.E, Spain</i>
9:00am	<b>MA1-1-TuM-4</b> Prediction of the Ageing Behavior of Diffusion Aluminide Coatings Using Machine Learning, <i>Vladislav Kolarik, Maria del Mar Juez Lorenzo, Fraunhofer Institute for Chemical Technology ICT, Germany; Pavel Praks, Ranata Praksová, IT4Innovations National Supercomputing Center, VSB - Technical University of Ostrava, Czechia</i>	9:00am	<b>MA3-1-TuM-4</b> Micro-Fracture Toughness and Durability of HIPIMS-Deposited Hard Coatings used for Micro-Machining of TiAl <sub>3</sub> V <sub>4</sub> Alloys, <i>Arley Garcia (Student), Nano4Energy SL, IMDEA Materiales, Spain; Jose Antonio Santiago, Nano4Energy SL, Spain; Christoph Kirchlechner, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany; Pablo Diaz Rodriguez, Nano4Energy SL, Spain; Miguel Monclús, IMDEA Materiales, Spain; Iván Fernández Martínez, Nano4Energy SL, Spain; Alvaro Guzmán, Universidad Politécnica de Madrid, Spain; Subin Lee, Karlsruhe Institute of Technology (KIT), Institute for Applied Materials (IAM), Germany; Jon Molina Aldareguia, Universidad Politécnica de Madrid, Spain</i>
9:20am	<b>MA1-1-TuM-5</b> AI-Enhanced Correlative Microscopy: A Multi-Modal Approach to Automotive Coating Evaluation, <i>Hugues G. Francois-Saint-Cyr, Thermo Fisher Scientific, USA; Alice Scarpellini, Bartłomiej Winiarski, Thermo Fisher Scientific, Netherlands; Roger Maddalena, Rengarajan Pelapur, Thermo Fisher Scientific, USA</i>	9:20am	<b>MA3-1-TuM-5</b> Effect of Process Parameters on the Structure and Mechanical Properties of TiZrN Thin Films Prepared by Co-Sputtering HPPMS/UBMS, <i>Chun Lin Yang (Student), Jia-Hong Huang, National Tsing Hua University, Taiwan</i>
9:40am	<b>MA1-1-TuM-6</b> High-Temperature Corrosion in Contact with Molten Glass Improved by Thermal Spray Coating, <i>Michelle Hartbauer (Student), University of Bayreuth, Germany; Thomas Dörflinger, Neue Materialien Bayreuth GmbH, Germany; Helge Schumann, Wiegand-Glashüttenwerke GmbH, Germany; Gilvan Barroso, Rauschert Heinersdorf-Pressig GmbH, Germany; Haneen Daoud, Neue Materialien Bayreuth GmbH, Germany; Florian Scherm, Uwe Glatzel, University of Bayreuth, Germany</i>	9:40am	<b>MA3-1-TuM-6</b> Superstoichiometric (Al,Cr) <sub>N<sub>x</sub></sub> Coatings with Superior Hardness, Fracture Toughness, and Wear Resistance, <i>Fedor F. KLIMASHIN, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; Martin Učík, PLATIT a.s., Czechia; Martin Matas, David Holec, Montanuniversität Leoben, Austria; Martin Beutner, Otto-von-Guericke-Universität Magdeburg, Germany; Jan Klusoň, Mojmír Jilek, PLATIT a.s., Czechia; Andreas Lümekmann, PLATIT AG, Switzerland; Johann Michler, Thomas E. J. Edwards, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland</i>
10:00am	<b>MA1-1-TuM-7</b> Microstructural Characterization and Isothermal Oxidation Behavior of a Nanolaminated Ti <sub>2</sub> AlC MAX Phase Coating on TiAl 48-2-2, <i>Radostaw Swadźba, Łukasiewicz Research Network – Upperciesian Institute of Technology, Poland; Bogustaw Mendala, Lucjan Swadźba, Silesian University of Technology, Poland; Nadine Laska, German Aerospace Center (DLR), Germany; Sarra Boubtane, German Aerospace Center, Germany; Dariusz Garbiec, Łukasiewicz Research Network – Poznań Institute of Technology, Poland</i>	10:00am	<b>MA3-1-TuM-7</b> Connecting Phase Stability and Mechanical Properties of Ti–B–N Thin Films, <i>Rebecca Janknecht, Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Tomasz Wójcik, TU Wien, Austria; Fedor F. Klimashin, Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Johann Michler, EMPA, Switzerland; Paul H. Mayrhofer, Rainer Hahn, TU Wien, Austria</i>
10:20am	<b>MA1-1-TuM-8</b> Harnessing Ti <sub>2</sub> AlN MAX Phase Based PVD Coatings on Titanium Aluminide Alloys for High Temperature Applications, <i>Sarra Boubtane, German Aerospace Center, Germany</i>	10:20am	<b>MA3-1-TuM-8</b> Effect of Oxygen Content and Thickness on the Property and Structure of Zr(O,N) Thin Film, <i>Chi Feng Hung (Student), Jia Hong Huang, National Tsing Hua University, Taiwan</i>
10:40am	<b>MA1-1-TuM-9</b> Empowering Pvd for Corrosion Protection: Ti(Al,Mg)Gdn Coatings with Game-Changing Corrosion Performance, <i>Holger Hoche, Grafenstraße 2, Germany</i>	10:40am	<b>MA3-1-TuM-9</b> Effect of Fluence on Zirconium Nitride Coating Irradiated by 5-MeV-Proton, <i>Rou-Syuan Chen (Student), Department of Engineering and System Science, National Tsing Hua University, Taiwan (ROC); Kuan-Che Lan, Institute of Nuclear Engineering and Science, National Tsing Hua University, Taiwan (ROC)</i>

# Tuesday Morning, May 13, 2025

<b>Surface Engineering - Applied Research and Industrial Applications</b> <b>Room Palm 1-2 - Session IA1-TuM</b> <b>Advances in Application Driven Research and Hybrid Systems, Processes and Coatings</b> <b>Moderators:</b> <b>Vikram Bedekar</b> , Timken Company, USA, <b>Hana Barankova</b> , Uppsala University, Sweden		<b>Surface Engineering - Applied Research and Industrial Applications</b> <b>Room Town &amp; Country D - Session IA2-2-TuM</b> <b>Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications II</b> <b>Moderators: Satish Dixit</b> , Plasma Technology Inc., USA, <b>Jan-Ole Achenbach</b> , KCS Europe GmbH, Germany, <b>Masaki Okude</b> , Mitsubishi Materials Corporation, Japan	
8:00am	<b>IA1-TuM-1</b> Advancing Correlative Microscopy: In-Situ Integration of AFM-SEM-EDS for Multi-Modal Analysis, <i>Kerim T. Arat</i> , <i>William K. Neils</i> , <i>Stefano Spagna</i> , Quantum Design Inc., USA	<b>INVITED: IA2-2-TuM-1</b> 2D Material-Based Coatings for Superlubricity in Dry Sliding and Rolling Contacts, <i>Diana Berman</i> , University of North Texas, USA	
8:20am	<b>IA1-TuM-2</b> Non-stick Hydrophobic and Superhydrophilic Metallic Coatings: Their PVD Fabrications and Applications, <i>Jinn P. Chu</i> , National Taiwan University of Science and Technology, Taiwan		
8:40am	<b>IA1-TuM-3</b> Novel CO <sub>2</sub> Laser Direct-Write Energy-Efficient Process for Functional Oxide-Carbon Composite Coatings and Their Energy Applications, <i>swati Jadhav (Student)</i> , <i>Pratibha jadhav</i> , <i>Ishwari Belle</i> , <i>Anuradha Ambalkar</i> , <i>Supriya Kadam</i> , <i>Satishchandra Ogale</i> , Indian Institute of Science Education and Research, Pune, India		
9:00am	<b>INVITED: IA1-TuM-4</b> PVD Coatings for the Hydrogen economy - Applications, Testing and Production, <i>Herbert Gabriel</i> , PVT Plasma und Vakuum Technik GmbH, Germany	<b>INVITED: IA2-2-TuM-4</b> Liquid Feedstock Thermal Spraying for Advanced Functional Coatings, <i>Shrikant Joshi</i> , University West, Sweden	
9:20am			

# Tuesday Morning, May 13, 2025

**Exhibitors Keynote Lecture**  
**Room Town & Country A - Session EX-TuM**  
**Exhibitors Keynote Lecture**  
**Moderator: Johanna Rosen**, Linköping University, Sweden

11:00am	<b>INVITED: EX-TuM-1</b> Surface Engineering and Rocket Science –Surface Engineering Solutions to Protect Spacecrafts and Ground Infrastructure Against Terrestrial and “Extraterrestrial” Harsh Environments, <i>Juan Flores Preciado</i> , SpaceX, USA	
11:20am		
11:40am		

# Tuesday Afternoon, May 13, 2025

<p><b>Surface Engineering - Applied Research and Industrial Applications</b>  <b>Room Palm 1-2 - Session IA3-TuA</b>  <b>Innovative Surface Engineering for Advanced Cutting and Forming Tool Applications</b>  <b>Moderators: Markus Esselbach</b>, Oerlikon Balzer, Liechtenstein,  <b>Christoph Schiffers</b>, CemeCon AG, Germany</p>		<p><b>Protective and High-temperature Coatings</b>  <b>Room Palm 3-4 - Session MA3-2-TuA</b>  <b>Hard and Nanostructured Coatings II</b>  <b>Moderators: Rainer Hahn</b>, TU Wien, Institute of Materials Science and Technology, Austria,  <b>Stanislav Haviar</b>, University of West Bohemia, Czechia,  <b>Fan-Yi Ouyang</b>, National Tsing Hua University, Taiwan</p>		
1:40pm	<p><b>IA3-TuA-1</b> Natural Rock Star: PVD-Functionalizing of Nature-Derived Materials for Cutting Applications, <i>Wolfgang Tillmann, Dominic Graf (Student), Nelson Filipe Lopes Dias</i>, TU Dortmund University, Germany; <i>Bernd Breidenstein, Berend Denkena, Benjamin Bergmann, Hilke Petersen</i>, Leibniz Universität Hannover, Germany</p>	<p><b>INVITED: MA3-2-TuA-1</b> Designing Nanocrystalline Alloys and Compounds: Unraveling Compositional and Microstructural Pathways to Exceptional Properties, <i>Rostislav Daniel, Michal Zitek, Tobias Ziegelwanger</i>, Montanuniversität Leoben, Austria; <i>Ranming Niu</i>, The University of Sydney, Australia; <i>Edoardo Rossi, Marco Sebastiani</i>, Università degli studi Roma Tre, Italy; <i>Petr Zeman, Stanislav Haviar</i>, University of West Bohemia, NTIS, Czechia; <i>Jozef Keckes</i>, Montanuniversität Leoben, Austria</p>		
2:00pm	<p><b>IA3-TuA-2</b> Properties and Metal Cutting Performance of High Entropy Nitride (HEN) and HEN-MN Coatings, <i>Abhijit Roy, Brittany Macshane</i>, Kennametal Inc., 1600 Technology Way, Latrobe, PA 15650, USA; <i>Joern Kohlscheen</i>, Kennametal GmbH, Altweiherstr. 27, 91320 Ebermannstadt, Germany; <i>Dev Banerjee</i>, Kennametal Inc., 1600 Technology Way, Latrobe, PA 15650, USA</p>			
2:20pm	<p><b>IA3-TuA-3</b> Surface Engineering of AlCrN-Coated Carbide through Laser Texturing for Performance Enhancement, <i>Yassmin Seid Ahmed</i>, KFUPM, Saudi Arabia</p>	<p><b>MA3-2-TuA-3</b> Evolution of the Pulsed-DC Powder-Pack Boriding Process: Exploring Low-Temperature Boride Layer Formation, <i>J.L. Rosales-Lopez (Student), M. Olivares-Luna, L.E. Castillo-Vela, I.E. Campos-Silva</i>, Instituto Politécnico Nacional, Mexico</p>		
2:40pm	<p><b>IA3-TuA-4</b> Advanced Cyclic Load Resistance of AlXN Coatings for Metal Forming Applications, <i>Simon Evertz, Stefan A. Glatz, Tobias Oellers, Markus Schenkel</i>, voestalpine eifeler Vacotec GmbH, Germany</p>	<p><b>MA3-2-TuA-4</b> Three-Fold Superstructured HfN/HfAlN Multilayers, <i>Marcus Lorentzon (Student)</i>, Linköping University, IFM, Thin Film Physics Division, Sweden; <i>Rainer Hahn</i>, TU Wien, Institute of Materials Science and Technology, Austria; <i>Lars Hultman, Justinas Palisaitis</i>, Linköping University, IFM, Thin Film Physics Division, Sweden; <i>Johanna Rosen</i>, Linköping University, IFM, Materials Design Division, Sweden; <i>Grzegorz Greczynski, Jens Birch, Naureen Ghafoor</i>, Linköping University, IFM, Thin Film Physics Division, Sweden</p>		
3:00pm		<p><b>MA3-2-TuA-5</b> Effects of Different Interlayer Layers on Residual Stress Relief in <math>\gamma</math>-MoN/Ti and <math>\gamma</math>-MoN/Mo Thin Films, <i>Ding-Hsuan Yang (Student), Jia-Hong Huang</i>, National Tsing Hua University, Taiwan</p>		
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>		<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	
3:40pm				

# Tuesday Afternoon, May 13, 2025

Room Palm 5-6		
1:40pm	<b>INVITED: MC2-1-TuA-1</b> Nanoscale Interface Engineering for Thin Films on Polymer Substrates, <b>Barbara Putz</b> , EMPA (Swiss Federal Laboratories for Materials Science and Technology), Switzerland	<b>Tribology and Mechanics of Coatings and Surfaces</b> <b>Session MC2-1-TuA</b> <b>Mechanical Properties and Adhesion I</b> <b>Moderators:</b> <b>Carsten Gachot</b> , TU Wien, Austria, <b>Alice Lassnig</b> , Austrian Academy of Sciences, Austria
2:00pm		
2:20pm	<b>MC2-1-TuA-3</b> Trilayer Fracture and Adhesion Investigated with in-Situ Synchrotron Radiation, <b>Megan J. Cordill</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria; <b>Shuhel Altaf Husain</b> , Université Sorbonne Paris Nord, France; <b>Claus O.W. Trost</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria; <b>Damien Faurie</b> , Université Sorbonne Paris Nord, France; <b>Pierre O. Renault</b> , University of Poitiers, Pprime Institute, France	
2:40pm	<b>MC2-1-TuA-4</b> The Model to Explain the Origin of Residual Thin Film Stress, <b>Tong Su (Student)</b> , Eric Chason, Brown University, USA	
3:00pm	<b>MC2-1-TuA-5</b> Novel Approach for Scratch Analysis of Ductile Metallic Layers on Fragile Substrates, <b>Mohammad Arab Pour Yazdi</b> , Pavel Sedmak, Anton Paar TriTec SA, Switzerland; <b>Parth Kotak</b> , Anton Paar USA; <b>Jiri Nohava</b> , Anton Paar TriTec SA, Switzerland	
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	
3:40pm		
4:00pm	<b>MC2-1-TuA-8</b> The Comparison in Microstructure and Mechanical Properties of MoN Films Deposited by RFMS and HiPIMS Techniques, <b>Chi-Yueh Chang (Student)</b> , National United University, Taiwan	
4:20pm	<b>MC2-1-TuA-9</b> Quantitative 3D FIB-SEM Characterization of Single Cu Particle Impacts for Cold Spray Applications, <b>Veera Panova (Student)</b> , Massachusetts Institute of Technology, USA; <b>Christopher Schuh</b> , Northwestern University, USA	
4:40pm	<b>MC2-1-TuA-10</b> Mechanical Properties and Deformation Mechanisms of Metallic Thin Films Synthesized by Pulsed Laser Deposition, <b>Francesco Bignoli</b> , Davide Vacirca, Philippe Djemia, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Andrea Li Bassi</b> , Department of Energy, Politecnico di Milano, Italy; <b>James Paul Best</b> , Gerhard Dehm, Max-Planck Institut für Eisenforschung, Germany; <b>Matteo Ghidelli</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France	

