

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
- TS** Topical Symposium on Sustainable Surface Engineering
 - TS1** Coatings for Batteries and Hydrogen Applications
 - TS2** (Photo)electrocatalysis and Solar/Thermal Conversion
 - TS3** Circular Strategies for Surface Engineering

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	EXHIBITION	IA3-TuA: Innov Surface Eng for Adv Cutting and Forming Tool Apps	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	POSTER SESSIONS							
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	PL-MoM-1 Welcome and Opening Remarks,	
8:20am	INVITED: PL-MoM-2 ICMCTF Plenary Lecture: Past, Present and Future of All Solid State Batteries – Challenges and Opportunities, Shirley Meng , Argonne National Lab, The University of Chicago, USA	
8:40am		
9:00am		

Monday Morning, May 12, 2025

<p>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Town & Country C - Session CM4-1-MoM Simulations, Machine Learning and Data Science for Materials Design and Discovery I Moderators: Ferenc Tasnadi, Linköping University, Sweden, Davide G. Sangiovanni, Linköping University, Sweden</p>		<p>Functional Thin Films and Surfaces Room Palm 5-6 - Session MB2-1-MoM Thin Films for Electronic Devices I Moderators: Jiri Houska, University of West Bohemia, Czechia, Spyros Kassavetis, Aristotle University of Thessaloniki, Greece</p>	
10:00am	<p>INVITED: CM4-1-MoM-1 Crystal Symmetry Determination in Electron Diffraction Using Machine Learning, Kevin Kaufmann, Oerlikon Metco, USA</p>		
10:20am			<p>MB2-1-MoM-2 Enhanced Etching Resistance of Y2O3 Films Through Microstructure Control via Thermal Annealing, Shiao Wang, Qiuming Fu, Hongyang Zhao, Wuhan Institute of Technology, China; Tomasz Liskiewicz, Manchester Metropolitan University, UK; Ben Beake, Micro Materials Ltd, UK; Yanwen Zhou, Wuhan Pudi Vacuum Technology Co., China</p>
10:40am	<p>CM4-1-MoM-3 Perturbation Analysis and Solutions to the One-Dimensional Cahn-Hilliard Equation in Thin Films, Rahul Basu (Student), 71 Nagavarpalyam, India</p>		<p>MB2-1-MoM-3 Integration of Pzt with Transparent Conductive Layers for Enhanced Piezoelectric Applications, Nicoleta Nedelcu, Fred Harford, Dylan Webb, Mount Royal University, Canada; Cristian Rugina, Ana Maria Mitu, Institute of Solid Mechanics Romanian Academy, Romania; Arcadie Sobetkii, MGM Star Construct Ltd, Romania</p>
11:00am	<p>CM4-1-MoM-4 Predicting Segregation Behaviour in Polycrystalline Materials: A Case Study of P in Fe, Amin Reiners-Sakic, Christoph Dösinger, Alexander Reichmann, Ronald Schnitzer, Lorenz Romaner, David Holec, Montanuniversität Leoben, Austria</p>		<p>MB2-1-MoM-4 High-Quality C-Textured Sc0.36Al0.67N Thin Films on 200 Mm Si Wafers for Piezoelectric Applications, Sanjay Nayak, Silicon Austria Labs GmbH, Austria</p>
11:20am	<p>CM4-1-MoM-5 Tunable Interface Stress in Cu/W Nanomultilayers, Yang Hu, Giacomo Lorenzin, Jeyun Yeom, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; Manura Liyanage, William A. Curtin, EPFL, Switzerland; Lars P.H. Jeurgens, Jolanta Janczak-Rusch, Claudia Cancellieri, Vladyslav Turla, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland</p>		<p>MB2-1-MoM-5 Patterned Silver Nanowire Network for CdSe@CdZnS/ZnS Green Quantum Dot Light-Emitting Diodes, Chia-Yu Lin, Tzu-Hsu Wen, Chun-Yuan Huang, National Taitung University, Taiwan</p>
11:40am	<p>CM4-1-MoM-6 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, David Castillo Lozada (Student), Toby Thomassen, Scott Lewis, Axel Scherer, Guy De Rose, California Institute of Technology, USA; Luisa Bozano, Kevin Gu, Applied Materials, USA</p>		<p>MB2-1-MoM-6 Effects of Room Temperature Sputtered Nano-Interfaced WxMoyO3 Nanograins on Highly Responsive NO Sensing, Somdatta Singh (Student), Indian Institute of Technology Roorkee, India; Ravikant Adalati, University of Mons, Belgium, India; Prachi Gurawal, Raman Devi, Indian Institute of Technology Roorkee, India; Gaurav Malik, Jeonbuk National University, Republic of Korea, India; Davinder Kaur, Ramesh Chandra, Indian Institute of Technology Roorkee, India</p>
12:00pm			<p>MB2-1-MoM-7 Study on the Effect of Different Oxygen Flow Rates on Vanadium-Doped Zinc Oxide Thin Film Piezoelectric Pressure Sensors, Cheng Han Hsu (Student), National Cheng Kung University (NCKU), Taiwan</p>

Monday Morning, May 12, 2025

	<p>Plasma and Vapor Deposition Processes Room Town & Country A - Session PP1-1-MoM PVD Coatings and Technologies I Moderators: Qi Yang, National Research Council of Canada, Christian Kalscheuer, IOT, RWTH Aachen, Germany</p>	<p>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials Room Palm 1-2 - Session MD1-1-MoM Development and Characterization of Bioactive Surfaces/Coatings I Moderators: Mathew T. Mathew, University of Illinois College of Medicine at Rockford and Rush University Medical Center, USA, Sandra E. Rodil, Universidad Nacional Autónoma de México</p>
10:00am	<p>INVITED: PP1-1-MoM-1 Complementary Cutting-Edge Plasma Monitoring Techniques for Process Development, Production Control and Machine Learning (ML), Thomas Schütte, Jan-Peter Urbach, Peter Neiß, Marius Radloff, Hokuto Kikuchi, PLASUS GmbH, Germany</p>	<p>MD1-1-MoM-1 Hybrid Ceramic Coating with Enhanced Corrosion Resistance for Magnesium-Based Biodegradable Implants, Abdelrahman Amin (Student), 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 Abdrabo, The University of Tennessee at Chattanooga, USA</p>
10:20am		<p>INVITED: MD1-1-MoM-2 Functional Coatings by Low Vacuum Plasma for the Innovation in Regenerative and Reparative Medicine, Pascale Chevallier, Carlo Paternoster, Francesco Copes, Laval University, Canada; Andranik Sarkissian, Plasmionique Inc., Canada; Diego Mantovani, Laval University, Canada</p>
10:40am	<p>PP1-1-MoM-3 Plasma Diagnostics and Thin Film Synthesis Using an Industrial-Sized DC Vacuum Arc Source with Magnetic Steering and a TaB₂ Cathode, Igor Zhirkov, Andrejs Petruhins, Ali Saffar Shamshirgar, Materials Design Division, Linköping University, Sweden; Philipp Immich, IHI Hauzer Techno Coating B.V., Netherlands; Szilard Kolozsvári, Peter Polcik, PLANSEE Composite Materials GmbH., Germany; Johanna Rosen, Materials Design Division, Linköping University, Sweden</p>	
11:00am	<p>PP1-1-MoM-4 Novel Approach in Cathodic Arc Evaporation Enabling Precise Control Over Energy of Deposited Ions in Industrial Conditions, Martin Ucik (Student), Masaryk University, Czechia</p>	<p>MD1-1-MoM-4 10-h2da Coating on Polyvinyl Chloride Catheter Biomaterials for Prevention of Candida-Associated Urinary Tract Infections, Jermiah Tate (Student), Joel Bumgardner, Tomoko Fujiwara, J. Amber Jennings, University of Memphis, USA</p>
11:20am	<p>PP1-1-MoM-5 Industrial-Scale PVD Deposition of Aluminium Oxide, Ivan Kolev, IHI Hauzer Techno Coating B.V., Netherlands; Philipp Immich, Daniel Barnholt, Julia Janowitz, Louis Tegelaers, IHI Hauzer Techno Coating B.V., Netherlands; Rolf Schäfer, Robeko GmbH & Co. KG, Germany; Tobias Radny, Robeko GmbH & Co., KG, Germany</p>	<p>INVITED: MD1-1-MoM-5 Hydrogen-Treated Orthopedic Implants : A Novel Approach to Enhance Biocompatibility and Mitigate Inflammation, Ren-Jei Chung, National Taipei University of Technology, Taiwan</p>
11:40am	<p>PP1-1-MoM-6 Control of Microstructure and Phase of Sputter-Deposited Tantalum Thin Films for Inkjet Device Applications, Brittney Burant (Student), HP Inc, USA</p>	
12:00pm	<p>PP1-1-MoM-7 Dc Magnetron Sputtering Yield Amplification of C, Si, and Ge Doped with W, Cu, Ta, or Mo, Julio Cruz, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; Rebecca Giffard, Universidad de Guadalajara, Mexico; Stephen Muhl, Marco Martínez, Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; Roberto Sanginés, Roberto Machorra, Centro de Nanociencias y Nanotecnología. Universidad Nacional Autónoma de México; Efraín Chávez, Instituto de Física. Universidad Nacional Autónoma de México</p>	<p>MD1-1-MoM-7 Nano-ZrO₂ Film Improved Tribocorrosion Performance of Surface-Textured Stainless Steel in 0.9% NaCl Solution, Xiulin Ji, Shantou University, China</p>