# Tuesday Afternoon, May 13, 2025

Room Town & Country A	
1:40pm	<b>INVITED: MA1-2-TuA-1</b> The Role of Circular Economy in Materials Science: Thermal Spray and Laser Coatings Originated from Abandoned Scrap for Protectiveness of Metallic Alloys at High Temperature, <i>Tomasz Dudziak, Filip Kateusz, Adelajda Polkowska, Lukaszewicz</i> - Krakow Institute of Technology, Poland
2:00pm	
2:20pm	<b>MA1-2-TuA-3</b> Advanced Chemical Vapor Deposition Technology for High Temperature Applications, <i>Natasa Djordjevic, Anne Zhang, Hristo Strakov</i> , IHI Bernex AG, Switzerland
2:40pm	<b>MA1-2-TuA-4</b> Magnetron Sputtering of Advanced Multi-Elemental Aluminide Thin Films: Impact of Alloying with Refractory Metals and Cu, <i>Vincent Ott, Michael Dürschnabel</i> , Karlsruhe Institute of Technology (KIT), Germany; <i>Tomasz Wojcik, Paul Mayrhofer, Helmut Riedl</i> , TU Wien, Austria; <i>Sven Ulrich, Michael Stüber</i> , Karlsruhe Institute of Technology (KIT), Germany
3:00pm	<b>MA1-2-TuA-5</b> Oxygen Concentration Governs High-Temperature Oxidation Behavior of $(Cr_{0.5}Al_{0.5})(O_{1-x}N_x)$ Thin Films, <i>Pauline Kümmerl (Student), Felix Leinenbach, Janani Ramesh</i> , RWTH Aachen University, Germany; <i>Daniel Primetzhofer</i> , Uppsala University, Sweden; <i>Marcus Hans, Jochen M. Schneider</i> , RWTH Aachen University, Germany
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
3:40pm	
4:00pm	<b>INVITED: MA2-1-TuA-8</b> Multicomponent Rare Earth Oxide Coatings for Refractory Alloys, <i>Rachel Rosner, Kristyn Ardrey, Will Riffe, Alejandro Salanova, Prasanna Balachandran, Bi-Cheng Zhou, Carolina Tallon, Jonathan Laurer, Jon Ihlefeld, Patrick Hopkins, Sandamal Witharamage, Elizabeth Opila</i> , University of Virginia, USA
4:20pm	
4:40pm	<b>MA2-1-TuA-10</b> Characterization of the Environmental Barrier Coatings with Al-containing dopants exposed to Steam Environments, <i>Michael Lance, Mackenzie Ridley</i> , Oak Ridge National Laboratory, USA

**Protective and High-temperature Coatings Session MA1-2-TuA**  
**Coatings to Resist High-temperature Oxidation, Corrosion, and Fouling II**  
**Moderators:**  
**Vladislav Kolarik**, Fraunhofer Institute for Chemical Technology ICT, Germany,  
**Eli Ross**, Pratt & Whitney, USA

**Protective and High-temperature Coatings Session MA2-1-TuA**  
**Thermal and Environmental Barrier Coatings I**  
**Moderators:**  
**Sabine Faulhaber**, University of California, San Diego,  
**Fernando Pedraza**, La Rochelle University, Laboratory LaSIE, France,  
**Francisco Javier Perez Trujillo**, Universidad Complutense de Madrid, Spain,  
**Gustavo García-Martín**, REP-Energy Solutions, Spain

# Tuesday Afternoon, May 13, 2025

<p><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>Nina Schalk</b>, Montanuniversität Leoben, Austria</p>		<p><b>Protective and High-temperature Coatings</b>  <b>Room Town &amp; Country D - Session MA4-1-TuA</b>  <b>High Entropy and Other Multi-principal-element Materials I</b>  <b>Moderators: Shih-Hsun Chen</b>, National Yang Ming Chiao Tung University (NYCU), Taiwan,  <b>Pavel Soucek</b>, Masaryk University, Czechia</p>	
1:40pm		<p><b>INVITED: MA4-1-TuA-1</b> Phase-Adjustable High-Entropy Alloy Coatings Prepared via Thermal Spray Process, <b>Shih-Hsun Chen</b>, NYCU, Taiwan</p>	
2:00pm	<p><b>INVITED: TS3-TuA-2</b> Scalable Solar-Thermal Synthesis of High-Yield Flake Graphite and Hydrogen, <b>Timothy S. Fisher</b>, University of California Los Angeles, USA</p>		
2:20pm		<p><b>MA4-1-TuA-3</b> Three Noble Metals, Three Different Stories: Unraveling the Complex Behavior of Cu, Ag, and Au in CrMnFeCoNi High-Entropy Alloy Thin Films, <b>Salah-eddine benrazzouq (Student)</b>, Institut Jean Lamour - Université de Lorraine, France; <b>Ekaterina V. Gunina</b>, <b>Svyatoslav Povarov</b>, School of Physics and Engineering, ITMO University, Russian Federation; <b>Jaafar Ghanbaja</b>, <b>Sylvie Migot</b>, <b>Alexandre Nominé</b>, <b>Jean François Pierson</b>, <b>Valentin A. Milichko</b>, Institut Jean Lamour - Université de Lorraine, France</p>	
2:40pm	<p><b>TS3-TuA-4</b> Developing Next Generation Sustainable Flexible Food Packaging Materials, <b>Peter Kelly</b>, Manchester Metropolitan University, UK; <b>Carolin Struller</b>, Bobst Manchester Ltd, UK; <b>Glen West</b>, Manchester Metropolitan University, UK; <b>Nick Copeland</b>, Bobst Manchester Ltd, UK; <b>Gwyneth Spence</b>, Manchester Metropolitan University, UK</p>	<p><b>MA4-1-TuA-4</b> Mechanical, Tribological and Corrosion Behavior of CoCrFeNiMn High-Entropy Thin Films, <b>Lin Wu (Student)</b>, McGill University, Canada; <b>León Zendejas Medina</b>, McGill University, KTH Royal Institute of Technology, Canada; <b>Richard Chromik</b>, <b>Janine Mauzeroll</b>, McGill University, Canada</p>	
3:00pm	<p><b>TS3-TuA-5</b> PFAS Free Anti-Stick Coatings for Superior Electrosurgical Performance, <b>Noora Manninen</b>, Oerlikon Surface Solutions, Liechtenstein; <b>Sanna Tervakangas</b>, Oerlikon Surface Solutions, Finland; <b>Klaus Boebel</b>, Oerlikon Surface Solutions, Liechtenstein</p>	<p><b>MA4-1-TuA-5</b> Microstructure and Mechanical Properties Evaluation of CoCrNiTiAl Multiple-Principal Element Alloy Thin Films: Effect of TiAl Additions, <b>Pongpak Chiyasak (Student)</b>, Department of Materials Engineering, Faculty of Engineering, Kasetsart University, Thailand; <b>Jun-Xing Wang</b>, Ming Chi University of Technology, Taiwan; <b>Chia-Lin Li</b>, Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; <b>Surapit Posri</b>, <b>Thanawat Santawee</b>, <b>Worawat Wattanathana</b>, <b>Aphichart Rodchanarowan</b>, Department of Materials Engineering, Faculty of Engineering, Kasetsart University, Thailand; <b>Jyh-Wei Lee</b>, Ming Chi University of Technology, Taiwan</p>	
3:20pm	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>		
3:40pm			
4:00pm	<p><b>TS3-TuA-8</b> Design of Defect Structure in an Epitaxial VN Bilayer Film by Tailoring Nitrogen Concentration and Interfacial Strain, <b>Marcus Hans</b>, <b>Damian Holzapfel</b>, RWTH Aachen University, Germany; <b>Zhuo Chen</b>, Erich Schmid Institute of Materials Science, Austria; <b>Soheil Karimi Aghda</b>, <b>Michal Fečík</b>, RWTH Aachen University, Germany; <b>Daniel Primetzhofer</b>, Uppsala University, Sweden; <b>Zaoli Zhang</b>, Erich Schmid Institute of Materials Science, Austria; <b>Jochen Schneider</b>, RWTH Aachen University, Germany</p>	<p><b>MA4-1-TuA-8</b> Effects of Deposition Parameters and Post-Annealing Treatment 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>Sen-You Hou</b>, Department of Materials Science and Engineering, National Tsing Hua University, 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>Po-Yu Chen</b>, Department of Materials Science and Engineering, National Tsing Hua University, Taiwan</p>	
4:20pm	<p><b>INVITED: TS3-TuA-9</b> Low Friction Sputtering Coatings, a Sustainable Option to Reduce Energy Consumption and Harmful Lubricant Usage, <b>Albano Cavaleiro</b>, University of Coimbra, Portugal</p>	<p><b>MA4-1-TuA-9</b> High Entropy Alloys Coatings for Inertial Confinement Fusion Hohlraums, <b>Leonardus Bimo Bayu Aji</b>, <b>Daniel Goodelman</b>, <b>David Strozzi</b>, <b>Brandon Bocklund</b>, <b>Scott Peters</b>, <b>Alison Engwall</b>, <b>Swanee Shin</b>, <b>Gregory Taylor</b>, <b>Eunjeong Kim</b>, <b>James Merlo</b>, <b>Sergei Kucheyev</b>, Lawrence Livermore National Laboratory, USA</p>	
4:40pm			

# Wednesday Morning, May 14, 2025

<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>Martin Rudolph</b> , Leibniz Inst. of Surface Eng. (IOM), Germany, <b>Shimizu Tetsushide</b> , Tokyo Metropolitan University, Japan		<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country A - Session MA2-2-WeM</b> <b>Thermal and Environmental Barrier Coatings II</b> <b>Moderators: Fernando Pedraza</b> , La Rochelle University, Laboratory LaSIE, France, <b>Francisco Javier Pérez Trujillo</b> , Universidad Complutense de Madrid, Spain	
8:00am	<b>PP2-1-WeM-1</b> Energetics and Chemistry of Cathodic Arc Ti-N Plasma: A Combinatorial Investigation Using Experimental Probes and Fluid Mechanical Modelling, <b>Nikolaos Giachalas (Student)</b> , Linköping Univ., IFM, Nanostructured Materials Div., Sweden; <b>Grzegorz Greczynski</b> , Linköping Univ., IFM, Thin Film Physics Div., Sweden; <b>Ferenc Taszadi</b> , Linköping Univ., IFM, Theoretical Physics Div., Sweden; <b>Lina Rogström</b> , <b>Magnus Odén</b> , Linköping Univ., IFM, Nanostructured Materials Div., Sweden		
8:20am	<b>PP2-1-WeM-2</b> Exploring the Microstructure and Mechanical Properties of TiZrMbTaMoN Highentropy Alloy Nitride Coating: Effect of Nitrogen Content, <b>Sen-You Hou (Student)</b> , National Tsing Hua University, Taiwan, China; <b>Po-Yu Chen</b> , National Tsing Hua University, Taiwan; <b>Bih-Show Lou</b> , Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan		
8:40am	<b>PP2-1-WeM-3</b> Insights into the Carbon HiPIMS Discharge: Ionized Flux Fraction and Ion Energy Distribution, <b>Tetsuhide Shimizu</b> , <b>Ryo Sakamoto</b> , <b>Erdong Chen</b> , Tokyo Metropolitan University, Japan; <b>Caroline Hain</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <b>Peter Klein</b> , Masaryk University, Czechia; <b>Daniel Lundin</b> , Linköping University, Sweden		
9:00am	<b>PP2-1-WeM-4</b> Reactive Mode Transition in Multi-Pulse HiPIMS Discharge of Vanadium in Ar/O <sub>2</sub> Gas Mixtures, <b>Erdong Chen (Student)</b> , <b>Tetsuhide Shimizu</b> , Tokyo Metropolitan University, Japan; <b>Caroline Hain</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <b>Stephanos Konstantinidis</b> , University of Mons, Belgium; <b>Daniel Lundin</b> , Linköping University, Sweden	<b>MA2-2-WeM-4</b> Sandphobic Thermal/Environmental Barrier Coatings for Gas Turbine Engines, <b>Andrew Wright</b> , <b>Clara Mock</b> , DEVCOM Army Research Laboratory, USA; <b>Timothy Sharobem</b> , Oerlikon Metco, USA; <b>Luis Bravo</b> , <b>Anindya Ghoshal</b> , DEVCOM Army Research Laboratory, USA	
9:20am	<b>PP2-1-WeM-5</b> HiPIMS goes Ferroelectric: Improving the Remnant Polarization and Leakage in Ferroelectric AlScN for Memory Applications, <b>Federica Messi</b> , <b>Jyotish Patidar</b> , <b>Nathan Rodkey</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <b>Morgan Trassin</b> , ETH Zurich, Switzerland; <b>Sebastian Sjol</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland	<b>MA2-2-WeM-5</b> A New Thermal Barrier Coating with Strong Resistance to Molten Silicate Attack and Fracture, <b>Ying Chen</b> , The University of Manchester, UK	
9:40am	<b>PP2-1-WeM-6</b> Controlling Film Growth by Changing the Target Thickness, <b>Diederik Depla</b> , <b>Farzaneh Ahangarani Farahani</b> , <b>Andreas Debrabandere</b> , Ghent University, Belgium	<b>MA2-2-WeM-6</b> Enhanced Oxidation Resistance of Ni substrate by Sputtered Nanotwinned Al <sub>5</sub> SiCo <sub>20</sub> Cr <sub>20</sub> Ni <sub>45</sub> NbMo <sub>4</sub> Medium-Entropy Alloy Thin Films at High Temperatures, <b>Jun-Hui Qiu (Student)</b> , <b>Yi-Chun Yen</b> , <b>Fan-Yi Ouyang</b> , Department of Engineering and System Science, National Tsing Hua University, Taiwan	
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> Effect of Nitrogen Content on the Microstructure, Mechanical, and Anti Corrosion Properties of AlCrNbSiTiN High Entropy Alloy Films Fabricated by High Power Impulse Magnetron Sputtering, <b>Sheng-Jui Tseng (Student)</b> , National Taipei University of Technology, Taiwan; <b>Chia-Lin Li</b> , Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; <b>Yung-Chin Yung</b> , National Taipei University of Technology, Taiwan; <b>Bih-Show Lou</b> , Chemistry Division, Center for General Education, Chang Gung University, Taiwan; <b>Jyh-Wei Lee</b> , Ming Chi University of Technology, Taiwan		
11:20am	<b>PP2-1-WeM-11</b> Effects of High-Power Impulse Plasma Source (HiPIPS) Parameters on the Properties of Aluminum Thin Films Synthesized at Atmospheric Pressure, <b>Brianna Hoff (Student)</b> , <b>Forest Thompson</b> , <b>Nathan Madden</b> , <b>Grant Crawford</b> , South Dakota School of Mines and Technology, USA		
11:40am	<b>PP2-1-WeM-12</b> Enhancing CrAl Ionization in HiPIMS Using Auxiliary Targets: Insights from Time-Averaged OES, <b>Kai-Shawn Tang (Student)</b> , <b>Ying-Xiang Lin</b> , <b>Chih-Yen Lin</b> , <b>Yi-Hui Lee</b> , <b>Wan-Yu Wu</b> , National United University, Taiwan		

# Wednesday Morning, May 14, 2025

	<b>Protective and High-temperature Coatings</b> <b>Room Palm 3-4 - Session MA3-3-WeM</b> <b>Hard and Nanostructured Coatings III</b> <b>Moderators: Rainer Hahn, TU Wien, Institute of Materials Science and Technology, Austria,</b> <b>Stanislav Haviar, University of West Bohemia, Czechia,</b> <b>Fan-Yi Ouyang, National Tsing Hua University, Taiwan</b>	<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country D - Session MA4-2-WeM</b> <b>High Entropy and Other Multi-principal-element Materials II</b> <b>Moderators:</b> <b>Jean-François Pierson, IJL - Université de Lorraine, France,</b> <b>Frederic Sanchette, Université de Technologie de Troyes, France</b>
8:00am	<b>MA3-3-WeM-1</b> Controlling Phase Selection, Preferred Orientation, and Van Der Waals or Conventional Epitaxy in Molybdenum Oxide Films, <b>Faezeh Alijan Farzad Lahiji (Student)</b> , Linköping University, IFM, Sweden; <b>Biplab Paul</b> , PLATIT AG, Switzerland; <b>Ganpati Ramanath</b> , Rensselaer Polytechnic Institute, USA; <b>Arnaud le Febvrier</b> , <b>Per Eklund</b> , Uppsala University, Angstrom Laboratory, Sweden	<b>INVITED: MA4-2-WeM-1</b> Oxidation Resistance of High Entropy Nitride Thin Films Deposited by Magnetron Sputtering, <b>Djallel Eddine Touaibia</b> , <b>Abdelhakim Bouissil</b> , <b>Sofiane Achache</b> , <b>Mohamed El Garah</b> , <b>Frederic Sanchette</b> , Université de Technologie de Troyes, France
8:20am	<b>MA3-3-WeM-2</b> Comparative Study of the Effect of W and Nb Addition on Microstructure and Properties of Zr-Cu-Based Thin-Film Metallic Glasses, <b>Deepika Thakur (Student)</b> , <b>Michaela Červená</b> , <b>Radomír Čerstvý</b> , <b>Petr Zeman</b> , University of West Bohemia - NTIS, Czechia	
8:40am	<b>MA3-3-WeM-3</b> Tailoring Nanostructure and Functional Properties of Sputter-Deposited Cu-Based Films by Zr Alloying, <b>Mariia Zhadko</b> , <b>Anna Benediktová</b> , <b>Radomír Čerstvý</b> , <b>Jiří Houška</b> , <b>Jiří Čapek</b> , <b>David Kolenatý</b> , <b>Pavel Baroch</b> , <b>Petr Zeman</b> , University of West Bohemia, Czechia	<b>MA4-2-WeM-3</b> Plasmonic Behaviour of Multi-Component Nitride (TiVZrNbTa) <sub>Nx</sub> Thin Films, <b>Miguel Piñeiro (Student)</b> , Institut Jean Lamour - Université de Lorraine, France, Peru; <b>Salah-Eddine Benrazzoug</b> , Institut Jean Lamour - Université de Lorraine, France, Morocco; <b>Valentin Milichko</b> , <b>David Pilloud</b> , <b>Thomas Easwarakhanthan</b> , Institut Jean Lamour - Université de Lorraine, France; <b>Frank Mücklich</b> , Saarland University, Germany; <b>Jean-François Pierson</b> , Institut Jean Lamour - Université de Lorraine, France
9:00am	<b>MA3-3-WeM-4</b> Influence of Bilayer Periodic Thickness Ratios on the Mechanical Properties and Corrosion Resistance of AlCrNbSiTiN/AlCrN High-Entropy Alloy Nitride Multilayer Thin Films, <b>Shang-Hua Tseng (Student)</b> , National Taiwan University of Science and Technology, Taiwan	<b>MA4-2-WeM-4</b> Temperature Stability of High Entropy Ceramic Cr-Hf-Mo-Ta-W-N Refractory Metal Coatings, <b>Pavel Soucek</b> , <b>Stanislava Debnarova</b> , <b>Matej Fekete</b> , Masaryk University, Czechia; <b>Sarka Zuzakova</b> , University of West Bohemia, NTIS, Czechia; <b>Shuyao Lin</b> , Technische Universität Vienna, Austria; <b>Ondrej Jasek</b> , <b>Tatiana Pitonakova</b> , Masaryk University, Czechia; <b>Nikola Koutna</b> , Technische Universität Vienna, Austria; <b>Petr Zeman</b> , University of West Bohemia, NTIS, Czechia
9:20am	<b>MA3-3-WeM-5</b> Impact of Microstructural Characteristics of HVOF-Deposited Cr <sub>3</sub> C <sub>2</sub> -Cermets Coatings on Their Performance in Sliding Abrasive Wear, <b>Xinqing Ma</b> , <b>Peter Ruggiero</b> , Curtiss-Wright Corporate, USA	<b>MA4-2-WeM-5</b> Influence of Si on Structural, Mechanical, and Thermal Properties of High Entropy Carbide Thin Films Based on (Hf, Ta, Ti, V, Zr), <b>Muhammad Awais Altaf (Student)</b> , <b>Alexander Kirnbauer</b> , <b>Balint Hajas</b> , TU Wien, Institute of Materials Science and Technology, Austria; <b>Szilard Kolozsvari</b> , Plansee Composite Materials GmbH, Germany; <b>Paul Mayrhofer</b> , TU Wien, Institute of Materials Science and Technology, Austria
9:40am	<b>MA3-3-WeM-6</b> Interface Amorphization Controls Maximum Wear Resistance of Multi-Nanolayer Carbon/WC Coatings, <b>Narguess Nemati</b> , Langtoftevej 9, Viby, Denmark	
10:00am	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>
10:20am		
10:40am		
11:00am		<b>MA4-2-WeM-10</b> The Microstructure, Mechanical Properties and Performance of High-Entropy (AlCrTiMoVNi) <sub>N</sub> Coatings Produced by Cathodic Arc Evaporation, <b>Qi Yang</b> , National Research Council of Canada; <b>Alex Lothrop</b> , <b>Xiao Huang</b> , Carleton University, Canada
11:20am		<b>MA4-2-WeM-11</b> Correlating the Structural and Mechanical Properties of (AlCrNbSiTi) <sub>N</sub> Thin Films as a Function of Substrate Bias, <b>Vinay Joru (Student)</b> , <b>Sudharshan Phani Pardhasaradhi</b> , <b>Venkata Girish Kotnur</b> , University of Hyderabad, India
11:40am		<b>MA4-2-WeM-12</b> Effect of Elemental Concentration on Mechanical and Tribological Properties of (AlNbSiTiZr) <sub>N</sub> Thin Films, <b>Tongyue Liang (Student)</b> , <b>Stéphanie Besette</b> , <b>Raynald Gauvin</b> , <b>Richard Chromik</b> , McGill University, Canada

# Wednesday Morning, May 14, 2025

	<p><b>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials</b>  <b>Room Palm 1-2 - Session MD2-WeM</b>  <b>Surface Response to Biological Environments, Biointerphases, and Regenerative Biomaterials</b>  <b>Moderators: Po-Chun Chen</b>, National Taipei University of Technology, Taiwan,  <b>Jean Geringer</b>, Ecole Nationale Supérieure des Mines, France,  <b>Hamdy Ibrahim</b>, University of Tennessee at Chattanooga, USA</p>	<p><b>Tribology and Mechanics of Coatings and Surfaces</b>  <b>Room Palm 5-6 - Session MC2-2-WeM</b>  <b>Mechanical Properties and Adhesion II</b>  <b>Moderators:</b>  <b>Nagamani Jaya Balila</b>, Indian Institute of Technology Bombay, India,  <b>Bo-Shiuan Li</b>, National Sun-Yat Sen University, Taiwan</p>
8:00am	<p><b>INVITED: MD2-WeM-1</b> Modulating Cell Responses via Surface Engineering, <b>Huinan Liu</b>, University of California, Riverside, USA</p>	<p><b>INVITED: MC2-2-WeM-1</b> Adhesion, Delamination and Cracking of Thermal Spray Coatings: Understanding Critical Phenomena During Processing and Service, <b>Sanjay Sampath</b>, Stony Brook University, USA</p>
8:20am		
8:40am	<p><b>INVITED: MD2-WeM-3</b> Nanomaterials and Thin Films: Revolutionizing Bio-Applications for Early Disease Detection, <b>Samir Iqbal</b>, University of Texas at Rio Grand Valley, USA</p>	<p><b>MC2-2-WeM-3</b> A Study on the Surface Morphology and Tribological Behavior of Hydrided Zircaloy, <b>Jun Xian Lin (Student)</b>, <b>Kuan-Che Lan</b>, National Tsing Hua University, Taiwan</p>
9:00am		<p><b>MC2-2-WeM-4</b> Effects of Stored Elastic Energy and Stress Gradients on the Tribological Behavior of TiN Coatings on D2 Steel, <b>I-Sheng Ting (Student)</b>, <b>Jia-Hong Huang</b>, National Tsing Hua University, Taiwan</p>
9:20am	<p><b>INVITED: MD2-WeM-5</b> Green Fabrication of Conductive Carbon Thin Film Patterns for Biosensors, <b>Ying-Chih Liao</b>, National Taiwan University, Taiwan</p>	<p><b>MC2-2-WeM-5</b> Adhesion at the Glass/Metal interface probed by Colored Picosecond Acoustics, <b>Arnaud Devos</b>, IEMN, France</p>
9:40am		<p><b>MC2-2-WeM-6</b> The Mechanical and Tribological Performance of (V,Mo)N Coatings Deposited by Magnetron Sputtering, <b>Yuqun Feng</b>, <b>Jia-Hong Huang</b>, National Tsing Hua University, Taiwan</p>
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: MD2-WeM-10</b> Functionalized Graphene for Sensor Applications, <b>Chi-Hsien Huang</b>, Ming Chi University of Technology, Taiwan</p>	
11:20am		

# Wednesday Morning, May 14, 2025

<p><b>Tribology and Mechanics of Coatings and Surfaces</b>  <b>Room Town &amp; Country C - Session MC3-1-WeM</b>  <b>Tribology of Coatings and Surfaces for Industrial Applications I</b>  <b>Moderators: Rainer Cremer, KCS Europe GmbH, Germany,</b>  <b>Stephan Tremmel, University of Bayreuth, Germany</b></p>		
8:00am		
8:20am		
8:40am		
9:00am	<p><b>MC3-1-WeM-4</b> Cyclic and Randomized Micro-Impact Tests of Coatings for Erosion Protection: Role of Multilayer Structure in Providing Damage Tolerance, <b>Ben Beake</b>, Micro Materials Ltd, UK; <b>Daniel Tobola</b>, Lukaszewicz Research Network, Krakow Institute of Technology, Poland; <b>Lukasz Maj</b>, Institute of Metallurgy and Materials Science of Polish Academy of Sciences, Krakow, Poland; <b>Tomasz Liskiewicz</b>, Manchester Metropolitan University, UK; <b>Puneet Chandran</b>, Lukaszewicz Research Network, Krakow Institute of Technology, Poland</p>	
9:20am	<p><b>MC3-1-WeM-5</b> Effect of Bias Voltage and Temperature on the Structural and Tribo-Mechanical Properties of Chemically Complex Tisibcn Nanocomposites, <b>Wolfgang Tillmann</b>, <b>Julia Urbanczyk</b>, TU Dortmund University, Germany; <b>Alexander Thewes</b>, TU Braunschweig University, Germany; <b>Nelson Filipe Lopes Dias</b>, TU Dortmund University, Germany</p>	
9:40am	<p><b>MC3-1-WeM-6</b> Lubrication Mechanism of CrAIN+MoWS Coatings in Gear Contacts under Dry Rolling-Sliding Conditions, <b>Kirsten Bobzin</b>, <b>Christian Kalscheuer</b>, <b>Max Philip Möbius</b>, <b>Marta Miranda Marti</b>, Surface Engineering Institute - RWTH Aachen University, Germany</p>	
10:00am	<b>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</b>	
10:20am		
10:40am		
11:00am	<p><b>MC3-1-WeM-10</b> Wear Protection via Triboactive CrAlMoN Coatings in Chain Drives, <b>Kirsten Bobzin</b>, <b>Christian Kalscheuer</b>, <b>Max Philip Möbius</b>, Surface Engineering Institute - RWTH Aachen University, Germany; <b>Martin Rank</b>, <b>Oliver Koch</b>, Institute of Machine Elements, Gears and Tribology - RPTU Kaiserslautern-Landau, Germany</p>	
11:20am	<p><b>INVITED: MC3-1-WeM-11</b> Tribological Contact Formation on PVD-Coated Tools, <b>Aljaz Drnovsek</b>, <b>Peter Panjan</b>, <b>Matjaž Panjan</b>, <b>Miha Čekada</b>, Jožef Stefan Institute, Slovenia</p>	
11:40am		
12:00pm	<p><b>MC3-1-WeM-13</b> Effect of Transition Metals (Nb, V, and Ta) Doping on the High-Temperature Mechanical and Tribological Properties of CrYN Coatings, <b>Gokhan Gulen</b>, <b>Banu YAYLALI</b>, <b>Mustafa YESILYURT</b>, <b>Yasar TOTIK</b>, Atatürk University, Turkey; <b>Justyna Kulczyk Malecka</b>, <b>Peter Kelly</b>, Manchester Metropolitan University, U.K.; <b>Ihsan EFEUGLU</b>, Atatürk University, Turkey</p>	

# Wednesday Afternoon, May 14, 2025

## Keynote Lectures

Room Town & Country A - Session KYL-WeKYL

### Keynote Lecture II

Moderator: Peter Kelly, Manchester Metropolitan University, UK

1:00pm

**INVITED: KYL-WeKYL-1** Spatial Atomic Layer Deposition for High Throughput Industrial Production of Lithium-Ion Batteries and Photovoltaic Cells, *Tommi Kääriäinen*, Beneq, USA