Monday Morning, May 12, 2025

<p>Topical Symposium on Sustainable Surface Engineering Room Town & Country B - Session TS1-1-MoM Coatings for Batteries and Hydrogen Applications I Moderators: Martin Welters, KCS Europe GmbH, Germany, Chen-Hao Wang, National Taiwan University of Science and Technology, Taiwan, Fan-Bean Wu, National United University, Taiwan</p>		
10:00am	<p>INVITED: TS1-1-MoM-1 Coating Innovations for Green Energy: Enabling Hydrogen Technologies, Mehmet Öte, Schaeffler Technologies AG & Co. KG, Germany</p>	
10:20am		
10:40am	<p>INVITED: TS1-1-MoM-3 Intermediate-Temperature Proton-Conducting Solid Oxide Fuel Cells and Electrolyzers for Clean Energy, Sheng-Wei Lee, Chung-Jen Tseng, Szu-Yuan Chen, National Central University, Taiwan</p>	
11:00am		
11:20am	<p>INVITED: TS1-1-MoM-5 Development of Anode Electrodes for Water Electrolysis by Electroplating, Pei-Chi Lin, Chieh-Fu Huang, Yong-Song Chen, National Chung Cheng University, Taiwan</p>	
11:40am		
12:00pm	<p>TS1-1-MoM-7 Development of Three-Dimensional Lithium Metal Composite Electrode with Lithiophilic ALD Coating, Yu-Lun Cheng, Chih-Liang Wang, 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** The Ion and Material Design Revolution – Songs of Innocence and Experience, *Arunprabhu Sugumaran Arunachalam Sugumaran*, Sheffield Hallam University, United Kingdom; *Ryan Bower, Ming Fu*, Imperial College London, UK; *David Owen, Papken Eh. Hovsepian*, Sheffield Hallam University, UK; *Peter K. Petrov, Rupert Oulton*, Imperial College London, UK; *Arutiun P. Ehasarian*¹, Sheffield Hallam University, UK

1:20pm

¹ Bill Sproul Award and Honorary ICMCTF Lecture

Monday Afternoon, May 12, 2025

Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Town & Country C - Session CM4-2-MoA Simulations, Machine Learning and Data Science for Materials Design and Discovery II Moderators: Davide G. Sangiovanni, Linköping University, Sweden, Ferenc Tasnadi, Linköping University, Sweden		Functional Thin Films and Surfaces Room Palm 5-6 - Session MB2-2-MoA Thin Films for Electronic Devices II Moderators: Spyros Kassavetis, Aristotle University of Thessaloniki, Greece, Tomas Kubart, Uppsala University, Sweden	
1:40pm	INVITED: CM4-2-MoA-1 Computational Approach to Probing Hydrogen in Atomic Layer-Deposited Barrier Coatings, Vladyslav Turlo , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland		
2:00pm		INVITED: MB2-2-MoA-2 “Flexible Electronics” Sustainability — Challenges and Opportunities: a Materials Science View, Natalie Stigelin , Georgia Institute of Technology, USA	
2:20pm	CM4-2-MoA-3 Conditions for the Preparation of Maximum-Quality Crystalline ZnO by Molecular Dynamics Simulations of the Atom-by-Atom Film Growth, Jiri Houska, Kamila Hantova , University of West Bohemia, Czechia		
2:40pm	CM4-2-MoA-4 Effect of the Presence of Oxygen on Hydrogen Adsorption on BCC Fe Surface: A Density Functional Theory Study Combined with Molecular Dynamics Simulations, Zixiong Wei, Fei Shuang, Poulumi Dey , Delft University of Technology, Netherlands	MB2-2-MoA-4 Polycarbonate Transfer Techniques for the Fabrication of MoS ₂ Based Field Effect Transistors, Chih-Hao Chiang, Ruo-Yao Wang (Student) , Meng-Lin Tsai, National Taiwan University of Science and Technology, Taiwan	
3:00pm	CM4-2-MoA-5 Machine Learning Prediction of Work Functions for No, No ₂ , Co, Co ₂ , and H ₂ S Gas Molecules Adsorbed on ZnGa ₂ O ₄ (111) Surfaces, Po-Liang Liu, Hsiang-Yu Hsieh, Chao-Cheng Shen , National Chung Hsing University, Taiwan	MB2-2-MoA-5 Advancing Piezo-Gated Transistor Performance by Bilayer of V-doped ZnO and Mesoporous PVDF-TrFE, YU ZHEN ZHANG (Student) , National Cheng Kung University (NCKU), Taiwan	
3:20pm	CM4-2-MoA-6 ML-Assisted Atomistic Modeling of Transition Metal Diborides: Mechanical Response and Phase-Dependent Phenomena, Shuyao Lin (Student) , TU Wien, Institute of Materials Science and Technology, Austria; Davide Sangiovanni, Lars Hultman , Linköping Univ., IFM, Thin Film Physics Div., Sweden; Paul Mayrhofer, Nikola Koutna , TU Wien, Institute of Materials Science and Technology, Austria	MB2-2-MoA-6 Enhanced Synaptic Characteristics Under Applied Magnetic Field in V ₂ O ₅ /Nimn Based Switching Device for Neuromorphic Computing, Kumar Kaushlendra , Indian Institute of technology Roorkee, India; Davinder Kaur , Indian Institute of Technology Roorkee, India	
3:40pm	BREAK	BREAK	
4:00pm	INVITED: CM4-2-MoA-8 Computational Modeling of Nanoelectronics and Emerging Materials, Chao-Cheng Kaun , Academia Sinica, Taiwan	MB2-2-MoA-8 Fabrication and Characterization of Iron Titanate Thin Films as a Potential Tunnel Barrier for Magnetic Tunnel Junction (MTJ's), Adnan Kareem (Student) , Jozef Stefan Institute, Slovenia, Pakistan	
4:20pm		MB2-2-MoA-9 Fabrication of IZO/IGZO-Based Vertical Thin-Film Transistor and Its Integration with OLEDs for High-Density Display, Nahyun Kim (Student) , Seok Hee Hong, Jun Hyeok Lee, Ho Jin Lee, Tae Geun Kim, Korea University, Republic of Korea	
4:40pm		MB2-2-MoA-10 Preventing Native Oxide Formation in Niobium Thin Films Through Platinum Encapsulation, Ananya Chattaraj , Aswin Anbalagan, Brookhaven National Laboratory, USA; Jinhyun Cho , Stony Brook University, USA; Mingzhao Liu , Brookhaven National Laboratory, USA	
5:00pm		MB2-2-MoA-11 Multicomponent Doping for Suppressing Resistivity Scaling of RuAl Intermetallic Compound for Next-Generation Interconnects, Yi-Ying Fang, Yung-Hsuan Tsai, Yu-Lin Chen, Shou-Yi Chang , National Tsing Hua University, Taiwan	

Monday Afternoon, May 12, 2025

	Plasma and Vapor Deposition Processes Room Town & Country A - Session PP1-2-MoA PVD Coatings and Technologies II Moderators: Christian Kalscheuer, IOT, RWTH Aachen, Germany, Qi Yang, National Research Council of Canada	Plasma and Vapor Deposition Processes Room Palm 3-4 - Session PP6-MoA Greybox Models for Wear Prediction Moderators: Philipp Immich, IHI Hauzer Techno Coating B.V., Netherlands, Ludvik Martinu, Polytechnique Montréal, Canada
1:40pm	PP1-2-MoA-1 From PVD to CVD to ALD - Changes in Demand for Semiconductor Interconnect Metals , <i>Estrelita (Lita) Shon-Ray</i> , TECHCET, USA	INVITED: PP6-MoA-1 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	PP1-2-MoA-2 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	PP1-2-MoA-3 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	PP6-MoA-3 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	PP1-2-MoA-4 Duplex Coating Process by Plasma Enhanced Magnetron Sputtering, <i>Jianliang Lin</i> , Southwest Research Institute, USA	PP6-MoA-4 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	PP1-2-MoA-5 Influence of Post-Heat Treatment on Structural, Photocatalytic, Dielectric, and Tribological Properties of TiO ₂ /Al/TiO ₂ Multilayer Thin Films, <i>Anand Joshi, Mahendra Singh Rathore, Unnati Joshi</i> , Parul University, India	PP6-MoA-5 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	PP1-2-MoA-6 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	PP6-MoA-6 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	BREAK	BREAK
4:00pm	PP1-2-MoA-8 Optimizing Bi Stoichiometry in Bi _{0.5} Na _{0.5} TiO ₃ 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	INVITED: PP6-MoA-8 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	PP1-2-MoA-9 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	PP1-2-MoA-10 Low Temperature Deposition of Silicon Nitride Thin Films by Reactive RF Diode Sputtering, <i>Rakesh Singh</i> , Ferrotec Inc., USA	PP6-MoA-10 Determination of Residual Stress and Crystallite Size for TiAlN-Coated Milling Tools Using Laser-Spectroscopy-Based Grey-Box Modeling, <i>Nils Denkmann (Student)</i> , <i>Nelson Filipe Lopes Dias, Finn Rümenapf, Simon Jaquet, Rafael Garcia Carballo, Dirk Biermann, Wolfgang Tillmann, Jörg Debus</i> , TU Dortmund University, Germany
5:00pm	PP1-2-MoA-11 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	PP6-MoA-11 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	PP1-2-MoA-12 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	PP6-MoA-12 Characterization of AlCrV(O)N Thin Film Properties and Thermo-Mechanical Load Profiles in Machining AISI 304 Stainless Steel Using Greybox Modelling Approaches, <i>Erik Krumme, Finn Rümenapf, Kai Donnerbauer, Jannis Saelzer, Nelson Filipe Lopes Dias, Pascal Volke, Andreas Zabel, Wolfgang Tillmann, Frank Walther</i> , TU Dortmund University, Germany

Monday Afternoon, May 12, 2025

<p>Surface Engineering - Applied Research and Industrial Applications Room Town & Country D - Session IA2-1-MoA Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications I Moderators: Satish Dixit, Plasma Technology Inc., USA, Masaki Okude, Mitsubishi Materials Corporation, Japan, Jan-Ole Achenbach, KCS Europe GmbH, Germany</p>	<p>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials Room Palm 1-2 - Session MD1-2-MoA Development and Characterization of Bioactive Surfaces/Coatings II Moderators: Hamdy Ibrahim, University of Tennessee at Chattanooga, USA, Sandra E. Rodil, Universidad Nacional Autónoma de México</p>
<p>1:40pm IA2-1-MoA-1 Laser Surface Remelting Induced Reaction Sintering of Nickel and Titanium Powders, Milton Lima, Institute for Advanced Studies, Brazil; Alana Brito, Technological Institute of Aeronautics, Brazil; Felipe Costa, BRENG Co., Brazil; Rafael Siqueira, Technological Institute of Aeronautics, Brazil; Sheila Carvalho, Federal University of Espirito Santo, Brazil</p>	<p>MD1-2-MoA-1 Surface Characteristics of Magnesium-Based Nanocomposite for Enhanced Biomedical Implants, Merna Abdrrabo (Student), Tooba Tanveer, Abdelrahman Amin, Diya Patel, University of Tennessee at Chattanooga, USA; Thomas McGehee, Mostafa Elsaadany, University of Arkansas, USA; Hamdy Ibrahim, University of Tennessee at Chattanooga, USA</p>
<p>2:00pm IA2-1-MoA-2 A Comparative Study on the Formation of Micro-Arc Oxidation Coatings on AZ31 and AC84 Magnesium Alloys, Chi-Hua Chiu (Student), Shih-Yen Huang, Yueh-Lien Lee, Yu-Ren Chu, National Taiwan University, Taiwan</p>	<p>INVITED: MD1-2-MoA-2 Carbide Derived Carbon Conversion Coatings for Tribological Applications, Mike McNallan, University of Illinois - Chicago, USA</p>
<p>2:20pm INVITED: IA2-1-MoA-3 Ultra-High Vacuum Test System for Quantitative Determination of Hydrogen Permeability of Various Ceramic Coatings on Stainless Steel, Ewa Rennebro, Pacific Northwest National Laboratory, USA</p>	
<p>2:40pm</p>	
<p>3:00pm IA2-1-MoA-5 HIPIMS – Fascinating Technology to Make Next Steps in Tool, Decorative and Functional Applications, Philipp Immich, Ivan Kolev, Andreas Fuchs, Daniel Barnholt, Julia Janowitz, Louis Tegelaers, Huub Vercoulen, Chinmay Trivedi, Geert-Jan Fransen, IHI Hauzer Techno Coating B.V., Netherlands; Holger Hoche, Thomas Ulrich, TU Darmstadt, Germany; Peter Polcik, Plansee Composite Materials GmbH, Australia</p>	<p>MD1-2-MoA-5 Some Safe Ancillaries? Fretting Corrosion May Be at the Origin of Some Degradations, Jean Geringer, Mines Saint-Etienne, France; Julie Scholler, CHRU Strasbourg, 1 place de l'hopital BP 426 67091 Strasbourg cedex, France; Sandra WISNIEWSKI, François Bonnomet, CHRU Strasbourg, 1 place de l'hopital BP 426 67091 Strasbourg cedex, France., France</p>
<p>3:20pm IA2-1-MoA-6 Inorganic Sputtered Coatings to Reduce Snow Friction for Cross-Country Skiing, Pauline Lefebvre (Student), SIMAP, Grenoble-INP, CNRS, France; Fabian Wolfsperger, WSL Institute for Snow and Avalanche Research SLF, Switzerland; Jean Herody, FFS, France; Matthias Jaggi, WSL Institute for Snow and Avalanche Research SLF, Switzerland; Arnaud Mantoux, SIMAP, CNRS, University Grenoble Alpes, France; Nicolas Coulmy, FFS, France; Pascal Hagenmuller, Centre d'Etudes de la Neige, CNRM, Météo-France; Elisabeth Blanquet, SIMAP, Grenoble-INP, CNRS, France</p>	<p>MD1-2-MoA-6 Surface Modification Strategies for Improved Bioactivity: CAP-p15 Functionalization on Titanium and 316L SS Implants, Guadalupe Ureiro-Cueto, Universidad Nacional Autonoma de Mexico, Mexico; SANDRA E. RODIL, Instituto de Investigaciones en Materiales, UNAM, Mexico; Gonzalo Montoya-Ayala, Higinio Arzate, Universidad Nacional Autonoma de Mexico, Mexico</p>
<p>3:40pm BREAK</p>	<p>BREAK</p>
<p>4:00pm IA2-1-MoA-8 Influence of Corrosion on Wear and Brake Particle Emissions of Alumina-Coated and Uncoated Cast Iron Brake Discs, Ran Kai (Student), Xueyuan Nie, University of Windsor, Canada; Yezhe Lyu Lyu, Jens Wahlström, Lund University, Sweden</p>	<p>INVITED: MD1-2-MoA-8 Noble Nanoparticles Arrays Coating for Electrochemical (EC) and Surface-Enhanced Raman Spectroscopy (SERS) Biosensors, Ting-Yu Liu, Ming Chi University of Technology, Taiwan</p>
<p>4:20pm IA2-1-MoA-9 The Effect of Mg Addition on the Corrosion Resistance of Two-Step Galvanizing Zn-5Al Coating, Huan-Chang Liang, Department of Mechanical and Electro-Mechanical Engineering, National I-Lan University, Taiwan; Yen-Kai Chen, Chaur-Jeng Wang, Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taiwan</p>	
<p>4:40pm IA2-1-MoA-10 Erosion Resistant PVD Conatings on CFRP Substrates, Pablo Abarca (Student), Thibault Maerten, Oerlikon Balzers France; Cedric Jaoul, Pascal Tristant, University of Limoges, France; Sebastien Guimond, Oerlikon Surface Solution AG, Liechtenstein; Marjorie Cavarroc, Safran Tech, France; Simon Belveze, Oerlikon Balzers France</p>	<p>MD1-2-MoA-10 Flexible Implantable Microelectrode Arrays with Electrodeposited Nanoporous Platinum for Electrophysiology and Non-Enzymatic Glucose Sensing, Chih-Ching Tseng (Student), Yu-Lin Lee, National Taipei University of Technology, Taiwan; Pu-Wei Wu, National Yang Ming Chiao Tung University (NYCU), Taiwan; Po-Chun Chen, National Taipei University of Technology, Taiwan</p>
<p>5:00pm</p>	<p>MD1-2-MoA-11 A Self-Assembled Silica Nanobead Column-Driven Biosensing Platform for Point-of-Care Diagnostics, KangKug (Paul) Lee, Eduardo Diaz, Saiyd Harvin, Isaiah Williams, Wilberforce University, USA</p>
<p>5:20pm</p>	<p>MD1-2-MoA-12 Modelling Complexities of Tribocorrosion Processes: Evaluation and Validation, Avirup Sinha (Student), University of Illinois at Chicago, USA; Feyzi Hashemi, Flinders University, Australia; Maansi Thapa, Bill Keaty, Yani Sun, University of Illinois at Chicago, USA; Reza Hashemi, Flinders University, Australia; Mathew T. Mathew, University of Illinois at Chicago, USA</p>

Monday Afternoon, May 12, 2025

Topical Symposium on Sustainable Surface Engineering Room Town & Country B - Session TS1-2-MoA Coatings for Batteries and Hydrogen Applications II Moderators: Chen-Hao Wang, National Taiwan University of Science and Technology, Taiwan, Martin Welters, KCS Europe GmbH, Germany, Fan-Bean Wu, National United University, Taiwan	
1:40pm	TS1-2-MoA-1 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	TS1-2-MoA-2 Investigation of $Ba_{0.5}Ce_{0.3}Zr_{0.18}Y_{0.01}Yb_{0.01}O_{3-\delta} / Y_{0.2}Ce_{0.8}O_{2-\delta}$ 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	TS1-2-MoA-3 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	TS1-2-MoA-4 Study on Mo_xN 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	TS1-2-MoA-5 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	TS1-2-MoA-6 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	BREAK
4:00pm	TS1-2-MoA-8 Effects of Nb Content on the Water Splitting Performance of FeNiMoWN _x 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	TS1-2-MoA-9 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	TS1-2-MoA-10 Applicability of MoS_2 -Asic Heterostructure for Durable Supercapacitance and NO_2 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	TS1-2-MoA-11 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	TS1-2-MoA-12 Research Coating Conductive Material on $SiO_x@rGO$ 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

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

Tuesday Morning, May 13, 2025

	<p>Protective and High-temperature Coatings Room Town & Country A - Session MA1-1-TuM Coatings to Resist High-temperature Oxidation, Corrosion, and Fouling I Moderators: Justyna Kulczyk-Malecka, Manchester Metropolitan University, UK, Francisco Javier Pérez Trujillo, Universidad Complutense de Madrid, Spain</p>	<p>Protective and High-temperature Coatings Room Palm 3-4 - Session MA3-1-TuM Hard and Nanostructured Coatings I 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</p>
8:00am	<p>INVITED: MA1-1-TuM-1 High Temperature Corrosion Resistant Coatings: Recent Aluminide Developments for Renewable Energy Applications, Pauline Audigié, Cristina Lorente, Sergio Rodriguez, Loïc Oger, Alina Agüero, Instituto Nacional de Técnica Aeroespacial (INTA), Spain</p>	<p>INVITED: MA3-1-TuM-1 Hard TiAlTaN Coating by HIPIMS Deposition for Cutting Tools: Experiments, Simulations and Cutting Tests, Emile Hays, University of Namur, Belgium; Jérôme Muller, Pavel Maskovin, 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</p>
8:20am		
8:40am	<p>MA1-1-TuM-3 Molten Salt Corrosion and Stress Corrosion Cracking Performance of Slurry Aluminide Coated Steels for Thermal Energy Storage, Loïc OGER, Pauline Audigié, Instituto Nacional de Técnica Aeroespacial (INTA), Spain</p>	<p>MA3-1-TuM-3 Development and Comparison of AlTiN-Based HIPIMS Coatings for Microtool Machining Applications, Ivan Fernández-Martínez, Nano4Energy S.I.N.E, Spain</p>
9:00am	<p>MA1-1-TuM-4 Prediction of the Ageing Behavior of Diffusion Aluminide Coatings Using Machine Learning, 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</p>	<p>MA3-1-TuM-4 Micro-Fracture Toughness and Durability of HiPIMS-Deposited Hard Coatings used for Micro-Machining of TiAl₆V₄ Alloys, 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</p>
9:20am	<p>MA1-1-TuM-5 AI-Enhanced Correlative Microscopy: A Multi-Modal Approach to Automotive Coating Evaluation, 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</p>	<p>MA3-1-TuM-5 The Effects of Composition and Coating Thickness on the Mechanical Properties of TiZrN Coatings, Chun Lin Yang (Student), Jia-Hong Huang, National Tsing Hua University, Taiwan</p>
9:40am	<p>MA1-1-TuM-6 High-Temperature Corrosion in Contact with Molten Glass Improved by Thermal Spray Coating, 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</p>	<p>MA3-1-TuM-6 Superstoichiometric (Al,Cr)N_x Coatings with Superior Hardness, Fracture Toughness, and Wear Resistance, 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, Mojmir 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</p>
10:00am	<p>MA1-1-TuM-7 Microstructural Characterization and Isothermal Oxidation Behavior of a Nanolaminated Ti₂AlC MAX Phase Coating on TiAl 48-2-2, Radostaw Swadźba, Łukasiewicz Research Network – Uppersilesian Institute of Technology, Poland; Bogusław Mendala, Lucjan Swadźba, Silesian University of Technology, Poland; Nadine Laska, German Aerospace Center (DLR), Germany; Sarra Boubtane, German Aerospace Center, Germany; Dariusz Garbicz, Łukasiewicz Research Network – Poznań Institute of Technology, Poland</p>	<p>MA3-1-TuM-7 Connecting Phase Stability and Mechanical Properties of Ti–B–N Thin Films, 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</p>
10:20am	<p>MA1-1-TuM-8 Harnessing Ti₂AlN MAX Phase Based PVD Coatings on Titanium Aluminide Alloys for High Temperature Applications, Sarra Boubtane, German Aerospace Center, Germany</p>	<p>MA3-1-TuM-8 Effect of Oxygen Content and Thickness on the Property and Structure of Zr(O,N) Thin Film, Chi Feng Hung (Student), Jia Hong Huang, National Tsing Hua University, Taiwan</p>
10:40am	<p>MA1-1-TuM-9 Empowering Pvd for Corrosion Protection: Ti(Al,Mg)Gdn Coatings with Game-Changing Corrosion Performance, Holger Hoche, Grafenstraße 2, Germany</p>	<p>MA3-1-TuM-9 Effect of Fluence on Zirconium Nitride Coating Irradiated by 5-MeV-Proton, 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)</p>