1:20pm

# Wednesday Afternoon, May 14, 2025

	<b>Functional Thin Films and Surfaces</b> <b>Room Palm 1-2 - Session MB1-WeA</b> <b>Thin Films and Surfaces for Optical Applications</b> <b>Moderators:</b> <b>Rajiv Pethe</b> , Vital Chemicals, USA, <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>Tetsushide Shimizu</b> , Tokyo Metropolitan University, Japan, <b>Martin Rudolph</b> , Leibniz Inst. of Surface Eng. (IOM), Germany
2:00pm	<b>INVITED: MB1-WeA-1</b> Experimental and Theoretical Insights into UV-Active Chirality in Glancing Angle Deposited Zirconia Nano-Helical Metamaterial Platforms, <b>Ufuk Kilic</b> , <i>Matthew Hilfiker</i> , University of Nebraska-Lincoln, USA; <i>Shawn Wimer</i> , <i>Raymond Smith</i> , University of Nebraska - Lincoln, USA; <i>Christos Argyropoulos</i> , Pennsylvania State University, USA; <i>Eva Schubert</i> , <i>Mathias Schubert</i> , University of Nebraska - Lincoln, USA	<b>INVITED: PP2-2-WeA-1</b> Introducing an Ionization Region Model for Reactive High-Power Impulse Magnetron Sputtering, <b>Daniel Lundin</b> , <i>Joel Fischer</i> , Linköping University, Sweden; <i>Martin Rudolph</i> , Leibniz Institute of Surface Engineering (IOM), Germany; <i>Jon Tomas Gudmundsson</i> , University of Iceland
2:20pm		
2:40pm	<b>MB1-WeA-3</b> Optical and Electrical Properties of Thermochromic W-Doped VO <sub>2</sub> Films Prepared at a Reduced Temperature (350 °C) on Glass Substrates with YSZ Interlayers, <b>Sadoon Farrukh (Student)</b> , <i>Jaroslav Vlček</i> , <i>Jiří Rezek</i> , <i>Radomír Čerstvý</i> , <i>Jiří Houška</i> , <i>Tomáš Kozák</i> , University of West Bohemia - NTIS, Czechia	<b>PP2-2-WeA-3</b> Investigation of Surface Bond Structure and Colour Variations in Thin Films Deposited via Aca and Hipims Techniques, <b>Milena Pazzi (Student)</b> , <i>Giovanni Bolelli</i> , Università degli Studi di Modena e Reggio Emilia, Italy; <i>Andreas Fuchs</i> , <i>Daniel Barnholt</i> , <i>Philipp Immich</i> , Hauzer Technocoating, Netherlands; <i>Luca Lusvardi</i> , Università degli Studi di Modena e Reggio Emilia, Italy
3:00pm	<b>MB1-WeA-4</b> Enhancing Optical Properties and Photocatalytic Performance with Nanopatterned Anodized Aluminum Oxide on transparent substrate, <b>Fu-Gi Zhong (Student)</b> , <i>Shih-Hsun Chen</i> , National Yang Ming Chiao Tung University (NYCU), Taiwan	<b>PP2-2-WeA-4</b> On Unipolar and Bipolar Hipims Pulse Configurations to Enhance Energy and Ion Flux to Insulating Substrates, <b>Mina Farahani (Student)</b> , <i>Tomáš Kozák</i> , <i>Jiří Čapek</i> , University of West Bohemia - NTIS, Czechia
3:20pm	<b>MB1-WeA-5</b> A Comparative Study: The Structural and Optoelectronic Properties of Al- and Ga-Doped ZnO Films Deposited by Atmospheric Pressure Plasma Jet, <b>Chih-Yun Chou (Student)</b> , National Taiwan University, Taiwan	<b>PP2-2-WeA-5</b> Influences of Target Poisoning on the Phase, Microstructure, and Mechanical Properties of Crmonbtwcc High Entropy Alloy Carbide Thin Films Grown by a Superimposed Highpower Impulse and Medium-Frequency Magnetron Sputtering System, <b>Tse Wei Chen (Student)</b> , <i>Chia-Lin Li</i> , Ming Chi University of Technology, Taiwan; <i>Bih Show Lou</i> , Chemistry Division, Center for General Education, Chang Gung University, Taoyuan, Taiwan; <i>Jyh Wei Lee</i> , Ming Chi University of Technology, Taiwan
3:40pm	<b>MB1-WeA-6</b> Unveiling the Interplay of Structural, Optical, and Hydrophobic Properties of Sputtered Grown PTFE@AlSiN Thin Films, <b>Raman Devi</b> , <i>Somdatta Singh</i> , <b>Ramesh Chandra</b> , IIT Roorkee, India	<b>PP2-2-WeA-6</b> Novel Superimposed HiPIMS/RF Sputtering Process on a Single Magnetron, <b>Mark Günter</b> , Melec GmbH, Germany; <b>Caroline Adam</b> , Melec GmbH, Kiel University, Germany
4:00pm	<b>MB1-WeA-7</b> High-Entropy Oxide Thin Film as Absorber Layer for Near Infrared Photodetectors, <b>Shao-Chun Chao (Student)</b> , <i>Tai-An Chen</i> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan	<b>PP2-2-WeA-7</b> Towards Ti-Si-C MAX-based coatings via reactive cathodic arc evaporation: Advanced Characterization and Process Optimization, <b>Arno Gitschthaler</b> , <i>Rainer Hahn</i> , TU Wien, Institute of Materials Science and Technology, Austria; <i>Jürgen Ramm</i> , <i>Carmen Jerg</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>Szilárd Kolozsvári</i> , <i>Peter Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>Eleni Ntemou</i> , <i>Daniel Primetzhofer</i> , Uppsala University, Sweden; <i>Helmut Riedl</i> , TU Wien, Institute of Materials Science and Technology, Austria
4:20pm	<b>MB1-WeA-8</b> Effective Ways to Enhance the Performance of N-MoS <sub>2</sub> /P-Cuo Heterojunction Based Self-Powered Photodetectors, <b>Davinder Kaur</b> , Indian Institute of Technology Roorkee, India	<b>PP2-2-WeA-8</b> Influence of Pulse Duration on Plasma Chemistry and Thin Film Growth of Plasmonic Titanium Nitride Deposited by Constant Current Regulated HIPIMS, <b>Ethan Muir (Student)</b> , <i>Arutjun Ehasarian</i> , Sheffield Hallam University, United Kingdom; <i>Ryan Bower</i> , Imperial College London, UK; <i>Yashodhan Purandare</i> , Sheffield Hallam University, United Kingdom
4:40pm	<b>MB1-WeA-9</b> Influence of SHI irradiation on the Photoluminescence and Dielectric properties of bilayer structured Au/GeO <sub>2</sub> thin films for Optoelectronics applications, <b>Mahendra Singh Rathore</b> , <i>Anand Y. Joshi</i> , Parul University, India; <i>Srinivasa Rao N.</i> , MNIT Jaipur, India	<b>PP2-2-WeA-9</b> Monitoring Vanadium Nitride Thin Film Deposited by Reactive Hipims: From Microstructure to Properties, <b>Julien Neyrat</b> , <i>Marjorie Cavarroc</i> , Safran, France; <i>Angeline Poulon</i> , CNRS, Université de Bordeaux - ICMCB, France

# Wednesday Afternoon, May 14, 2025

<b>Plasma and Vapor Deposition Processes</b> <b>Room Palm 3-4 - Session PP3-WeA</b> <b>ALD, CVD Coating Technologies</b> <b>Moderators:</b> <b>Hiroki Kondo</b> , Kyushu University, Japan, <b>Frederic Mercier</b> , University of Grenoble Alpes, France		<b>Protective and High-temperature Coatings</b> <b>Room Town &amp; Country D - Session MA4-3-WeA</b> <b>High Entropy and Other Multi-principal-element</b> <b>Materials III</b> <b>Moderators:</b> <b>Jean-François Pierson</b> , IJL - Université de Lorraine, France, <b>Pavel Soucek</b> , Masaryk University, Czechia	
2:00pm	<b>INVITED: PP3-WeA-1</b> Electrical Conductivity as a New Parameter for SAMs-Free Area-Selective Atomic Layer Deposition, from Principles to Photoconversion Devices, <b>David Horwat</b> , Institut Jean Lamour/Université de Lorraine, France		<b>MA4-3-WeA-1</b> Few-Layered Multi-Transition Metal Chalcogenide Heterostructured Alloy Absorber for High-Performance Photodetector, <b>Chia-Ying Su</b> , National Cheng Kung University, Taiwan; <b>I-Hsi Chen</b> , <b>Jyh-Ming Ting</b> , National Cheng Kung University (NCKU), Taiwan
2:20pm			<b>MA4-3-WeA-2</b> Sputter Deposition of Ta-W-Au-Bi High Entropy Alloys for Inertial Confinement Fusion Hohlraums, <b>Daniel Goodelman</b> , Lawrence Livermore National Laboratory, USA; <b>Nikhil Vishnoi</b> , <b>Gregory Taylor</b> , <b>Eunjeong Kim</b> , <b>Alison Engwall-Holmes</b> , <b>Swanee Shin</b> , <b>David Strozzi</b> , <b>Brandon Bocklund</b> , <b>Scott Peters</b> , <b>Sergei Kucheyev</b> , <b>Leonardus Bimo Bayu Aji</b> , Lawrence Livermore Laboratory, USA
2:40pm			<b>MA4-3-WeA-3</b> ADREnALINE : Accelerated Design of Revolutionary Entropy-Augmented, Lasting and Innovative NitridEs – First Results on Oxidation Resistance of Binary and Ternary Nitrides, <b>Ludovic Méreaux</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
3:00pm	<b>INVITED: PP3-WeA-4</b> Selective Generation of Nanoparticles in Plasma-Enhanced CVD and Deposition of Carbon Films with Low Compressive Stress, <b>Kazunori Koga</b> , Kyushu University, Japan		<b>MA4-3-WeA-4</b> Effect of Substrate Bias on Structural and Mechanical Properties of (MoNbTaW)N Coatings Deposited by Reactive DC Magnetron Sputtering, <b>Saikumar Katta (Student)</b> , University of Hyderabad, India
3:20pm			<b>MA4-3-WeA-5</b> Effect of Substrate Bias Voltage on Microstructure and Mechanical Behaviour of Equimolar VCrCoNi Alloy Thin-films Deposited via Unbalanced Magnetron Sputtering, <b>Razie Hanafi (Student)</b> , UNSW, Australia; <b>Yujie Chen</b> , University of Adelaide, Australia; <b>Zhifeng Zhou</b> , City University of Hong Kong; <b>Zonghan Xie</b> , University of Adelaide, Australia; <b>Paul Munroe</b> , UNSW, Australia
3:40pm			
4:00pm	<b>PP3-WeA-7</b> Direct ALD Deposition by $\mu$ DALP™. Precision Coatings for Next Gen Devices, <b>Mira Baraket</b> , ATLANT 3D Nanosystems, Denmark		
4:20pm	<b>PP3-WeA-8</b> Temperature Influence on the Chemical Vapor Deposition of Nitrogen-Doped SiC Polycrystalline Films for Brain-Implantable Devices, <b>Michalis Gavalas</b> , SIMaP, CNRS, University Grenoble Alpes, France; <b>Konstantinos Zekentes</b> , Microelectronics Group/IESL-FORTH, University of Crete, Hellas, Greece; <b>Frederic Mercier</b> , SIMaP, CNRS, University Grenoble Alpes, France		

# Wednesday Afternoon, May 14, 2025

	<p><b>Topical Symposium on Sustainable Surface Engineering</b>  <b>Room Palm 5-6 - Session TS2-WeA</b>  <b>(Photo)electrocatalysis and Solar/Thermal Conversion</b>  <b>Moderators: Atasi Dan</b>, National Institute of Standards and Technology (NIST), USA,  <b>Arnaud Le Febvrier</b>, Uppsala University, Sweden,  <b>Carlos Tavares</b>, University of Minho, Portugal</p>	<p><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:</b>  <b>Osman Levent Eryilmaz</b>, Oak Ridge National Laboratory, USA,  <b>Giovanni Ramirez</b>, Zeiss Industrial Quality Solutions, USA</p>
2:00pm	<p><b>INVITED: TS2-WeA-1</b> Flexible Thermoelectrics: Transforming Wearables, Space Exploration, and IoT, <b>André Pereira</b>, University of Porto, Portugal</p>	<p><b>MC3-2-WeA-1</b> Effect of Electrical Current Application on the Tribological Properties of Soft and Hard ta-C Coatings on HSS Substrates, <b>Amir Masoud Khodadadi Behtash (Student)</b>, University of Windsor, Canada; <b>Woo-Jin Choi, Jongkuk Kim</b>, Korea Institute of Materials Science, Korea (Democratic People's Republic of); <b>Ahmet T. Alpas</b>, University of Windsor, Canada</p>
2:20pm		<p><b>MC3-2-WeA-2</b> Impact of Electrification on the Tribological Performance of Metal Doped a-C Coatings, <b>Miguel Rubira Danelon (Student)</b>, Newton Kyioshi Fukumasu, Roberto Martins de Souza, André Paulo Tschiptschin, University of São Paulo, Brazil</p>
2:40pm	<p><b>TS2-WeA-3</b> Alloy/Phosphate Heterostructure as High-Performance Hydrogen Evolution Reaction Electrocatalyst, <b>Yung Hsun Yen (Student)</b>, National Cheng Kung University (NCKU), Taiwan; <b>Thi Xuyen Nguyen</b>, National Cheng Kung University (NCKU), Taiwan; <b>Jyh Ming Ting</b>, National Cheng Kung University (NCKU), Taiwan</p>	<p><b>MC3-2-WeA-3</b> Graphene-Related Materials: Bridging Fundamental Tribology and Industrial Applications Across Multifarious Environments, <b>Mingi Choi (Student)</b>, Ji-Woong Jang, Pusan National University, Republic of Korea; <b>Anirudha Sumant</b>, Argonne National Laboratory, USA, India; <b>Ivan Vlasiouk</b>, Oak Ridge National Laboratory, USA, Russian Federation; <b>Jae-Il Kim</b>, Korea Institute of Materials Science, Republic of Korea; <b>Young-Jun Jang</b>, Korea Institute of Material Science, Republic of Korea; <b>Songkil Kim</b>, Pusan National University, Republic of Korea</p>
3:00pm	<p><b>TS2-WeA-4</b> Ni-Co Based Catalysts for the Upcycling of Polyethylene Terephthalate, <b>Ruei Chi Lin (Student)</b>, National Cheng Kung University (NCKU), Taiwan; <b>Thi Xuyen Nguyen</b>, National Cheng Kung University (NCKU), Taiwan; <b>Jyh Ming Ting</b>, National Cheng Kung University (NCKU), Taiwan</p>	<p><b>MC3-2-WeA-4</b> Evaluation of the Reduced Bearing Wear Through Plasma Nitriding for Use in Wind Turbines, <b>Arthur Cid de Abreu, Rayane Dantas da Cunha, João Freire de Medeiros Neto, Salete Martins Alves</b>, Federal University of Rio Grande do Norte, Brazil</p>
3:20pm	<p><b>TS2-WeA-5</b> Single Atom Ag Bonding between PF3T nanocluster and TiO<sub>2</sub> leads the Ultra-stable Visible-Light-Driven Photocatalytic H<sub>2</sub> Production, <b>Tsan-Yao Chen, Fan-Gang Tseng</b>, National Tsing Hua University, Taiwan; <b>Jyh-Pin Chou</b>, National Taiwan University, Taiwan</p>	<p><b>MC3-2-WeA-5</b> Plasma Nitriding of Quartz, <b>Stephen Muhl</b>, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; <b>Julio Cruz, Marco Martinez</b>, instituto de investigaciones en Materiales, Universidad Nacional Autónoma de México</p>
3:40pm	<p><b>INVITED: TS2-WeA-6</b> Transition Metal-Based Electrocatalysts for Sustainable Oxygen Reactions in Green Energy Applications, <b>Emma Björk</b>, Linköping University, IFM, Sweden</p>	<p><b>MC3-2-WeA-6</b> Penetrability: A New Parameter for Wear Estimation of Multilayer Coatings, <b>Muhammad Usman</b>, City University of Hong Kong</p>
4:00pm		
4:20pm	<p><b>TS2-WeA-8</b> Bi-Based Photocatalysts Obtained by Reactive Sputtering for the CO<sub>2</sub> Photoreduction – from Thin Films and Composites to Nanoparticles, <b>Angélique Bousquet, Sara Ibrahim, Jean-Michel Andanson, Pierre Bonnet</b>, Institut de Chimie de Clermont-Ferrand, France; <b>Mireille Richard-Plouet</b>, Institut des Matériaux, France; <b>Maryline Le Granvalet</b>, Institut des Matériaux de Nantes, France; <b>Sébastien Roth, Audrey Bonduelle</b>, Institut Français du Pétrole, Energies Nouvelles, France</p>	