Tuesday Morning, May 13, 2025

	Surface Engineering - Applied Research and Industrial Applications Room Palm 1-2 - Session IA1-TuM Advances in Application Driven Research and Hybrid Systems, Processes and Coatings Moderators: Vikram Bedekar, Timken Company, USA, Hana Barankova, Uppsala University, Sweden	Surface Engineering - Applied Research and Industrial Applications Room Town & Country D - Session IA2-2-TuM Surface Modification of Components in Automotive, Aerospace and Manufacturing Applications II Moderators: Satish Dixit, Plasma Technology Inc., USA, Jan-Ole Achenbach, KCS Europe GmbH, Germany, Masaki Okude, Mitsubishi Materials Corporation, Japan
8:00am	IA1-TuM-1 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	INVITED: IA2-2-TuM-1 2D Material-Based Coatings for Superlubricity in Dry Sliding and Rolling Contacts, <i>Diana Berman</i> , University of North Texas, USA
8:20am	IA1-TuM-2 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; <i>Sea-Fue Wang</i> , National Taipei University of Technology, Taiwan	
8:40am	IA1-TuM-3 Novel CO ₂ 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	IA2-2-TuM-3 Exploring Controlled Plastic Deformation as a Preferable Pre-Treatment for Enhanced Tribo-Mechanical Properties of Fundamental Industrial Materials: Design of Wear Resistant Surfaces/sub-Surfaces, <i>Daniel Tobota</i> , <i>Puneet Chandran</i> , Łukasiewicz Research Network – Krakow Institute of Technology, Poland; <i>Łukasz Maj</i> , <i>Jerzy Morgiel</i> , Institute of Metallurgy and Materials Science of Polish Academy of Sciences, Poland
9:00am	IA1-TuM-4 Improving Doping Concentration for Shallow N ⁺ /P Substrate Germanium Pn Junction with Plasma-Immersion Ion Implantation Process, <i>Bo-Syun Syu (Student)</i> , National Tsing Hua University, Taiwan; <i>Dun-Bao Ruan</i> , Fuzhou University, China; <i>Kuei-Shu Chang-Liao</i> , <i>Po-Chun Wu</i> , National Tsing Hua University, Taiwan	INVITED: IA2-2-TuM-4 Liquid Feedstock Thermal Spraying for Advanced Functional Coatings, <i>Shrikant Joshi</i> , University West, Sweden
9:20am	IA1-TuM-5 Molecular Layer Deposition – Versatile Tool for High Performance CNT-Polymer Composites, <i>Roie Yerushalmi</i> , Edmond J Safra Campus, Givat Ram, Israel	
9:40am	INVITED: IA1-TuM-6 PVD Coatings for the Hydrogen economy - Applications, Testing and Production, <i>Herbert Gabriel</i> , PVT Plasma und Vakuum Technik GmbH, Germany	IA2-2-TuM-6 Research on HVOF Sprayed WCCoCr Coatings in Terms of Their Use on Sliding Rings of Mechanical Seals, <i>Aleksander Iwaniak</i> , Silesian University of Technology, Poland; <i>Łukasz Norymberczyk</i> , ANGA Uszczelnienia Mechaniczne Sp. z o.o., Poland; <i>Grzegorz Więclaw</i> , Certech Sp. z o.o., Poland
10:00am		IA2-2-TuM-7 Advanced Coatings for Critical Semiconductor Manufacturing Components, <i>Julien Keraudy</i> , Oerlikon Surface Solutions AG, Liechtenstein; <i>Matthew Kirk</i> , Oerlikon Surface Solutions AG, USA; <i>Venkateswarlu Kuchi</i> , Oerlikon Surface Solutions AG, Liechtenstein; <i>John Coniff</i> , Oerlikon Surface Solutions AG, USA; <i>Klaus Boebel</i> , <i>Florian Rovere</i> , Oerlikon Surface Solutions AG, Liechtenstein
10:20am	IA1-TuM-8 Energy Bandgap Engineering for Gate-All-Around Poly-Ge Charge Trapping Flash Memory by Using Stacking Tunneling Layer, <i>Kuei-Shu Chang-Liao</i> , National Tsing Hua University, Taiwan; <i>Dun-Bao Ruan</i> , Fuzhou University, China; <i>Chu-Chun Su</i> , National Tsing Hua University, Taiwan	INVITED: IA2-2-TuM-8 Thermal Spray Coatings in Aerospace Applications: State-of-Art and Path Forward, <i>Hamid Mohseni</i> , Pratt & Whitney, USA
10:40am	IA1-TuM-9 Analysis of White Strip Defects in the Galvannealed Coating Surface of Hot -Dip Galvannealed Dp Steel, <i>Guang Chen</i> , Baoshan Iron & Steel Co., Ltd., Shanghai, China	

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 **INVITED: EX-TuM-1** Surface Engineering and Rocket Science –Surface Engineering Solutions to Protect Spacecrafts and Ground Infrastructure Against Terrestrial and “Extraterrestrial” Harsh Environments, *Juan Flores Preciado*, SpaceX, USA

11:20am

11:40am

Tuesday Afternoon, May 13, 2025

	<p>Surface Engineering - Applied Research and Industrial Applications Room Palm 1-2 - Session IA3-TuA Innovative Surface Engineering for Advanced Cutting and Forming Tool Applications Moderators: Alessandro Bertè, Lafer SpA, Italy, Markus Esselbach, Oerlikon Balzer, Liechtenstein</p>	<p>Protective and High-temperature Coatings Room Palm 3-4 - Session MA3-2-TuA Hard and Nanostructured Coatings II 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</p>
1:40pm	<p>IA3-TuA-1 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>INVITED: MA3-2-TuA-1 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>IA3-TuA-2 Effect of Si Alloying on CrN Coatings Deposited by S3p Technology for Plastic Processing Applications, <i>Alessandro Togni, Denis Kurapov, Thomas Vermland</i>, Oerlikon Surface Solutions AG, Liechtenstein</p>	
2:20pm	<p>IA3-TuA-3 Surface Engineering of AlCrN-Coated Carbide through Laser Texturing for Performance Enhancement, <i>Yassmin Seid Ahmed</i>, KFUPM, Saudi Arabia</p>	<p>MA3-2-TuA-3 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>IA3-TuA-4 Advanced Cyclic Load Resistance of AlCrN Coatings for Metal Forming Applications, <i>Simon Evertz, Stefan A. Glatz, Tobias Oellers, Markus Schenkel</i>, voestalpine eifeler Vacotec GmbH, Germany</p>	<p>MA3-2-TuA-4 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>IA3-TuA-5 Bistability and Process Control in Electrolytic Plasma Processes, <i>Nicolas Laugel, Aleksey Yerokhin, Allan Matthews</i>, The University of Manchester, UK</p>	<p>MA3-2-TuA-5 Effects of Different Interlayer Layers on Residual Stress Relief in γ-MoN/Ti and γ-MoN/Mo Thin Films, <i>Ding-Hsuan Yang (Student), Jia-Hong Huang</i>, National Tsing Hua University, Taiwan</p>
3:20pm	<p>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</p>	<p>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</p>
3:40pm		
4:00pm	<p>IA3-TuA-8 Tailoring PVD Coatings by Electro-Magnetic Fields Generated by Coil Systems for Cathodic Arc Evaporation, <i>Dominic Stangier</i>, Oerlikon Balzers Coating Germany GmbH, Germany</p>	<p>MA3-2-TuA-8 Highly Stacked Ge_{0.8}Si_{0.2} Nanosheets Fabricated by Wet Etching of MBE-Grown Superlattice Films, <i>Zefu Zhao, Dun-Bao Ruan</i>, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China; <i>Kai-Jihh Gan</i>, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China; <i>Qian Cheng Yang</i>, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China; <i>Kuei-Shu Chang-Liao</i>, Department of Engineering and System Science, National Tsing Hua University, Taiwan; <i>Jie-yin Zhang</i>, SongShan Lake Materials Laboratory, Center for Semiconductor Heterogeneous Materials and Devices, Dongguan 523830, China; <i>Shenglin Pan</i>, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China</p>
4:20pm	<p>IA3-TuA-9 Advanced Nano-Bio Technology for Smart Drug Delivery, <i>Md Zaved Hossain KHAN</i>, Dept. of Chemical Engineering, Jashore University of Science and Technology, Bangladesh; <i>Md Romzan Ali</i>, Jashore University of Science and Technology, Bangladesh</p>	<p>MA3-2-TuA-9 A TEM and Nanoindentation Study of the Correlation between Composition, Structure and Mechanical Properties of the AlCu Thin Film System, <i>Dániel Olasz (Student)</i>, <i>Quang Chinh Nguyen</i>, Eötvös Loránd University, Hungary; <i>Noémi Szász, György Sáfrán</i>, HUN-REN Centre for Energy Research, Hungary</p>

Tuesday Afternoon, May 13, 2025

Room Palm 5-6		
1:40pm	INVITED: MC2-1-TuA-1 Nanoscale Interface Engineering for Thin Films on Polymer Substrates, Barbara Putz , EMPA (Swiss Federal Laboratories for Materials Science and Technology), Switzerland	Tribology and Mechanics of Coatings and Surfaces Session MC2-1-TuA Mechanical Properties and Adhesion I Moderators: Carsten Gachot, TU Wien, Austria, Alice Lassnig, Austrian Academy of Sciences, Austria
2:00pm		
2:20pm	MC2-1-TuA-3 Trilayer Fracture and Adhesion Investigated with in-Situ Synchrotron Radiation, Megan J. Cordill , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria; Shuhei Altaf Husain , Université Sorbonne Paris Nord, France; Claus O.W. Trost , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Austria; Damien Faurie , Université Sorbonne Paris Nord, France; Pierre O. Renault , University of Poitiers, Pprime Institute, France	
2:40pm	MC2-1-TuA-4 The Model to Explain the Origin of Residual Thin Film Stress, Tong Su (Student) , Eric Chason , Brown University, USA	
3:00pm	MC2-1-TuA-5 Novel Approach for Scratch Analysis of Ductile Metallic Layers on Fragile Substrates, Mohammad Arab Pour Yazdi , Pavel Sedmak , Anton Paar TriTec SA, Switzerland; Parth Kotak , Anton Paar USA; Jiri Nohava , Anton Paar TriTec SA, Switzerland	
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
3:40pm		
4:00pm	MC2-1-TuA-8 The Comparison in Microstructure and Mechanical Properties of MoN Films Deposited by RFMS and HiPIMS Techniques, Chi-Yueh Chang (Student) , National United University, Taiwan	
4:20pm	MC2-1-TuA-9 Quantitative 3D FIB-SEM Characterization of Single Cu Particle Impacts for Cold Spray Applications, Veera Panova (Student) , Massachusetts Institute of Technology, USA; Christopher Schuh , Northwestern University, USA	
4:40pm	MC2-1-TuA-10 Mechanical Properties and Deformation Mechanisms of Metallic Thin Films Synthesized by Pulsed Laser Deposition, Francesco Bignoli , Davide Vacirca , Philippe Djemia , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; Andrea Li Bassi , Department of Energy, Politecnico di Milano, Italy; James Paul Best , Gerhard Dehm , Max-Planck Institut für Eisenforschung, Germany; Matteo Ghidelli , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France	
5:00pm	MC2-1-TuA-11 The Forgotten Method: Coatings Mechanical Properties Calculated According to ISO Standard 14577, Esteban Broitman , EDB Engineering Consulting, France	

Tuesday Afternoon, May 13, 2025

Room Town & Country A	
1:40pm	INVITED: MA1-2-TuA-1 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	MA1-2-TuA-3 Advanced Chemical Vapor Deposition Technology for High Temperature Applications, <i>Natasa Djordjevic, Anne Zhang, Hristo Strakov</i> , IHI Bernex AG, Switzerland
2:40pm	MA1-2-TuA-4 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	MA1-2-TuA-5 Oxygen Concentration Governs High-Temperature Oxidation Behavior of $(Cr_{0.5}Al_{0.5})(O_{\gamma}N_{1-\gamma})$ 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	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
3:40pm	
4:00pm	INVITED: MA2-1-TuA-8 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	MA2-1-TuA-10 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
5:00pm	MA2-1-TuA-11 PVD Ce-Coating to Mitigate Intergranular Oxidation of Additively Manufactured Ni-Base Alloy In625, <i>Anton Chyrkin, Andrea Fazi, Mohammad Sattari, Mattias Thuvander</i> , Chalmers University of Technology, Gothenburg, Sweden; <i>Wojciech J. Nowak</i> , Rzeszow University of Technology, Rzeszow, Poland; <i>Dmitry Naumenko</i> , Forschungszentrum Jülich GmbH, Germany; <i>Jan Froitzheim</i> , Chalmers University of Technology, Gothenburg, Sweden

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>Topical Symposium on Sustainable Surface Engineering Room Town & Country C - Session TS3-TuA Circular Strategies for Surface Engineering Moderators: Marcus Hans, RWTH Aachen University, Germany, Nina Schalk, Montanuniversität Leoben, Austria</p>		<p>Protec tive and High-temperature Coatings Room Town & Country D - Session MA4-1-TuA High Entropy and Other Multi-principal-element Materials I Moderators: Shih-Hsun Chen, National Yang Ming Chiao Tung University (NYCU), Taiwan, Pavel Soucek, Masaryk University,</p>
1:40pm		<p>INVITED: MA4-1-TuA-1 Phase-Adjustable High-Entropy Alloy Coatings Prepared via Thermal Spray Process, Shih-Hsun Chen, NYCU, Taiwan</p>
2:00pm	<p>INVITED: TS3-TuA-2 Scalable Solar-Thermal Synthesis of High-Yield Flake Graphite and Hydrogen, Timothy S. Fisher, University of California Los Angeles, USA</p>	
2:20pm		<p>MA4-1-TuA-3 Three Noble Metals, Three Different Stories: Unraveling the Complex Behavior of Cu, Ag, and Au in CrMnFeCoNi High-Entropy Alloy Thin Films, Salah-eddine benrazouq (Student), Institut Jean Lamour - Université de Lorraine, France; Ekaterina V. Gunina, Svyatoslav Povarov, School of Physics and Engineering, ITMO University, Russian Federation; Jaafar Ghanbaja, Sylvie Migot, Alexandre Nominé, Jean François Pierson, Valentin A. Milichko, Institut Jean Lamour - Université de Lorraine, France</p>
2:40pm	<p>TS3-TuA-4 Developing Next Generation Sustainable Flexible Food Packaging Materials, Peter Kelly, Manchester Metropolitan University, UK; Carolin Struller, Bobst Manchester Ltd, UK; Glen West, Manchester Metropolitan University, UK; Nick Copeland, Bobst Manchester Ltd, UK; Gwyneth Spence, Manchester Metropolitan University, UK</p>	<p>MA4-1-TuA-4 Mechanical, Tribological and Corrosion Behavior of CoCrFeNiMn High-Entropy Thin Films, Lin Wu (Student), McGill University, Canada; León Zendejas Medina, McGill University, KTH Royal Institute of Technology, Canada; Richard Chromik, Janine Mauzeroll, McGill University, Canada</p>
3:00pm	<p>TS3-TuA-5 PFAS Free Anti-Stick Coatings for Superior Electrosurgical Performance, Noora Manninen, Oerlikon Surface Solutions, Liechtenstein; Sanna Tervakangas, Oerlikon Surface Solutions, Finland; Klaus Boebel, Oerlikon Surface Solutions, Liechtenstein</p>	<p>MA4-1-TuA-5 Microstructure and Mechanical Properties Evaluation of CoCrNiTiAl Multiple-Principal Element Alloy Thin Films: Effect of TiAl Additions, Pongpak Chiyasak (Student), Department of Materials Engineering, Faculty of Engineering, Kasetsart University, Thailand; Jun-Xing Wang, Ming Chi University of Technology, Taiwan; Chia-Lin Li, Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; Surapit Posri, Thanawat Santawee, Worawat Wattanathana, Aphichart Radchanarowan, Department of Materials Engineering, Faculty of Engineering, Kasetsart University, Thailand; Jyh-Wei Lee, Ming Chi University of Technology, Taiwan</p>
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
3:40pm		
4:00pm	<p>TS3-TuA-8 Design of Defect Structure in an Epitaxial VN Bilayer Film by Tailoring Nitrogen Concentration and Interfacial Strain, Marcus Hans, Damian Holzapfel, RWTH Aachen University, Germany; Zhuo Chen, Erich Schmid Institute of Materials Science, Austria; Soheil Karimi Aghda, Michal Fečík, RWTH Aachen University, Germany; Daniel Primetzhofer, Uppsala University, Sweden; Zaoli Zhang, Erich Schmid Institute of Materials Science, Austria; Jochen Schneider, RWTH Aachen University, Germany</p>	<p>MA4-1-TuA-8 Effects of Deposition Parameters and Post-Annealing Treatment on the Microstructure and Mechanical Properties of TiZrNbTaMo High Entropy Alloy Films, Chia-Lin Li, Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; Sen-You Hou, Department of Materials Science and Engineering, National Tsing Hua University, Taiwan; Bih-Show Lou, Chemistry Division, Center for General Education, Chang Gung University, Taiwan; Jyh-Wei Lee, Department of Materials Engineering, Ming Chi University of Technology, Taiwan; Po-Yu Chen, Department of Materials Science and Engineering, National Tsing Hua University, Taiwan</p>
4:20pm	<p>INVITED: TS3-TuA-9 Low Friction Sputtering Coatings, a Sustainable Option to Reduce Energy Consumption and Harmful Lubricant Usage, Albano Cavaleiro, University of Coimbra, Portugal</p>	<p>MA4-1-TuA-9 High Entropy Alloys Coatings for Inertial Confinement Fusion Hohlräume, Leonardus Bimo Bayu Aji, Daniel Goodelman, David Strozzi, Brandon Bocklund, Scott Peters, Alison Engwall, Swanee Shin, Gregory Taylor, Eunjeong Kim, James Merlo, Sergei Kucheyev, Lawrence Livermore National Laboratory, USA</p>
4:40pm		<p>MA4-1-TuA-10 Evaluation of the Microstructure and Electrocatalytic Performance of FeNiMoWCux High-entropy Alloy Thin Film, Kuan-Chen Lin, Ming Chi University of Technology, Taiwan; Bih-Show Lou, Chang Gung University, Taoyuan city, Taiwan., Taiwan; Chia Lin Li, Naveen Karuppusamy, Thi Cam Tuyen, Jyh-Wei Lee, Ming Chi University of Technology, Taiwan</p>