# Wednesday Afternoon, May 14, 2025

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

5:45pm		
6:05pm	<b>INVITED: HL-WeHL-2</b> R.F. Bunshah Award and ICMCTF Lecture Invited Talk, <i>Ludvik Martinu</i> <sup>1</sup> , Polytechnique Montréal, Canada	
6:25pm		

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

# Thursday Morning, May 15, 2025

<b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b> <b>Room Palm 1-2 - Session CM1-1-ThM</b> <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I</b> <b>Moderators: Barbara Putz, Empa Thun, Switzerland, Aparna Saksena, MPI für Eisenforschung GMBH, Germany</b>		<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 Testing of Surfaces, Thin Films, Coatings and Small Volumes I</b> <b>Moderators: Matteo Ghidelli, CNRS, France, David Holec, Montanuniversität Leoben, Austria</b>	
8:00am		<b>INVITED: CM2-1-ThM-1</b> Nano-Mechanical Characterization and Modeling of Plasticity in Metallic Materials, <b>Takahito Ohmura</b> , Kyushu University/NIMS, Japan	
8:20am			
8:40am	<b>INVITED: CM1-1-ThM-3</b> Analysis of Deuterium by Atom Probe Tomography (Apt) - D in V Films and Fe/V Multi-Layered Films, <b>Ryota Gemma</b> , Tokai University, Japan; <b>Talaat Al-Kassab, Astrid Pundt</b> , University of Göttingen, Germany	<b>CM2-1-ThM-3</b> Accelerating Workflows for High-Throughput Nanoindentation, <b>Eric Hintsala, Kevin Schmalbach, Douglas Stauffer</b> , Bruker Nano Surfaces, USA	
9:00am		<b>CM2-1-ThM-4</b> Understanding the Fracture Behavior, Interface Characteristics of Micro and Nanocrystalline Diamond Laminates Through Flexural Studies, <b>Krishna Sarath Kumar Busi (Student)</b> , Technical University Darmstadt, Germany; <b>Tim Fuggerer</b> , University of Erlangen-Nuremberg, Germany; <b>Sebastian Bruns</b> , Technical University Darmstadt, Germany; <b>Timo Fromm, Stefan M Rosiwal</b> , University of Erlangen-Nuremberg, Germany; <b>Karsten Durst</b> , Technical University Darmstadt, Germany	
9:20am	<b>CM1-1-ThM-5</b> Improving the Elemental Accuracy and Imaging Precision in Atom Probe Tomography of TiSiN Coatings Using Isotopic Substitution and Peak Decomposition, <b>Saeideh Naghdali, Maximilian Schiester</b> , Montanuniversität Leoben, Austria; <b>Marcus Hans</b> , RWTH Aachen University, Germany; <b>Markus Pohler, Christoph Czettl</b> , CERATIZIT Austria GmbH, Austria; <b>Michael Tkadletz, Nina Schalk</b> , Montanuniversität Leoben, Austria	<b>CM2-1-ThM-5</b> Deposition of Hierarchical Ti/Ti <sub>2</sub> AlC Metal/MAX Multilayered Nanolaminates and Investigating their Mechanical Properties and Deformation Mechanisms, <b>Amruta Vaghela (Student)</b> , Iowa State University, USA; <b>Skye Supakul</b> , Pacific Northwest National Laboratory, USA; <b>Kevin Jacob, Sid Pathak</b> , Iowa State University, USA	
9:40am	<b>CM1-1-ThM-6</b> Monitoring Thin Film Battery Electrodes via in-Situ/in-Operando Ellipsometry, <b>Máté Füredi</b> , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; <b>Jialin Gu, Adam Lovett</b> , University College London, UK; <b>Bálint Fodor, András Marton</b> , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; <b>Stefan Guldin</b> , Technical University of Munich, Germany; <b>Thomas Miller</b> , University College London, UK	<b>CM2-1-ThM-6</b> Effect of Fe Addition on the Structural, Mechanical and Electrical Properties of (ZrCu) <sub>1-x</sub> Fe <sub>x</sub> Thin Film Metallic Glass, <b>Evgeny Boltynjuk, Yulia Ivanisenko</b> , KIT, Germany; <b>Marco Ezequiel, Francesco Bignoli, Damien Faurie, Philippe Djemia, Matteo Ghidelli</b> , CNRS, France; <b>Horst Hahn</b> , Oklahoma State University, USA	
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am	<b>CM1-1-ThM-8</b> RBS Study of PiTi and NiTi Multilayer Thin Film for Hydrogen Generation and Water Splitting, <b>Enos Nemukula</b> , University of Venda, South Africa; <b>Christopher Mtshali</b> , iThemba laboratoty, South Africa; <b>Fhulufhelo Nemangwele</b> , University of Venda, South Africa	<b>INVITED: CM2-1-ThM-8</b> Mechanical Properties of Thin Films Studied using 4D-STEM, <b>Christoph Gammer</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <b>Alice Lassnig</b> , Montanuniversität Leoben, Leoben, Austria; <b>Lukas Schretter, Simon Fellner</b> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <b>Jürgen Eckert</b> , Montanuniversität Leoben, Leoben, Austria	
10:40am	<b>CM1-1-ThM-9</b> Exploring the Benefits of Automated, Redox Reactions in XPS Analysis, <b>James Lallo</b> , Thermo Fisher Scientific, UK, USA; <b>Robin Simpson, Paul Mack, Tim Nunney</b> , Thermo Fisher Scientific, UK		
11:00am	<b>CM1-1-ThM-10</b> Hydrofluoric (HF) Acid Corrosion Study of Corrosion Resistant Alloys Used in Semi-Conductor Etching Process Equipment, <b>Donald Williams, Kayvon Savadkouei, Brian Chung, Brad Drake, Patrick Lowery, Andrey Krayev, Eddy Robinson</b> , Horiba Instruments Inc., USA	<b>CM2-1-ThM-10</b> Investigating the Interplay between Biaxial Multicracking of Nanometric Thin Films and Their Magnetic Properties: A Nuanced Separation of Magnetoelastic and Magnetostatic Effects, <b>Hatem Ben Mahmoud, Damien Faurie</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <b>Pierre-Olivier Renault, Pierre Godard</b> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <b>Dominique Thiaudière, Philippe Joly, Christian Mocuta</b> , Soleil Synchrotron, France; <b>Eloi Haltz, Noël Girodon-Boulandet, Fatih Zighem</b> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France	
11:20am	<b>CM1-1-ThM-11</b> Numerical Ellipsometry: Artificial Intelligence Based Real-Time, in Situ Process Control for Absorbing Metal Films Depositing on Known Transparent Substrates, <b>Frank Urban, David Barton</b> , Florida International University, USA	<b>CM2-1-ThM-11</b> Cross-Sectional Nanoindentation Mapping of Sputtered Inconel 725 Films, <b>Ikponmwosa Iyinbor (Student)</b> , Mork Family Department of Chemical Engineering and Materials Science, University of Southern California., USA; <b>Jin Wang</b> , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Jülich GmbH., Germany; <b>Ruth Schwaiger</b> , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Juelich GmbH., Germany; <b>Andrea Hodge</b> , Mork Family Department of Chemical Engineering and Materials Science, University of Southern California., USA	

# Thursday Morning, May 15, 2025

<b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b> <b>Room Town &amp; Country D - Session CM3-1-ThM</b> <b>Accelerated Thin Film Development: High-throughput Synthesis, Automated Characterization and Data Analysis I</b> <b>Moderators: Davi Marcelo Febba, NREL, USA, Sebastian Siol, Empa, Switzerland</b>		<b>Functional Thin Films and Surfaces</b> <b>Room Palm 3-4 - Session MB3-ThM</b> <b>Low-dimensional Materials and Structures</b> <b>Moderators: Tomas Kubart, Angstrom, Switzerland, Vladimir Popok, FOM Technologies, Denmark</b>	
8:00am	<b>CM3-1-ThM-1</b> Combinatorial Screening of Quaternary Piezoelectric Nitrides, Enabled by HiPIMS, <b>Nathan Rodkey, Jyotish Patidar, Federica Messi, Sebastian Siol</b> , EMPA (Swiss Federal Laboratories for Materials Science and Technology), Switzerland		
8:20am	<b>INVITED: CM3-1-ThM-2</b> High-Throughput Experiments Informed by High-Throughput Theory Reveal Zintl Phosphides as a New Family of High-Performance Semiconductors, <b>Sage Bauers</b> , 15013 Denver West parkway, USA		
8:40am		<b>INVITED: MB3-ThM-3</b> Conformal Multifunctional Polymeric and Inorganic Aerogel-Like Oxide Thin Films for Optical and Energy Applications by Plasma Technology, <b>Gloria P. Moreno, Triana Czermak, Jose Obrero, Francisco J. Aparicio, Juan Ramón Sánchez-Valencia, Ana Borrás, Angel Barranco</b> , Institute of Materials Science, CSIC, Spain	
9:00am	<b>CM3-1-ThM-4</b> High-Throughput Nanoindentation Methodology for Combinatorial Thin Film Material Libraries, <b>Andre Bohn (Student)</b> , University Of Southern California, USA; <b>Adie Alwen, Andrea Maria Hodge</b> , University of Southern California, USA		
9:20am	<b>CM3-1-ThM-5</b> Empowering Manufacturers with Low-Temperature Plasma: A Novel Approach to Real-Time Thin Film Metrology, <b>Peter Rudd</b> , 8000 Edgewater Dr, USA	<b>INVITED: MB3-ThM-5</b> Cluster-assembled Computers, <b>Paolo Milani</b> , University of Milan, Italy	
9:40am	<b>CM3-1-ThM-6</b> Streamlining Inorganic Thin-Film Data Management with the High-Throughput Experimental Materials Database (HTEM), <b>Davi Febba, Nicholas Wunder, Hilary Egan, Max Gallant, Andriy Zakutayev</b> , National Renewable Energy Laboratory, USA		
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am	<b>CM3-1-ThM-8</b> A Python-Based Approach to Sputter Deposition Simulations in Combinatorial Materials Science, <b>Felix Thelen (Student), Rico Zehl, Jan Lukas Bürgel</b> , Ruhr University Bochum, Germany; <b>Diederik Depla</b> , Ghent University, Belgium; <b>Alfred Ludwig</b> , Ruhr University Bochum, Germany	<b>MB3-ThM-8</b> Analysis and 3D Modelling of Percolated Conductive Networks in Nanoparticle-Based Thin Films, <b>Stanislav Haviar</b> , University of West Bohemia, Czechia; <b>Benedikt Prifling</b> , Ulm University, Germany; <b>Tomáš Kozák, Kalyani Shaji</b> , University of West Bohemia, Czechia; <b>Tereza Košutová</b> , Charles University, Czechia; <b>Šimon Kos</b> , University of West Bohemia, Czechia; <b>Volker Schmidt</b> , Ulm University, Germany; <b>Jiří Čapek</b> , University of West Bohemia, Czechia	
10:40am	<b>INVITED: CM3-1-ThM-9</b> Discovery and Development of Transition Metal Nitride Semiconductors for Photoelectrochemical Energy Conversion, <b>Ian Sharp</b> , Walter Schottky Institut, Technische Universität München, Germany	<b>MB3-ThM-9</b> Tailoring of Nanoparticle Deposition Rate and Film Structure Through Substrate Biasing: Enabling Sputtering-Based Synthesis of Novel Catalyst Materials, <b>Dominik Gutnik (Student), Florian Theodor Knabl</b> , Montanuniversität Leoben, Austria; <b>Prathamesh Patil</b> , CEST GmbH, Austria; <b>Christine Bandl</b> , Montanuniversität Leoben, Austria; <b>Tijmen Vermeij, Daniele Casari</b> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <b>Michael Burtscher, Christian Mitterer</b> , Montanuniversität Leoben, Austria; <b>Christian M Pichler</b> , CEST GmbH, Austria; <b>Barbara Putz</b> , Montanuniversität Leoben, Austria	
11:00am		<b>MB3-ThM-10</b> Tailoring Microstructure and Composition of Composite CuO/WO <sub>3</sub> Nanoparticle-Based Thin Films for Enhanced H <sub>2</sub> Gas Sensing, <b>Kalyani Shaji (Student), Stanislav Haviar, Petr Zeman, Michal Procházka, Radomír Čerstvý, Jiří Čapek</b> , University of West Bohemia - NTIS, Czechia	
11:20am		<b>MB3-ThM-11</b> Influence of Pretreatment and Deposition Parameters on Carbon Nanotubes Synthesized Directly on Oxidized Steel Substrates via Pulsed DC PACVD, <b>Manuel C. J. Schachinger, Francisco A. Delfin</b> , University of Applied Sciences Upper Austria; <b>Bernhard Fickl, Bernhard C. Bayer</b> , Vienna University of Technology, Austria; <b>Andreas Karner, Johannes Preiner, Christian Forsich, Daniel Heim</b> , University of Applied Sciences Upper Austria; <b>Bernd Rübiger, Christian Dipolt, Thomas Müller</b> , RÜBIG GmbH & Co KG, Austria	