Wednesday Morning, May 14, 2025

	Plasma and Vapor Deposition Processes Room Town & Country B - Session PP2-1-WeM HiPIMS, Pulsed Plasmas and Energetic Deposition I Moderators: Martin Rudolph , Leibniz Inst. of Surface Eng. (IOM), Germany, Shimizu Tetsushide , Tokyo Metropolitan University, Japan	Protective and High-temperature Coatings Room Town & Country A - Session MA2-2-WeM Thermal and Environmental Barrier Coatings II Moderators: Fernando Pedraza , La Rochelle University, Laboratory LaSIE, France, Francisco Javier Pérez Trujillo , Universidad Complutense de Madrid, Spain
8:00am	PP2-1-WeM-1 Energetics and Chemistry of Cathodic Arc Ti-N Plasma: A Combinatorial Investigation Using Experimental Probes and Fluid Mechanical Modelling, Nikolaos Giocalas (Student) , Linköping Univ., IFM, Nanostructured Materials Div., Sweden; Grzegorz Greczynski , Linköping Univ., IFM, Thin Film Physics Div., Sweden; Ferenc Tasnadi , Linköping Univ., IFM, Theoretical Physics Div., Sweden; Lina Rogström , Magnus Odén , Linköping Univ., IFM, Nanostructured Materials Div., Sweden	
8:20am	PP2-1-WeM-2 Exploring the Microstructure and Mechanical Properties of TiZrNbTaMoN Highentropy Alloy Nitride Coating: Effect of Nitrogen Content, Sen-Yu Hou (Student) , National Tsing Hua University, Taiwan, China; Po-Yu Chen , National Tsing Hua University, Taiwan; Bih-Show Lou , Chang Gung University, Taiwan; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan	
8:40am	PP2-1-WeM-3 Insights into the Carbon HiPIMS Discharge: Ionized Flux Fraction and Ion Energy Distribution, Tetsuhide Shimizu , Ryo Sakamoto , Erdong Chen , Tokyo Metropolitan University, Japan; Caroline Hain , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; Peter Klein , Masaryk University, Czechia; Daniel Lundin , Linköping University, Sweden	
9:00am	PP2-1-WeM-4 Reactive Mode Transition in Multi-Pulse HiPIMS Discharge of Vanadium in Ar/O ₂ Gas Mixtures, Erdong Chen (Student) , Tetsuhide Shimizu , Tokyo Metropolitan University, Japan; Caroline Hain , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Stephanos Konstantinidis , University of Mons, Belgium; Daniel Lundin , Linköping University, Sweden	MA2-2-WeM-4 Sandphobic Thermal/Environmental Barrier Coatings for Gas Turbine Engines, Andrew Wright , Clara Mock , DEVCOM Army Research Laboratory, USA; Timothy Sharobem , Oerlikon Metco, USA; Luis Bravo , Anindya Ghoshal , DEVCOM Army Research Laboratory, USA
9:20am	PP2-1-WeM-5 HiPIMS goes Ferroelectric: Improving the Remnant Polarization and Leakage in Ferroelectric AlScN for Memory Applications, Federica Messi , Jyotish Patidar , Nathan Rodkey , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland; Morgan Trassin , ETH Zurich, Switzerland; Sebastian Sjol , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland	MA2-2-WeM-5 A New Thermal Barrier Coating with Strong Resistance to Molten Silicate Attack and Fracture, Ying Chen , The University of Manchester, UK
9:40am	PP2-1-WeM-6 Controlling Film Growth by Changing the Target Thickness, Diederik Depla , Farzaneh Ahangarani Farahani , Andreas Debrabandere , Ghent University, Belgium	MA2-2-WeM-6 Enhanced Oxidation Resistance of Ni substrate by Sputtered Nanotwinned Al ₅ SiCo ₂₀ Cr ₂₀ Ni ₄₅ NbMo ₄ Medium-Entropy Alloy Thin Films at High Temperatures, Jun-Hui Qiu (Student) , Yi-Chun Yen , Fan-Yi Ouyang , Department of Engineering and System Science, National Tsing Hua University, Taiwan
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
10:20am		
10:40am		
11:00am	PP2-1-WeM-10 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, Sheng-Jui Tseng (Student) , National Taipei University of Technology, Taiwan; Chia-Lin Li , Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan; Yung-Chin Yung , National Taipei University of Technology, Taiwan; Bih-Show Lou , Chemistry Division, Center for General Education, Chang Gung University, Taiwan; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan	
11:20am	PP2-1-WeM-11 Effects of High-Power Impulse Plasma Source (HiPIPS) Parameters on the Properties of Aluminum Thin Films Synthesized at Atmospheric Pressure, Brianna Hoff (Student) , Forest Thompson , Nathan Madden , Grant Crawford , South Dakota School of Mines and Technology, USA	
11:40am	PP2-1-WeM-12 Enhancing CrAl Ionization in HiPIMS Using Auxiliary Targets: Insights from Time-Averaged OES, Kai-Shawn Tang (Student) , Ying-Xiang Lin , Chih-Yen Lin , Yi-Hui Lee , Wan-Yu Wu , National United University, Taiwan	

Wednesday Morning, May 14, 2025

Protective and High-temperature Coatings Room Palm 3-4 - Session MA3-3-WeM Hard and Nanostructured Coatings III 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		Protective and High-temperature Coatings Room Town & Country D - Session MA4-2-WeM High Entropy and Other Multi-principal-element Materials II Moderators: Jean-François Pierson, IJL - Université de Lorraine, France, Frederic Sanchette, Université de Technologie de Troyes, France		
8:00am	MA3-3-WeM-1 Controlling Phase Selection, Preferred Orientation, and Van Der Waals or Conventional Epitaxy in Molybdenum Oxide Films, Faezeh Alijan Farzad Lahiji (Student) , Linköping University, IFM, Sweden; Biplab Paul , PLATIT AG, Switzerland; Ganpati Ramanath , Rensselaer Polytechnic Institute, USA; Arnaud le Febvrier , Per Eklund, Uppsala University, Angstrom Laboratory, Sweden	INVITED: MA4-2-WeM-1 Oxidation Resistance of High Entropy Nitride Thin Films Deposited by Magnetron Sputtering, Djallel Eddine Touaibia , Abdelhakim Bouissil , Sofiane Achache , Mohamed El Garah , Frederic Sanchette , Université de Technologie de Troyes, France		
8:20am	MA3-3-WeM-2 Comparative Study of the Effect of W and Nb Addition on Microstructure and Properties of Zr-Cu-Based Thin-Film Metallic Glasses, Deepika Thakur (Student) , Michaela Červená , Radomír Čerstvý , Petr Zeman , University of West Bohemia - NTIS, Czechia			
8:40am	MA3-3-WeM-3 Tailoring Nanostructure and Functional Properties of Sputter-Deposited Cu-Based Films by Zr Alloying, Mariia Zhadko , Anna Benediktová , Radomír Čerstvý , Jiří Houška , Jiří Čapek , David Kolenatý , Pavel Baroch , Petr Zeman , University of West Bohemia, Czechia	MA4-2-WeM-3 Plasmonic Behaviour of Multi-Component Nitride (TiVZrNbTa) _{Nx} Thin Films, Miguel Piñeiro (Student) , Institut Jean Lamour - Université de Lorraine, France, Peru; Salah-Eddine Benrazzouq , Institut Jean Lamour - Université de Lorraine, France, Morocco; 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		
9:00am	MA3-3-WeM-4 Influence of Bilayer Periodic Thickness Ratios on the Mechanical Properties and Corrosion Resistance of AlCrNbSiTiN/AlCrn High-Entropy Alloy Nitride Multilayer Thin Films, Shang-Hua Tseng (Student) , National Taiwan University of Science and Technology, Taiwan; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan; Chaur-Jeng Wang , National Taiwan University of Science and Technology, Taiwan; Bih-Show Lou , Chang Gung University, Taiwan	MA4-2-WeM-4 Temperature Stability of High Entropy Ceramic Cr-Hf-Mo-Ta-W-N Refractory Metal Coatings, Pavel Soucek , Stanislava Debnarova , Matej Fekete , Masaryk University, Czechia; Sarka Zuzjakova , University of West Bohemia, NTIS, Czechia; Shuyao Lin , Technische Universität Vienna, Austria; Ondrej Jasek , Tatiana Pitonakova , Masaryk University, Czechia; Nikola Koutna , Technische Universität Vienna, Austria; Petr Zeman , University of West Bohemia, NTIS, Czechia		
9:20am	MA3-3-WeM-5 Impact of Microstructural Characteristics of HVOF-Deposited Cr ₃ C ₂ -Cermet Coatings on Their Performance in Sliding Abrasive Wear, Xinqing Ma , Peter Ruggiero , Curtiss-Wright Corporate, USA	MA4-2-WeM-5 Influence of Si on Structural, Mechanical, and Thermal Properties of High Entropy Carbide Thin Films Based on (Hf, Ta, Ti, V, Zr), 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		
9:40am	MA3-3-WeM-6 Interface Amorphization Controls Maximum Wear Resistance of Multi-Nanolayer Carbon/WC Coatings, Narguess Nemati , Langtoftevej 9, Viby, Denmark			
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL		COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
10:20am				
10:40am				
11:00am	MA3-3-WeM-10 Improving the Elemental Accuracy and Imaging Precision in Atom Probe Tomography of TiSiN Coatings Using Isotopic Substitution and Peak Decomposition, Saeideh Naghdali , Maximilian Schiester , Montanuniversität Leoben, Austria; Marcus Hans , RWTH Aachen University, Germany; Markus Pohler , Christoph Czetti , CERATIZIT Austria GmbH, Austria; Michael Tkadletz , Nina Schalk , Montanuniversität Leoben, Austria	MA4-2-WeM-10 The Microstructure, Mechanical Properties and Performance of High-Entropy (AlCrTiMoVNi)N Coatings Produced by Cathodic Arc Evaporation, Qi Yang , National Research Council of Canada; Alex Lothrop , Xiao Huang , Carleton University, Canada		
11:20am	MA3-3-WeM-11 Comparison of the Protective Performance of YSZ Coatings on Austenitic Steel Under Static and Dynamic Molten Carbonate Conditions, M. Teresa de Miguel , Gustavo Garcia Martín , M. Isabel Lasanta , Jaime Chaves , Francisco Javier Perez Trujillo , Universidad Complutense de Madrid, Spain; Pauline Audigié , Sergio Rodriguez , Alina Agüero , Instituto Nacional de Técnica Aeroespacial (INTA), Spain	MA4-2-WeM-11 Correlating the Structural and Mechanical Properties of (AlCrNbSiTi)N Thin Films as a Function of Substrate Bias, Vinay Jaru (Student) , Sudharshan Phani Pardhasaradhi , Venkata Girish Kotnur , University of Hyderabad, India		
11:40am	MA3-3-WeM-12 Superhard Single-phase Ti _{1-x} Al _x B _y Films with Good Oxidation Resistance Grown without External Heating using Hybrid HiPIMS/DCMS Technique, Bartosz Wicher , Linköping University, IFM, Thin Film Physics Division, Poland; Vladyslav Rogoz , Linköping University, IFM, Thin Film Physics Division, Ukraine; Oleksandr Pshyk , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland, Ukraine; Szilard Kolozsvari , Peter Polcik , Plansee Composite Materials GmbH, Germany; Ivan Petrov , University of Illinois at Urbana-Champaign, USA, Bulgaria; Lars Hultman , Grzegorz Greczynski , Linköping University, IFM, Thin Film Physics Division, Sweden	MA4-2-WeM-12 Effect of Elemental Concentration on Mechanical and Tribological Properties of (AlNbSiTiZr)N Thin Films, Tongyue Liang (Student) , Stéphanie Bessette , Raynald Gauvin , Richard Chromik , McGill University, Canada		
12:00pm	MA3-3-WeM-13 Sputter Deposition of Ultrathick Boron Carbide Coatings on Rolling Spherical Substrates, William Rios Lopez (Student) , James Merlo , Greg Taylor , Jean-Baptiste Forien , Sergei Kucheyev , Lawrence Livermore National Lab, USA	MA4-2-WeM-13 Fabrication of CrMoNbWTi High Entropy Alloy Thin Films: Effect of Ti Content, HAN-JIE CHEN (Student) , Ming Chi University of Technology, Taiwan; Bih-Show Lou , Chang Gung University, Taoyuan, Taiwan; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan		

Wednesday Morning, May 14, 2025

	<p>Surface Engineering of Biomaterials, Medical Devices and Regenerative Materials Room Palm 1-2 - Session MD2-WeM Surface Response to Biological Environments, Biointerphases, and Regenerative Biomaterials Moderators: Po-Chun Chen, National Taipei University of Technology, Taiwan, Jean Geringer, Ecole Nationale Supérieure des Mines, France, Hamdy Ibrahim, University of Tennessee at Chattanooga, USA</p>	<p>Tribology and Mechanics of Coatings and Surfaces Room Palm 5-6 - Session MC2-2-WeM Mechanical Properties and Adhesion II Moderators: Nagamani Jaya Balila, Indian Institute of Technology Bombay, India, Bo-Shiuan Li, National Sun-Yat Sen University, Taiwan</p>
8:00am	<p>INVITED: MD2-WeM-1 Modulating Cell Responses via Surface Engineering, Huinan Liu, University of California, Riverside, USA</p>	<p>INVITED: MC2-2-WeM-1 Adhesion, Delamination and Cracking of Thermal Spray Coatings: Understanding Critical Phenomena During Processing and Service, Sanjay Sampath, Stony Brook University, USA</p>
8:20am		
8:40am	<p>INVITED: MD2-WeM-3 Nanomaterials and Thin Films: Revolutionizing Bio-Applications for Early Disease Detection, Samir Iqbal, University of Texas at Rio Grand Valley, USA</p>	<p>MC2-2-WeM-3 A Study on the Surface Morphology and Tribological Behavior of Hydrided Zircaloy, Jun Xian Lin (Student), Kuan-Che Lan, National Tsing Hua University, Taiwan</p>
9:00am		<p>MC2-2-WeM-4 Effects of Stored Elastic Energy and Stress Gradients on the Tribological Behavior of TiN Coatings on D2 Steel, I-Sheng Ting (Student), Jia-Hong Huang, National Tsing Hua University, Taiwan</p>
9:20am	<p>INVITED: MD2-WeM-5 Green Fabrication of Conductive Carbon Thin Film Patterns for Biosensors, Ying-Chih Liao, National Taiwan University, Taiwan</p>	<p>MC2-2-WeM-5 Adhesion at the Glass/Metal interface probed by Colored Picosecond Acoustics, Arnaud Devos, IEMN, France</p>
9:40am		<p>MC2-2-WeM-6 The Mechanical and Tribological Performance of (V,Mo)N Coatings Deposited by Magnetron Sputtering, Yuqun Feng, Jia-Hong Huang, National Tsing Hua University, Taiwan</p>
10:00am	<p>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</p>	<p>COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL</p>
10:20am		
10:40am		
11:00am	<p>INVITED: MD2-WeM-10 Functionalized Graphene for Sensor Applications, Chi-Hsien Huang, Ming Chi University of Technology, Taiwan</p>	
11:20am		
11:40am	<p>MD2-WeM-12 Surface Functionalization of Indium Tin Oxide via (3-Aminopropyl) Triethoxysilane and Glutaraldehyde for Enhanced Sensitivity in Glucose Detection, Kai-Jhih Gan, Jialong Xiang, Fuzhou University, China; Kuei-Shu Chang-Liao, Bo-Syun Syu, National Tsing Hua University, Taiwan; Dun-Bao Ruan, Fuzhou University, China</p>	
12:00pm	<p>MD2-WeM-13 Magnetron-Sputtered Ti-Based Thin Films: A Versatile Platform for Biopotential Sensing and Neurorehabilitation, Claudia Lopes, CF-UM-UP, University of Minho, Portugal; Patrique Fiedler, Technische Universität Ilmenau, Germany; Jean Francois Pierson, Institut Jean Lamour - Université de Lorraine, France; Brigitte Vigolo, Institut Jean Lamour - Université de Lorraine (F), France; Nelson Azevedo, Nelson Azevedo & Terapias Globais, Portugal; Michael Cullinan, Department of Mechanical Engineering, The University of Texas at Austin, USA; Armando Ferreira, Filipe Vaz, CF-UM-UP, University of Minho, Portugal</p>	

Wednesday Morning, May 14, 2025

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

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, *Emanuele Sortino*, Beneq, USA