# Thursday Morning, May 15, 2025

<b>Plasma and Vapor Deposition Processes</b> <b>Room Town &amp; Country B - Session PP8-1-ThM</b> <b>Commemorative Session for Papken Hovsepian I</b> <b>Moderators: Arutiun P. Ehasarian, Sheffield Hallam Univ., UK,</b> <b>Philipp Immich, IHI Hauzer Techno Coating B.V., Netherlands</b>		<b>Protective and High-temperature Coatings</b> <b>Room Palm 5-6 - Session MA5-ThM</b> <b>Boron-containing Coatings</b> <b>Moderators: Anna Hirle, TU Wien, Austria,</b> <b>Martin Dahlqvist, Linköping University, Sweden</b>	
8:00am	<b>INVITED: PP8-1-ThM-1</b> How Industry and Research Are Connected to Accelerate Development, <i>Philipp Immich</i> , IHI Hauzer Techno Coating B.V., Netherlands	<b>INVITED: MA5-ThM-1</b> Metal Boride Nanocrystal Inks for Applications in Extreme Environments, <i>Loredana Protesescu</i> , RUG, Netherlands	
8:20am			
8:40am	<b>INVITED: PP8-1-ThM-3</b> Invited Paper, <i>Ivan Petrov</i> , University of Illinois at Urbana-Champaign, USA	<b>MA5-ThM-3</b> Influence of Boriding Treatment on the Tribological Performance of Tool Teel Repaired by Wire and Arc Additive Manufacturing, <i>Cesar Resendiz</i> , Tecnologico de Monterrey, Mexico	
9:00am		<b>MA5-ThM-4</b> Impact of Thermo-Chemical Treatments on the Wear Performance of DIN 16MnCr <sub>5</sub> Steel, <i>Jose Martinez-Trinidad</i> , Instituto politecnico Nacional, Mexico; <i>Roberto Javier Cruz (Student)</i> , Instituto Politecnico Nacional, Mexico; <i>Ricardo Garcia-León</i> , Universidad Francisco de Paula Santander Ocaña, Colombia	
9:20am	<b>INVITED: PP8-1-ThM-5</b> Invited Paper, <i>Francisco Javier Perez Trujillo</i> , Universidad Complutense de Madrid, Spain	<b>MA5-ThM-5</b> Tuning Properties of Diborides by Transition Metal Alloying Deposited by Combination of Magnetron Sputtering and Cathodic ARC Evaporation, <i>Daniel Karpinski</i> , <i>Andreas Lümekemann</i> , <i>Pavla Karvankova</i> , <i>Christian Krieg</i> , PLATIT AG, Switzerland; <i>Hannes Joost</i> , <i>Heiko Frank</i> , GFE-Schmalkalden e.V., Germany; <i>Pavel Soucek</i> , <i>Petr Vasina</i> , Institute of Physics and Plasma Technology, Masaryk University, Czechia; <i>Fedor Klimashin</i> , <i>Johann Michler</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; <i>Jan Kluson</i> , PLATIT a.s., Czechia; <i>Hamid Bolvardi</i> , PLATIT AG, Switzerland	
9:40am		<b>MA5-ThM-6</b> Micromechanical Properties of Ti <sub>1-x</sub> Mo <sub>x</sub> B <sub>2+z</sub> Coatings Deposited by DCMS and HiPIMS, <i>Anna Hirle (Student)</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; <i>Philipp Dörflinger</i> , <i>Rainer Hahn</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; <i>Christian Gutschka</i> , <i>Tomasz Wojcik</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien,, Austria; <i>Maximilian Podsednik</i> , Institute of Chemical Technologies and Analytics, TU Wien, Austria; <i>Szilard Kolozsvári</i> , <i>Peter Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>Carmen Jerg</i> , Oerlikon Surface Solutions AG, Liechtenstein; <i>Helmut Riedl</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, Austria	
10:00am	<b>BREAK</b>	<b>BREAK</b>	
10:20am	<b>INVITED: PP8-1-ThM-8</b> Recent Progress in Coating Materials Design: Thermal Stability vs Chemical Stability, <i>Amir Navidi</i> , <i>Deborah Neuss</i> , <i>Soheil Karimi</i> , <i>Marcus Hans</i> , Materials Chemistry, RWTH Aachen University, Germany; <i>Daniel Primetzhofer</i> , Materials Physics, Dep. of Physics and Astronomy, Uppsala University, Sweden; <i>Jochen M. Schneider</i> , Materials Chemistry, RWTH Aachen University, Germany	<b>MA5-ThM-8</b> Effect of Duty Cycle on the Microstructure and Mechanical Properties of Titanium Diboride Thin Films Deposited by High-Power Pulsed Magnetron Sputtering, <i>Jian-Fu Tang</i> , National Kaohsiung University of Science and Technology, Taiwan Jian-Fu Tang, Taiwan; <i>Ming-Yi Lin (Student)</i> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan, ROC; <i>Fu-Sen Yang</i> , Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taiwan, ROC; <i>Chi-Lung Chang</i> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan, ROC	
10:40am		<b>MA5-ThM-9</b> TiB <sub>2</sub> /Hf Superlattices: Exploring Mechanical Strength, Fracture Toughness, and Stress-Strain Behavior, <i>Naureen Ghafoor</i> , <i>Firat Angay</i> , <i>Marcus Lorentzon</i> , Linköping University, IFM, Sweden; <i>Rainer Hahn</i> , TU Wien, Austria, Sweden; <i>Michael Meindlhuber</i> , University of Leoben, Austria; <i>Lars Hultman</i> , <i>Jens Birch</i> , Linköping University, IFM, Sweden	
11:00am	<b>INVITED: PP8-1-ThM-10</b> HiPIMS and Magnetron Sputtered Carbon-Based Nanocomposites, <i>Sven Ulrich</i> , Forschungszentrum Karlsruhe, Germany	<b>MA5-ThM-10</b> Production of Thin Films of Cubic Boron Nitride with Almost No Residual Stresses by Pulsed Laser Deposition and Laser Stress Relaxation, <i>Falko Jahn</i> , Mittweida University of Applied Sciences, Germany; <i>Thomas Lampke</i> , University of Technology Chemnitz, Germany; <i>Steffen Weissmantel</i> , Mittweida University of Applied Sciences, Germany	
11:20am		<b>MA5-ThM-11</b> Influence of Deposition Parameters on the Microstructure, Mechanical and Anti-Corrosion Characteristics of (Hfvtizrw)B <sub>2</sub> High Entropy Alloy Boride Thin Films, <i>Jun-Xing Wang (Student)</i> , Ming Chi University of Technology, Taiwan; <i>Bih-Show Lou</i> , Chang Gung University, Taoyuan, Taiwan; <i>Riedl-Tragenreif Helmut</i> , Technische Universität Wien, Austria; <i>Jyh-Wei Lee</i> , Ming Chi University of Technology, Taiwan	
11:40am	<b>INVITED: PP8-1-ThM-12</b> Superlattice Coatings: Unleashing Superior Properties Through Architected Nanolayers, <i>Paul Mayrhofer</i> , TU Wien, Institute of Materials Science and Technology, Austria		
12:00pm			

# Thursday Afternoon, May 15, 2025

	<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Palm 1-2 - Session CM1-2-ThA</b>  <b>Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces II</b>  <b>Moderators: Damien Faurie, Université Sorbonne Paris Nord, France, Barbara Putz, Empa Thun, Switzerland, Aparna Saksena, MPI für Eisenforschung GMBH, Germany</b></p>	<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Town &amp; Country C - Session CM2-2-ThA</b>  <b>Advanced Mechanical Testing of Surfaces, Thin Films, Coatings and Small Volumes II</b>  <b>Moderators: Thomas Edwards, NIMS, Japan, Matteo Ghidelli, CNRS, France</b></p>
1:20pm	<p><b>INVITED: CM1-2-ThA-1</b> Crystalline-Amorphous Interface Fracture Explored Across Different Length Scales, <i>Alice Lassnig</i>, Montanuniversität Leoben, Austria; <i>Michael Meindlhumer</i>, Montanuniversität Leoben, Austria; <i>Stanislav Zak</i>, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <i>Megan Cordill</i>, <i>Christoph Gammer</i>, Austrian Academy of Sciences, Austria; <i>Andrew Minor</i>, Lawrence Berkeley Lab, USA</p>	<p><b>CM2-2-ThA-1</b> Influence of Applied Deformation on Magnetic Properties of Ferromagnetic Ni<sub>60</sub>Fe<sub>40</sub> Thin Films Deposited on Polymeric Substrate, <i>Alejandro Toledano Povedano (Student)</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>Dominique Thiaudière</i>, Synchrotron SOLEIL, France; <i>Pierre Godard</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>Eli Hantz</i>, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <i>Damien Faurie</i>, <i>Fatih Zighem</i>, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <i>Anny Michel</i>, <i>Pierre-Olivier Renault</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France</p>
1:40pm		<p><b>INVITED: CM2-2-ThA-2</b> The Local Electrical Fingerprint of Deformation and Growth -Induced Defects in Alloys, <i>Hanna Bishara</i>, Tel Aviv University, Israel</p>
2:00pm	<p><b>CM1-2-ThA-3</b> Tailoring Structure and Mechanical Properties of TiZrHfTa Refractory Alloy Thin Films, <i>Gregory Abadias</i>, <i>Hocine Slimani</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>Pietro Vecchiotti</i>, Politecnico Milano, Italy; <i>Mariaadeg Chalopin</i>, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>Ferenc Tasnádi</i>, Linköping University, IFM, Sweden; <i>Matteo Ghidelli</i>, <i>Philippe Djemia</i>, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France</p>	
2:20pm	<p><b>INVITED: CM1-2-ThA-4</b> Exploring Mechanical Properties of Thin Films Through Synchrotron X-Ray Diffraction, Digital Image Correlation and Electrical Resistivity Measurements, <i>Pierre-Olivier Renault</i>, University of Poitiers, France</p>	<p><b>CM2-2-ThA-4</b> On the Effect of Thin Film Residual Stress on the Crack Propagation Resistance of ALD Coated Nano-Ceramics, <i>Edoardo Rossi</i>, Università degli studi Roma tre, Dipartimento di ingegneria Civile, Informatica e delle Tecnologie Aeronautiche., Italy; <i>Marco Sebastiani</i>, Università degli studi Roma Tre, Dipartimento di Ingegneria Civile, Informatica e delle Tecnologie Aeronautiche, Italy</p>
2:40pm		<p><b>INVITED: CM2-2-ThA-5</b> Micromechanical Testing of Ceramic Coatings for Nuclear Applications up to 1000°C, <i>Dong (Lilly) Liu</i>, University of Oxford, UK</p>
3:00pm	<p><b>CM1-2-ThA-6</b> A Combined X-ray Microdiffraction and Micromechanical Testing Approach for Direct Measurement of Thin Film Elastic Constants, <i>Rainer Hahn</i>, CDL-SEC, TU Wien, Austria; <i>Rebecca Janknecht</i>, Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <i>Nikola Koutná</i>, Institute of Materials Science and Technology, TU Wien, Austria; <i>Anna Hirle</i>, CDL-SEC, TU Wien, Austria; <i>Anton Davydok</i>, Helmholtz-Zentrum Hereon, Germany; <i>Klaus Boebel</i>, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>Szilárd Kolozsvári</i>, <i>Peter Polcik</i>, Plansee Composite Materials GmbH, Germany; <i>Christina Krywka</i>, Helmholtz-Zentrum Hereon, Germany; <i>Paul H. Mayrhofer</i>, Institute of Materials Science and Technology, TU Wien, Austria; <i>Helmut Riedl</i>, CDL-SEC, TU Wien, Austria</p>	
3:20pm	<p><b>CM1-2-ThA-7</b> Real-Time Particle Detection for Enhanced Coating Deposition Processes, <i>Constant Boris Rieille</i>, <i>Sylvain LeCoultre</i>, Berner Fachhochschule BFH, Switzerland</p>	
3:40pm	<b>BREAK</b>	<b>BREAK</b>
4:00pm	<p><b>INVITED: CM1-2-ThA-9</b> Real-Time Monitoring of Sputter Deposition Process: Application in the Context of Ag-Based Low-Emissive Coatings, <i>Rémi Lazzari</i>, CNRS/Sorbonne Université, France</p>	
4:20pm		
4:40pm	<p><b>CM1-2-ThA-11</b> A Combination of Real-Time Diagnostics Probing the Impact of N<sub>2</sub> on Ag Thin Film Growth, <i>Michal Kaminski</i>, KIT, Germany; <i>Gregory Abadias</i>, <i>David Babonneau</i>, Institut Pprime, France; <i>Alessandro Coati</i>, <i>Yves Garreau</i>, Synchrotron SOLEIL, France; <i>Anny Michel</i>, Institut Pprime, France; <i>Anton Plech</i>, KIT, Germany; <i>Andrea Resta</i>, Synchrotron SOLEIL, France; <i>Karan Solanki</i>, Institut Pprime, France; <i>Alina Vlad</i>, Synchrotron SOLEIL, France; <i>Baerbel Krause</i>, KIT, Germany</p>	

# Thursday Afternoon, May 15, 2025

<p><b>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films</b>  <b>Room Town &amp; Country D - Session CM3-2-ThA</b>  <b>Accelerated Thin Film Development: High-throughput Synthesis, Automated Characterization and Data Analysis II</b>  <b>Moderators: Davi Marcelo Febba, NREL, USA, Sebastian Siol, Empa, Switzerland</b></p>		<p><b>Plasma and Vapor Deposition Processes</b>  <b>Room Town &amp; Country B - Session PP8-2-ThA</b>  <b>Commemorative Session for Papken Hovsepian II</b>  <b>Moderators: Arutiun P. Ehasarian, Sheffield Hallam University, UK, Philipp Immich, IHI Hauzer Techno Coating B.V., Netherlands</b></p>	
1:20pm	<p><b>INVITED: CM3-2-ThA-1</b> Feature Selection and High-Throughput Synthesis: Can They Be Used to Predict Adsorption Energies on Multinary Materials?, <b>Hannah-Noa Barad</b>, Bar-Ilan University, Israel</p>	<p><b>INVITED: PP8-2-ThA-1</b> PVD Based Solutions for Mankind Through Applied Research, <b>Ton Hurkmans</b>, IHI Ionbond Group, Germany</p>	
1:40pm			
2:00pm	<p><b>CM3-2-ThA-3</b> Development of Cu, Ni-Co-Doped <math>\text{Bi}_2\text{Te}_{2.7}\text{Se}_{0.3}</math> for Thermoelectric Energy Generation Using Pulsed Laser Deposition, <b>Yakubu Sani Wudil</b>, King Fahd University of Petroleum and Minerals, Saudi Arabia</p>	<p><b>INVITED: PP8-2-ThA-3</b> Managing Relative Abundance of Ions and Neutrals: A New Plasma Performance Metric in Modern Surface Engineering, <b>Ganesh Kamath</b>, ASML, USA</p>	
2:20pm	<p><b>INVITED: CM3-2-ThA-4</b> Autonomous Experiments for Thin Films and Solid Materials, <b>Taro Hitosugi</b>, The University of Tokyo, Japan</p>		
2:40pm		<p><b>INVITED: PP8-2-ThA-5</b> Invited Paper, <b>Pawel Ozimek</b>, Trumpf, USA</p>	
3:00pm			
3:20pm		<p><b>INVITED: PP8-2-ThA-7</b> Carbon Based Surface Solutions – from a Glorious Legacy to Recent Advances, <b>Vishal Khetan</b>, Oerlikon Surface Solution AG, Switzerland</p>	
3:40pm	<b>BREAK</b>		
4:00pm		<p><b>INVITED: PP8-2-ThA-9</b> Invited Paper, <b>Arutiun P. Ehasarian</b>, Sheffield Hallam University, UK</p>	
4:20pm			

# Thursday Afternoon, May 15, 2025

<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: Pierluigi Bilotto, TU Wien, Austria,</b> <b>Michael Chandross, Sandia National Laboratories, USA</b>		
1:20pm	<b>INVITED: MC1-1-ThA-1</b> Solid Lubrication in Thin Films: Mechanisms, Materials, and Performance, <i>Daniel Pölzlberger</i> , Institute of Materials Science and Technology, TU Wien, Austria; <i>Rainer Hahn, Tomasz Wojcik, Philip Kutrowatz</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; <i>Klaus Böbel, Julien Keraudy</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>Szilard Kolozsvári, Peter Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>Philipp G. Grützmacher, Carsten Gachot</i> , Institute of Design Engineering and Product Development, Research Unit Tribology, TU Wien, Austria; <i>Helmut Riedl</i> , TU Wien, Institute of Materials Science and Technology, Austria	
1:40pm		
2:00pm	<b>MC1-1-ThA-3</b> Study of Transparent Coatings for the Preservation of Colored Titanium Surfaces, <i>Sarah Marion, Renée Charrière</i> , Mines Saint-Etienne, France; <i>Clotilde Minfray</i> , Ecole Centrale de Lyon - LTDS, France; <i>Laurent Dubost</i> , HEF - IREIS, France; <i>Jenny Faucheu</i> , Mines Saint-Etienne, France; <b>Vincent Fridrici</b> , Ecole Centrale de Lyon - LTDS, France	
2:20pm	<b>MC1-1-ThA-4</b> Beyond Graphene: A ML-Assisted High-Throughput Molecular Dynamics Framework for Screening 2D Materials for Tribological Applications, <b>Matteo Valderrama (Student)</b> , <i>Daniele Dini, James Ewen</i> , Imperial College London, UK; <i>Nicolas Fillot</i> , INSA de Lyon, France	
2:40pm	<b>MC1-1-ThA-5</b> Modelling Complexities of Tribocorrosion Processes: Evaluation and Validation, <b>Avirup Sinha (Student)</b> , University of Illinois at Chicago, USA; <i>Feyzi Hashemi</i> , Flinders University, Australia; <i>Maansi Thapa, Bill Keaty, Yani Sun</i> , University of Illinois at Chicago, USA; <i>Reza Hashemi</i> , Flinders University, Australia; <i>Mathew T. Mathew</i> , University of Illinois at Chicago, USA	
3:00pm	<b>MC1-1-ThA-6</b> Electrification of Ti:MoS <sub>2</sub> Coatings for Tribological Applications, <b>Newton K. Fukumasu</b> , Institute for Technological Research of Sao Paulo State, Brazil; <i>Miguel R. Danelon, André P. Tschiptschin, Izabel F. Machado, Roberto M. Souza</i> , University of São Paulo, Brazil	
3:20pm	<b>MC1-1-ThA-7</b> Nanoscale Wear of Metallic Multilayers - the Effect of Interface, <b>Tomas Polcar</b> , <i>Ahmed AlMotasem</i> , Czech Technical University in Prague, Czech Republic	
3:40pm	<b>BREAK</b>	

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

### Room Golden State Ballroom - Session CM-ThP

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

5:00pm

**CM-ThP-1** How to Predict the Deposition Rate During Reactive Sputtering Using an One-Volume Reference Resource?, **Diederik Depla**, Ghent University, Belgium

**CM-ThP-2** Deep Insertion Induced Fracture in Soft Solids, **MUTHUKUMAR MARIAPPAN**, Department of Mechanical Engineering, IISc Bangalore, India

**CM-ThP-3** Temperature-Dependent Oxidation Mechanisms of Binary Nitride Compounds: A Molecular Dynamics Approach, **Sara Fazeli**, MS4ALL, France; **Edern Menou**, **Marjorie Cavarroc**, SAFRAN, France; **Pascal Brault**, MS4ALL / GREMI, France

**CM-ThP-4** Simulating Mode-I Crack Opening Process in Transition Metal Diborides via Machine-Learning Interatomic Potentials, **Shuyao Lin (Student)**, TU Wien, Institute of Materials Science and Technology, Austria; **Zhuo Chen**, **Zaoli Zhang**, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; **Lars Hultman**, Linköping Univ., IFM, Thin Film Physics Div., Sweden; **Paul Mayrhofer**, **Nikola Koutna**, TU Wien, Institute of Materials Science and Technology, Austria; **Davide Sangiovanni**, Linköping Univ., IFM, Thin Film Physics Div., Sweden

**CM-ThP-5** Simulation Study on Color Modulation of Diamond Substrates via Localized Surface Plasmon Resonance Effects Induced by Metal Nanoparticles, **Tsung-Jen Wu (Student)**, **Sheng-Rong Song**, **Wen-Shan Chen**, National Taiwan University, Taiwan; **Wen Lin**, National Taipei University of Technology, Taiwan; **Shao-Chin Tseng**, National Synchrotron Radiation Research Center, Taiwan

**CM-ThP-6** Correlative XPS & SEM Analysis for NMC and Na-Ion Battery Cathode Material Surface Composition, **James Lallo**, Thermo Fisher Scientific, UK, USA; **Nannan Shi**, **Albert Ge**, Thermo Fisher Scientific, UK, China; **Tim Nunnay**, Thermo Fisher Scientific, UK

**CM-ThP-7** Optimizing Combinatorial Materials Discovery with Active Learning: A Case Study in the Quaternary System Ni-Pd-Pt-Ru for the Oxygen Evolution Reaction, **Felix Thelen (Student)**, **Rico Zehl**, **Ridha Zerroumi**, **Jan Lukas Bürgel**, **Wolfgang Schuhmann**, **Alfred Ludwig**, Ruhr University Bochum, Germany

**CM-ThP-8** High-Throughput Aging Studies of Vapor-Deposited Perovskite Thin-Films Using Precise Automated Characterization and Machine Learning-Assisted Analysis, **Alexander Wiczorek**, **Sebastian Sial**, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

**CM-ThP-9** Advanced Depth Profiling of Thin Films Using Angle-Resolved XPS/HAXPES, **Jennifer Mann**, **Norb Biderman**, **Kateryna Artyushkova**, Physical Electronics, USA

**CM-ThP-10** Numerical Ellipsometry: Artificial Intelligence Based Real-Time, in Situ Process Control for Virtual Substrates Including Multiple Unknown Layers, **Frank Urban**, 7980 SW 144th St, USA; **David Barton**, Florida International University, USA

**CM-ThP-11** A Computational DFT Investigation of  $\gamma$ -CuI as an HTM for Perovskite Solar Cells, **Salma Naimi (Student)**, Green Energy Park (IRESEN/UM6P), Benguerir, Morocco/ Mohammed V university, Rabat, Morocco

**CM-ThP-12** Role of Gold-Doped ZnO Nanoparticles to Degrade Dr-31 Dye as a Photocatalyst, **Manik Rakhra**, Lovely Professional University, Jalandhar, India

**CM-ThP-13** The Application of Environmentally Friendly and Sustainable Corrosion Inhibitor for Carbon Steel in Petroleum Fields, **Omotayo Sanni**, University of Pretoria, South Africa; **Ren Jianwei**, university of pretoria, South Africa

## Functional Thin Films and Surfaces

### Room Golden State Ballroom - Session MB-ThP

## Functional Thin Films and Surfaces Poster Session

5:00pm

**MB-ThP-1** Two-Dimensional Vacancy Confinement in Anatase TiO<sub>2</sub> Thin Films for Enhanced Photocatalytic Activities, **Junwoo Son**, Seoul National University, Republic of Korea

**MB-ThP-2** Fabrication of Metal-Based Superhydrophilic and Underwater Superoleophobic Surfaces by Laser Ablation and Magnetron Sputtering, **Adham Al-Akhali (Student)**, Guizhou University, China

**MB-ThP-3** Synthesis and Characterization of Zn Doped CsPbI<sub>3</sub> Perovskite Quantum Dots, **Ya-Fen Wu**, **Hao-Yu Jhai**, Ming Chi University of Technology, Taiwan

**MB-ThP-4** Improved Photovoltaic Performance of Si-Based Hybrid Solar Cells via Mo<sub>2</sub>C Bridging in 2D MoS<sub>2</sub> nanosheets @ OD Carbon Colloid Dots, **Ta-Cheng Wei**, **Chia-Yun Chen**, National Cheng Kung University (NCKU), Taiwan; **Chih-Chiang Yang**, National Yunlin University of Science and Technology, Taiwan

**MB-ThP-5** Top-Emitting QLEDs with a Thin Stabilizing Layer to Prevent Agglomeration, **Jaehyung Park (Student)**, **Kangsuk Yun**, **Jaehwi Choi**, **Jiwan Kim**, Kyonggi University, Republic of Korea

**MB-ThP-6** A Study of Chlorine Incorporation in Amorphous In-Ga-Zn-O Thin Film Transistors by Soaking in NaCl Solution, **GIYOONG CHUNG (Student)**, **Dae Woong Kim**, **Yong-Sang Kim**, Sungkyunkwan University (SKKU), Republic of Korea

**MB-ThP-7** Electrochemical Insights into All-Solid-State Symmetric Supercapacitors Based on Sputter-Grown WSe<sub>2</sub>, **Akshay Tomar**, **Somdatta Singh**, **Ananya Bansal**, **Prachi Gurawal**, **Ramesh Chandra**, IIT Roorkee, India

**MB-ThP-8** Highly efficient of QLEDs Using SnO<sub>2</sub> Electron Transport Layers Deposited by RF Sputtering, **Jaehwi Choi (Student)**, **Jaehyung Park**, **Kangsuk Yun**, **Jiwan Kim**, Kyonggi University, Republic of Korea

**MB-ThP-9** Optimizing Y<sub>2</sub>O<sub>3</sub> Coating for Improving Plasma Resistance in Dry Etching Process, **Sunil KIM**, **Sunghwan CHO**, **Ja Myung Gu**, **Seungpil Chung**, **Gil Heyun Choi**, SEMES Co., Ltd., Republic of Korea

**MB-ThP-10** Electrical and Morphological Properties of Alloyed Al<sub>2</sub>O<sub>3</sub> Thin Films at High Temperatures, **Norma Salvadores Farran (Student)**, **Florentine Scholz**, **Tomasz Wojcik**, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; **Carmen Jerg**, **Astrid Gies**, **Jürgen Ramm**, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; **Szilard Kolozsvári**, **Peter Polcik**, Plansee Composite Materials GmbH, Germany; **Jürgen Fleig**, **Tobias Huber**, Institute of Chemical Technologies and Analytics, TU Wien, Austria; **Balint Hajas**, Institute of Materials Science and Technology, TU Wien, Austria; **Helmut Riedl**, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria

**MB-ThP-11** Analysis of Four-Point Bending Test for Nb, Ta, and V-Doped Cr<sub>3</sub>N Thin Films Deposited by Closed-Field Unbalanced Magnetron Sputtering, **Banu YAYLALI**, **Gokhan Gulden**, **Mustafa YESILYURT**, **Yasar TOTIK**, Atatürk University, Turkey; **Justyna Kulczyk Malecka**, **Peter Kelly**, Manchester Metropolitan University, U.K.; **Ihsan EFEOGLU**, Atatürk University, Turkey

**MB-ThP-12** Halide-Treated ZnMgO Nanoparticles for Improving Stability of InP Based Quantum-Dot Light-Emitting Diodes, **Kangsuk Yun (Student)**, **Jaehyung Park**, **Jaehwi Choi**, **Jiwan Kim**, Kyonggi University, Republic of Korea

**MB-ThP-13** Inkjet Printing of Silver Film on Polydimethylsiloxane for Soft Electronics, **Hsuan-Ling Kao**, Chang Gung University, Taiwan; **Li-Chun Chang**, Mingchi University of Technology, Taiwan; **Min-Hsuan Lu**, Chang Gung University, Taiwan

**MB-ThP-14** Magnetoelectric Sensors for Flexible MEMS Applications, **Davinder Kaur**, Indian Institute of Technology Roorkee, India

**MB-ThP-15** Flexible UV-Vis photodetectors based on NiOx thin film obtained by magnetron r.f. sputtering, **Eddue Osuna-Escalante (Student)**, **David Mateos-Anzaldo**, **Oscar Pérez-Landeros**, **Roumen Nedev**, **Ivan Cardoza-Navarro**, **Esteban Osorio-Urquiza**, **Mario Curiel-Álvarez**, **Nicola Nedev**, Universidad Autónoma de Baja California, Mexico

**MB-ThP-16** Large Area Synthesis of Hexagonal Boron Nitride Layers on SiO<sub>2</sub>/Si Substrates, **Diego Lundquist Lundquist (Student)**, **Abinash Bhuyan**, **Mary Becker**, **Jennifer Brumley**, **Sanjay Behura**, San Diego State University, USA

**MB-ThP-17** Influence of partial pressure of argon/oxygen and temperature on photosensors based on n-Si/NiO<sub>x</sub>, **Esteban Osorio (Student)**, Autonomous University of Baja California, Mexico; **David Mateos-Anzaldo**, **Mario Curiel-Álvarez**, **Eddue Osuna Escalante**, **Oscar Perez-Landeros**, **Ivan Cardoza-Navarro**, **Roumen Nedev**, **Benjamin Valdez-Salas**, **Nicola Nedev**, Autonomous University of Baja California, Mexico

**MB-ThP-18** Topological Insulator, Reduced Graphene Oxide/Silicon Nanowire Arrays for Ultra-Broadband Photodetectors, **Hsu Hsun-Feng**, **Huang Tzu-Yun**, National Chung Hsing University, Taiwan

**MB-ThP-19** Microstructural Evolution of Co-Sputtered Nanocrystalline Cu-Ag Alloy Thin Films During Annealing Process, **Yu-Lin Liao (Student)**, College of Semiconductor Research, National Tsing Hua University, Taiwan; **Tsai-Shuan Kuo**, **Fan-Yi Ouyang**, Department of Engineering and System Science, National Tsing Hua University, Taiwan

**MB-ThP-20** Multifunctionality in Frequency Tuning of PMN-PT/Ni-Mn-In Integrated Film Bulk Acoustic Wave Resonator for Flexible MEMS Applications, *Diksha Arora (Student)*, *Davinder Kaur*, Indian Institute of Technology Roorkee, India

## Plasma and Vapor Deposition Processes

### Room Golden State Ballroom - Session PP-ThP

#### Plasma and Vapor Deposition Processes Poster Session

5:00pm

**PP-ThP-1** Optimizing Thin Film Deposition with Ion Energy and Flux Measurements in Pulsed Plasmas with Plasma Diagnostics, *Angus McCarter*, *Thomas Gilmore*, *Anshu Verma*, Chase House, City Junction Business Park, Ireland

**PP-ThP-2** Influence of the Substrate on the Growth of Aluminium Oxide Films by Atomic Layer Deposition for Food Packaging Applications, *Hugo Patureau*, SIMaP, CNRS, University Grenoble Alpes, France; *Thierry Encinas*, CMTC, Grenoble INP, University Grenoble Alpes, France; *Alexandre Crisci*, *Frederic Mercier*, SIMaP, CNRS, University Grenoble Alpes, France; *Erwan Gicquel*, ILKOA, France; *Arnaud Mantoux*, *Elisabeth Blanquet*, SIMaP, CNRS, University Grenoble Alpes, France

**PP-ThP-3** Minimizing Secondary Electron Yield in Amorphous Carbon Thin Films: A Study on Power Density, Discharge Modes, and Hydrogen Incorporation, *Valentine Petit*, *Yorick Delaup*, *Alessia Pascali*, *Pedro Costa Pinto*, *Marcel Himmerlich*, *Christos Kouzios*, European Organization for Nuclear Research, Switzerland

**PP-ThP-4** Accurate Reporting of Time-of-Flight Measurements with Gated Mass Spectrometry, *Nathan Rodkey*, *Jyotish Patidar*, *Sebastian Siol*, EMPA (Swiss Federal Laboratories for Materials Science and Technology), Switzerland

**PP-ThP-5** Focused Magnetron Sputtering: A Comprehensive Study of Magnetron Power Effects on AlCrN Coatings Under Industrial Conditions, *Martin Ucik (Student)*, Masaryk University, Czechia

**PP-ThP-6** Design and Evaluation of a Laboratory-Scale Thermal ALD Reactor: Case Study with Aluminum Oxide and Zinc Oxide., *Jackeline Navarro-Rodriguez*, *David Mateos-Anzaldo*, *Jesus Martinez-Castelo*, *Rogelio Ramos-Irigoyen*, *Oscar Perez-Landeros*, *Mario Curiel-Alvarez*, *Benjamin Valdez-Salas*, UNIVERSIDAD AUTONOMA DE BAJA CALIFORNIA, Mexico; *Eduardo Martinez-Guerra*, CIMAV-Monterrey, Mexico; *Hugo Tiznado-Vázquez*, UNAM, Mexico; *Nicola Nedev*, UNIVERSIDAD AUTONOMA DE BAJA CALIFORNIA, Mexico

**PP-ThP-7** Energy Flux Diagnostics in High Power Impulse Magnetron Sputtering, *Caroline Adam*, Kiel University, Germany; *Holger Kersten*, Kiel University, Kiel Nano, Germany

## Protective and High-temperature Coatings

### Room Golden State Ballroom - Session MA-ThP

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

5:00pm

**MA-ThP-1** High Temperature Fracture Characteristics of Si Containing Ternary and Quaternary Transition Metal Diborides, *Anna Hirle (Student)*, *Ahmed Bahr*, *Rainer Hahn*, *Tomasz Wojcik*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; *Szilard Kolozsvári*, *Peter Polcik*, Plansee Composite Materials GmbH, Germany; *Jürgen Ramm*, *Carmen Jerg*, Oerlikon Surface Solutions AG, Liechtenstein; *Helmut Riedl*, Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria

**MA-ThP-2** Influence of Si on the Oxidation Behavior of High Entropy Carbide Thin Films Based on (Hf, Ta, Ti, V, Zr)C, *Muhammad Awais Altaf (Student)*, *Alexander Kirnbauer*, *Balint Hajas*, TU Wien, Institute of Materials Science and Technology, Austria; *Szilard Kolozsvari*, Plansee Composite Materials GmbH, Germany; *Paul Mayrhofer*, TU Wien, Institute of Materials Science and Technology, Austria

**MA-ThP-3** Spinodal Decomposition and Nano-precipitate Formation in Ag-modified High-Entropy Alloys, *Salah-eddine benrazzouq (Student)*, *Abdelkrim Redjaimia*, *Jaafar Ghanbaja*, *Sylvie Migot*, *Valentin A. Milichko*, *Jean-François Pierson*, Institut Jean Lamour - Université de Lorraine, France

**MA-ThP-4** Influence of Si Content on Cracking Behavior of CrAlSiN Coatings, *Kirsten Bobzin*, *Christian Kalscheuer*, *Max Philip Möbius*, *Jessica Borowy*, Surface Engineering Institute - RWTH Aachen University, Germany

**MA-ThP-5** Relationship between Optical and Electrical Properties and the Microstructure of High Entropy Nitride (TiVZrNbTa)<sub>Nx</sub> Thin Films, *Miguel Piñeiro*, Institut Jean Lamour - Université de Lorraine, France, Peru; *Salah-Eddine Benrazzouq*, Institut Jean Lamour - Université de Lorraine, France, Morocco; *Alexandre Bouché*, *Valentin Milichko*, *David Pilloud*, *Thomas Easwarakhanthan*, Institut Jean Lamour - Université de Lorraine, France; *Frank Mücklich*, Saarland University, Germany; *Jean-François Pierson*, Institut Jean Lamour - Université de Lorraine, France

## Surface Engineering - Applied Research and Industrial Applications

### Room Golden State Ballroom - Session IA-ThP

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

5:00pm

**IA-ThP-1** Metallurgical Coating by Laser Metal Deposition of H13 Steel Powder for Die Repairs, *Sheila Carvalho*, Federal University of Espirito Santo, Brazil; *Vagner Braga*, Bruning Tecnolometal Co., Brazil; *Rafael Siqueira*, *Kahl Zilnyk*, Technological Institute of Aeronautics, Brazil; *Johan Nuñez*, University of Sao Paulo, Colombia; *Reginaldo Coelho*, University of Sao Paulo, Brazil; *Milton Lima*, Institute for Advanced Studies, Brazil

**IA-ThP-2** Effects of Cathodic Current Density on the Growth Mechanism and Corrosion Resistance of Micro-Arc Oxidation Coatings on AZ31 Magnesium Alloy, *Shih-Yen Huang (Student)*, *Chi-Hua Chiu*, *Yu-Ren Chu*, *Yueh-Lien Lee*, National Taiwan University, Taiwan

## Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials

### Room Golden State Ballroom - Session MD-ThP

#### Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials Poster Session

5:00pm

**MD-ThP-1** Electrochemical and Antimicrobial Coating: Increasing the Ionic Charge on Titanium Surfaces as a Preventive Strategy for Titanium Implants, *João Pedro dos Santos Silva (Student)*, École des mines de Saint-Étienne, France; *Daniela Buenos Ayres de Castro*, *Mariana Mireski*, *Catia Sufia Alves Freire de Andrade*, *Maria Helena Rossy Borges*, Universidade Estadual de Campinas, Brazil; *Jean Geringer*, École des mines de Saint-Étienne, France; *Valentim Adelino Ricardo Barão*, Universidade Estadual de Campinas, Brazil

**MD-ThP-2** Flexible, Enzyme-Free, and Ultra-Sensitive Cholesterol Sensor Based on In-Situ Etched Ti<sub>3</sub>C<sub>2</sub>T<sub>x</sub> MXene Nanosheets, *Sanjeev Kumar*, *Jyoti Jaiswal*, *Rajesh Chakrabaty*, *Kulsuma Begum*, *Bitupan Prasad*, Rajiv Gandhi University, India

**MD-ThP-3** Effect of the Thickness of Fibrous Cap and Compositions on the Rupture Behaviour of the Atherosclerosis Plaques, *Jiling Feng*, *Mohamed Abdulsalam*, Manchester Metropolitan University, U.K.

**MD-ThP-4** Effects of Electrical Stimulation with Iridium Oxide Plasma Protein Hybrid Film on Nerve Cells, *Po-Chun Chen*, National Taipei University of Technology, Taiwan

## Topical Symposium on Sustainable Surface Engineering

### Room Golden State Ballroom - Session TS1-ThP

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

5:00pm

**TS1-ThP-1** Room Temperature DC Sputtered V<sub>2</sub>O<sub>5</sub>-Based Flexible Robust and Supercapacitor Electrode Over Polymeric PVA Substrate for Green Supercapacitor Applications, *Habeebur Rahman (Student)*, *Davinder Kaur*, Indian Institute of Technology Roorkee, India

**TS1-ThP-2** Y-doped Li<sub>7</sub>La<sub>3</sub>Zr<sub>2</sub>O<sub>12</sub>(Y-LLZO) Based all Solid-State Lithium Ion Battery Prepared by Colloidal Coating Processes, *Yen-Yu Chen*, *Guang-Yi Yao*, National Pingtung University of Science and Technology, Taiwan

**TS1-ThP-3** MXene Based Thin Film Nonstructural Composite for Oxygen Evolution Electrocatalysis, *Md Zaved Hossain Khan*, *Romzan Ali*, Jashore University, Independent Road, Jashore, Bangladesh

**TS1-ThP-4** Pseudocapacitive Kinetics in Synergistically Coupled MoS<sub>2</sub>-Mo<sub>2</sub>N Nanowires with Enhanced Interfaces towards All-Solid-State Flexible Supercapacitors, *Bhanu Ranjan*, *Davinder Kaur*, Indian Institute of Technology Roorkee, India

**TS1-ThP-5** PVD-Coated Interconnects for Solid Oxide Electrolyzers, *Giuseppe Sanzone*, Teer Coatings Ltd, UK; *Kun Zhang*, University of Birmingham, UK; *Susan Field*, *Hailin Sun*, Teer Coatings Ltd, UK; *Jangwoo Seo*, *Hyo Ki Hwang*, *In-sung Lee*, E&KOA Co., Republic of Korea; *Parnia Navabpour*, Teer Coatings Ltd, UK

**TS1-ThP-6** Porous BiVO<sub>4</sub> Thin Films Deposited by Radiofrequency Co-Sputtering as Photoanode for H<sub>2</sub> Production by Water Splitting, *Mathias Goutte, Angélique Bousquet, Eric Tomasella*, Institut de Chimie de Clermont-Ferrand, France; *Guillaume Monier*, Institut Pascal, France; *Thierry Sauvage*, CEMHTI, France

**TS1-ThP-7** HiPIMS Deposition of Ti<sub>x</sub>N Coatings for Oxygen Evolution Reaction Catalysts, *Yi-Cho Tsai (Student)*, National United University, Taiwan; *Ying-Hsiang Lin*, National United University, Taiwan; *Siang-Yun Li, Thi Xuyen Nguyen, Chia Ying Su, Ruei Chi Lin, Jyh-Ming Ting*, National Cheng Kung University, Taiwan; *Wan-Yu Wu*, National United University, Taiwan

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## Topical Symposium on Sustainable Surface Engineering

### Room Golden State Ballroom - Session TS2-ThP

#### (Photo)electrocatalysis and Solar/Thermal Conversion

##### Poster Session

5:00pm

**TS2-ThP-1** Heteroepitaxial Growth of ZnTiN<sub>2</sub> for Optimization of Optoelectronic Properties, *Mellie Lemon, John Mangum*, National Renewable Energy Laboratory, USA; *Anna C. Kundmann*, University of California at Davis, USA; *Andriy Zakutayev, Ann L. Greenaway*, National Renewable Energy Laboratory, USA

**TS2-ThP-2** Synthesis and Photocatalytic Efficiency of Bismuth-Copper Selenide Chitosan Microspheres for Micropollutant Degradation under Solar Radiation, *Sayed Suliman Shah (Student)*, The Molecular Innovation and Applications Laboratory (LIMA), University of Strasbourg, France

**TS2-ThP-3** Dual-Metal Doped Perovskite Oxides: High-Performance Fenton-Like Catalysts for Antibiotic Degradation, *Thi Xuyen Nguyen, Yong Yu, Chia-Ying Su, Jyh-Ming Ting*, National Cheng Kung University (NCKU), Taiwan

**TS2-ThP-4** 3D Atmospheric Plasma Beam TiO<sub>2</sub> Lamination of Porous Structures for Manufacturing Electro-Photocatalytic Reactors, *Yuri Glukhoy*, Nanocoating Plasma Systems Inc, USA; *Michael Ryaboy*, nanocoating plasma systems inc, USA

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## Tribology and Mechanics of Coatings and Surfaces

### Room Golden State Ballroom - Session MC-ThP

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

##### Session

5:00pm

**MC-ThP-1** Role of Layer Position During Thermo-Mechanical Loading of Trilayers, *Megan J. Cordill, Claus O.W. Trost*, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria

**MC-ThP-2** The Effect of Surface Built-Up Defect on the Coating Process of Automotive Sheet, *JIANFENG HE*, Shanghai Jiao Tong University, China

**MC-ThP-3** Investigation of Wear Resistance of 7075 Aluminum Alloy Modified Through Plasma Electrolytic Oxidation (PEO), *Bruna Freitas (Student)*, *Ricardo Torres, Carlos Laurindo*, PUCPR - Pontifícia Universidade Católica do Paraná, Brazil; *Luciane Santos*, Vrije Universiteit Brussel, Belgium; *Paulo Soares*, PUCPR - Pontifícia Universidade Católica do Paraná, Brazil

**MC-ThP-4** Nanoindentation and Micropillar Compression at Cryogenic Temperatures, *Eric Hintsala, Kevin Schmalbach, Douglas Stauffer*, Bruker Nano Surfaces, USA

# Friday Morning, May 16, 2025

<b>Plasma and Vapor Deposition Processes</b> <b>Room Palm 1-2 - Session PP4-FrM</b> <b>Deposition Technologies for Carbon-based Coatings</b> <b>Moderators: Ivan Kolev, IHI Hauser Techno Coating B.V., Netherlands, Biplab Paul, PLATIT AG, Switzerland</b>		<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: Julien Keraudy, Oerlikon Balzers Coating AG, Liechtenstein, Pantcho Stoyanov, Concordia University, Canada</b>	
8:00am		<b>INVITED: MC1-2-FrM-1</b> Linking Atomic-Scale Surface Structure and Friction via Multiscale Modelling: The Case of Carbon-Based Coatings and Tribofilms, <i>Gianpietro Moras</i> , Fraunhofer IWM, MicroTribology Center @TC, Germany	
8:20am	<b>INVITED: PP4-FrM-2</b> Insights Into Solid Lubrication Processes of DLC Films Thanks to Analytical Tribology, <i>Julien Fontaine, Antoine Normant, Jules Galipaud, Frédéric Dubreuil</i> , LTDS, CNRS / Ecole Centrale de Lyon, France		
8:40am		<b>INVITED: MC1-2-FrM-3</b> Impact of Gaseous Environments on the Tribological Performance of Steel and Advantages of DLC Coatings, <i>Pierre-Francois Cardey</i> , Cetim, France	
9:00am	<b>PP4-FrM-4</b> Diamond Like Carbon (DLC) Ablators for Fusion Energy, <i>Nicolas Vargas, Kuo-Chun Chen, Priya Raman, Martin Hoppe, Fred Elsner</i> , General Atomics, USA		
9:20am	<b>PP4-FrM-5</b> Multifunctional Nanocomposite Coatings: Aerosol Assisted Plasma Deposition, <i>Alexis Aussonne (Student)</i> , LCC, Laplace, France	<b>MC1-2-FrM-5</b> Study of Microabrasive Wear on TiB <sub>2</sub> /TiB Hard Layer Formed on Ti6Al4V Alloy, <i>Marco A Melo-Pérez</i> , Av. Instituto politécnico nacional, Mexico; <i>German A. Rodríguez-Castro, Alfonso Meneses-Amador, Ezequiel A. Gallardo-Hernández, Israel Arzate-Vázquez, José A Nieto-Sosa</i> , Instituto Politécnico Nacional, Mexico	
9:40am	<b>PP4-FrM-6</b> Amorphous Carbon Thin Films for Electron Multipacting Mitigation in the Large Hadron Collider Vacuum System, <i>Valentine Petit, Pedro Costa Pinto, Mathias Gegg, Christos Kouzios, Giovanni Marinaro, Andrea Rocchi, Guillaume Rosaz</i> , European Organization for Nuclear Research, Switzerland	<b>MC1-2-FrM-6</b> Tribology of Protective CrN Coatings in Arctic Environmental Conditions, <i>Forest Thompson, Elyse Jensen, Nathan Madden, Grant Crawford</i> , South Dakota School of Mines and Technology, USA	
10:00am	<b>INVITED: PP4-FrM-7</b> With Carbon Coatings towards CO <sub>2</sub> Neutrality - Industrialization in Electrochemical and Tribological Applications, <i>Martin Kopte</i> , VON ARDENNE GmbH, Dresden, Germany		
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