1:20pm

Wednesday Afternoon, May 14, 2025

	Functional Thin Films and Surfaces Room Palm 1-2 - Session MB1-WeA Thin Films and Surfaces for Optical Applications Moderators: Rajiv Pethe , Vital Chemicals, USA, Juan Antonio Zapien , City University of Hong Kong	Plasma and Vapor Deposition Processes Room Town & Country B - Session PP2-2-WeA HIPIMS, Pulsed Plasmas and Energetic Deposition II Moderators: Tetsushide Shimizu , Tokyo Metropolitan University, Japan, Martin Rudolph , Leibniz Inst. of Surface Eng. (IOM), Germany
2:00pm	INVITED: MB1-WeA-1 Experimental and Theoretical Insights into UV-Active Chirality in Glancing Angle Deposited Zirconia Nano-Helical Metamaterial Platforms, Ufuk Kilic , <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	INVITED: PP2-2-WeA-1 Introducing an Ionization Region Model for Reactive High-Power Impulse Magnetron Sputtering, Daniel Lundin , <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	MB1-WeA-3 Optical and Electrical Properties of Thermo-chromic W-Doped VO ₂ Films Prepared at a Reduced Temperature (350 °C) on Glass Substrates with YSZ Interlayers, Sadoon Farrukh (Student) , <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	PP2-2-WeA-3 Investigation of Surface Bond Structure and Colour Variations in Thin Films Deposited via Aca and Hipims Techniques, Milena Pazzi (Student) , <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 Lusvarghi</i> , Università degli Studi di Modena e Reggio Emilia, Italy
3:00pm	MB1-WeA-4 Enhancing Optical Properties and Photocatalytic Performance with Nanopatterned Anodized Aluminum Oxide on transparent substrate, Fu-Gi Zhong (Student) , <i>Shih-Hsun Chen</i> , National Yang Ming Chiao Tung University (NYCU), Taiwan	PP2-2-WeA-4 On Unipolar and Bipolar Hipims Pulse Configurations to Enhance Energy and Ion Flux to Insulating Substrates, Mina Farahani (Student) , <i>Tomáš Kozák</i> , <i>Jiří Čapek</i> , University of West Bohemia - NTIS, Czechia
3:20pm	MB1-WeA-5 A Comparative Study: The Structural and Optoelectronic Properties of Al- and Ga-Doped ZnO Films Deposited by Atmospheric Pressure Plasma Jet, Chih-Yun Chou (Student) , National Taiwan University, Taiwan	PP2-2-WeA-5 Influences of Target Poisoning on the Phase, Microstructure, and Mechanical Properties of Crmonbtwvc High Entropy Alloy Carbide Thin Films Grown by a Superimposed Highpower Impulse and Medium-Frequency Magnetron Sputtering System, Tse Wei Chen (Student) , <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	MB1-WeA-6 Unveiling the Interplay of Structural, Optical, and Hydrophobic Properties of Sputtered Grown PTFE@AlSiN Thin Films, Raman Devi , Somdatta Singh , Ramesh Chandra , IIT Roorkee, India	PP2-2-WeA-6 Novel Superimposed HIPIMS/RF Sputtering Process on a Single Magnetron, Mark Günter , Melec GmbH, Germany; Caroline Adam , Melec GmbH, Kiel University, Germany
4:00pm	MB1-WeA-7 High-Entropy Oxide Thin Film as Absorber Layer for Near Infrared Photodetectors, Shao-Chun Chao (Student) , <i>Tai-An Chen</i> , <i>Jyh-Ming Ting</i> , National Cheng Kung University (NCKU), Taiwan	PP2-2-WeA-7 Towards Ti-Si-C MAX-based coatings via reactive cathodic arc evaporation: Advanced Characterization and Process Optimization, Arno Gitschthaler , <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	MB1-WeA-8 Effective Ways to Enhance the Performance of N-MoS ₂ /P-Cuo Heterojunction Based Self-Powered Photodetectors, Davinder Kaur , Indian Institute of Technology Roorkee, India	PP2-2-WeA-8 Influence of Pulse Duration on Plasma Chemistry and Thin Film Growth of Plasmonic Titanium Nitride Deposited by Constant Current Regulated HIPIMS, Ethan Muir (Student) , <i>Arutiun 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	MB1-WeA-9 Influence of SHI irradiation on the Photoluminescence and Dielectric properties of bilayer structured Au/GeO ₂ thin films for Optoelectronics applications, Mahendra Singh Rathore , <i>Anand Y. Joshi</i> , Parul University, India; <i>Srinivasa Rao N.</i> , MNIT Jaipur, India	PP2-2-WeA-9 Monitoring Vanadium Nitride Thin Film Deposited by Reactive Hipims: From Microstructure to Properties, Julien Neyrat , <i>Marjorie Cavarroc</i> , Safran, France; <i>Angeline Poulon</i> , CNRS, Université de Bordeaux - ICMCB, France
5:00pm	MB1-WeA-10 Diffusion of Ni Within Polycrystalline Zinc Oxide Layer: An Approach Combining Different Techniques for a Nanoscale Analytical Response, Hervé Montigaud , SVI, Joint Unit CNRS/ Saint Gobain, 41 quai Lucien Lefranc, Aubervilliers, France; <i>Justine Voronkoff</i> , Saint Gobain Research Paris, 41 quai Lucien Lefranc, Aubervilliers, France; <i>Ludovic Largeau</i> , C2N-CNRS/Université Paris-Saclay, France; <i>Jacques Perrin - Toinin</i> , RWTH Aachen University, Germany; <i>Thierry Cretin</i> , Saint Gobain Research Paris, 41 quai Lucien Lefranc, Aubervilliers, France; <i>Ekaterina Burov</i> , SVI Joint Unit CNRS / Saint Gobain Aubervilliers, France	PP2-2-WeA-10 Energy Contributions in the Reactive Sputter Deposition of TiO ₂ Thin Films, Daniel Fernandes (Student) , <i>Lars Österlund</i> , <i>Tomas Kubart</i> , Uppsala University, Angstrom Laboratory, Sweden
5:20pm	MB1-WeA-11 Fabrication of High Quality Titanium Nitride Nanostructures for Plasmonics, Spyros Kassavetis , <i>Stavros Panos</i> , <i>Nikos Pliatsikas</i> , <i>Despina Tselekidou</i> , <i>Panos Patsalas</i> , Aristotle University of Thessaloniki, Greece	PP2-2-WeA-11 Effects of the Ion Energy Level on the Electrophysical LaB ₆ Thin Films Properties Deposited by HIPIMS, Cesar D. Rivera Tello , <i>Jonatan Pérez Álvarez</i> , <i>Martin Flores</i> , <i>Erika Roxana Larios Durán</i> , Universidad de Guadalajara, Mexico; <i>Eric Serrato Sepulveda</i> , Universidad de Guadalajara, Monaco; <i>Jose Guadalupe Quiñonez Galván</i> , Universidad de Guadalajara, Mexico

Wednesday Afternoon, May 14, 2025

Plasma and Vapor Deposition Processes Room Palm 3-4 - Session PP3-WeA ALD, CVD Coating Technologies Moderators: Hiroki Kondo , Kyushu University, Japan, Frederic Mercier , University of Grenoble Alpes, France		Protective and High-temperature Coatings Room Town & Country D - Session MA4-3-WeA High Entropy and Other Multi-principal-element Materials III Moderators: Jean-François Pierson , IJL - Université de Lorraine, France, Pavel Soucek , Masaryk University, Czechia	
2:00pm	INVITED: PP3-WeA-1 Electrical Conductivity as a New Parameter for SAMs-Free Area-Selective Atomic Layer Deposition, from Principles to Photoconversion Devices, David Horwat , Institut Jean Lamour/Université de Lorraine, France	MA4-3-WeA-1 Few-Layered Multi-Transition Metal Chalcogenide Heterostructured Alloy Absorber for High-Performance Photodetector, Chia-Ying Su , National Cheng Kung University, Taiwan; I-Hsi Chen, Jyh-Ming Ting , National Cheng Kung University (NCKU), Taiwan	
2:20pm		MA4-3-WeA-2 Sputter Deposition of Ta-W-Au-Bi High Entropy Alloys for Inertial Confinement Fusion Hohlraums, Daniel Goodelman , Lawrence Livermore National Laboratory, USA; Nikhil Vishnoi, Gregory Taylor, Eunjeong Kim, Alison Engwall-Holmes, Swanee Shin, David Strozzi, Brandon Bocklund, Scott Peters, Sergei Kucheyev, Leonardus Bimo Bayu Aji , Lawrence Livermore Laboratory, USA	
2:40pm	PP3-WeA-3 Direct ALD Deposition by μ DALP™. Precision Coatings for Next Gen Devices, Mira Baraket , ATLANT 3D Nanosystems, Denmark	MA4-3-WeA-3 ADREnALIne : Accelerated Design of Revolutionary Entropy-Augmented, Lasting and Innovative NitridEs – First Results on Oxidation Resistance of Binary and Ternary Nitrides, Ludovic Méreaux , IRCER, France; Edern Menou, Thomas Vaubois , SAFRAN, France; Cédric Jaoul , IRCER, France; Marjorie Cavarroc , SAFRAN, France	
3:00pm	INVITED: PP3-WeA-4 Selective Generation of Nanoparticles in Plasma-Enhanced CVD and Deposition of Carbon Films with Low Compressive Stress, Kazunori Koga , Kyushu University, Japan	MA4-3-WeA-4 Effect of Substrate Bias on Structural and Mechanical Properties of (MoNbTaW)N Coatings Deposited by Reactive DC Magnetron Sputtering, Saikumar Katta (Student) , University of Hyderabad, India	
3:20pm		MA4-3-WeA-5 Effect of Substrate Bias Voltage on Microstructure and Mechanical Behaviour of Equimolar VCrCoNi Alloy Thin-films Deposited via Unbalanced Magnetron Sputtering, Razie Hanafi (Student) , UNSW, Australia; Yujie Chen , University of Adelaide, Australia; Zhifeng Zhou , City University of Hong Kong; Zonghan Xie , University of Adelaide, Australia; Paul Munroe , UNSW, Australia	
3:40pm	PP3-WeA-6 Temperature Influence on the Chemical Vapor Deposition of Nitrogen-Doped SiC Polycrystalline Films for Brain-Implantable Devices, Michalis Gavalas , SIMaP, CNRS, University Grenoble Alpes, France; Konstantinos Zekentes , Microelectronics Group/IESL-FORTH, University of Crete, Hellas, Greece; Frederic Mercier , SIMaP, CNRS, University Grenoble Alpes, France	MA4-3-WeA-6 Microstructure, Mechanical and Corrosion Properties of Reactively Sputtered (TiVCrZrNbMo)N High-Entropy Nitride Coatings, Žan Gostenčnik (Student) , Aljaž Drnovšek, Matjaž Panjan, Matej Drobnič, Miha Čekada , Jožef Stefan Institute, Slovenia	
4:00pm		MA4-3-WeA-7 High-Entropy Spinel Oxide Nanoparticles Achieve Record Low Thermal Conductivity and Diffusivity at High Temperatures , Yu Pei , University of California at San Diego, USA; Renkun Chen, Ka Man Chuang, Sarath Adapa , University of California San Diego, USA	
4:20pm		MA4-3-WeA-8 Corrosion behavior of Fe-based metallic glass coatings synthesized by plasma spraying, Md Akif Faridi (Student) , Indian Institute of Technology Kharagpur, India	

Wednesday Afternoon, May 14, 2025

Topical Symposium on Sustainable Surface Engineering Room Palm 5-6 - Session TS2-WeA (Photo)electrocatalysis and Solar/Thermal Conversion Moderators: Atasi Dan, National Institute of Standards and Technology (NIST), USA, Arnaud Le Febvrier, Uppsala University, Sweden, Carlos Tavares, University of Minho, Portugal		Tribology and Mechanics of Coatings and Surfaces Room Town & Country C - Session MC3-2-WeA Tribology of Coatings and Surfaces for Industrial Applications II Moderators: Osman Levent Eryilmaz, Oak Ridge National Laboratory, USA, Giovanni Ramirez, Zeiss Industrial Quality Solutions, USA	
2:00pm	INVITED: TS2-WeA-1 Flexible Thermoelectrics: Transforming Wearables, Space Exploration, and IoT, André Pereira , University of Porto, Portugal	MC3-2-WeA-1 Effect of Electrical Current Application on the Tribological Properties of Soft and Hard ta-C Coatings on HSS Substrates, Amir Masoud Khodadadi Behtash (Student) , University of Windsor, Canada; Woo-Jin Choi, Jongkuk Kim , Korea Institute of Materials Science, Korea (Democratic People's Republic of); Ahmet T. Alpas , University of Windsor, Canada	
2:20pm		MC3-2-WeA-2 Impact of Electrification on the Tribological Performance of Metal Doped a-C Coatings, Miguel Rubira Danelon (Student) , Newton Kiyoshi Fukumasu, Roberto Martins de Souza, André Paulo Tschiptschin , University of São Paulo, Brazil	
2:40pm	TS2-WeA-3 Alloy/Phosphate Heterostructure as High-Performance Hydrogen Evolution Reaction Electrocatalyst, Yung Hsun Yen (Student) , National Cheng Kung University (NCKU), Taiwan; Thi Xuyen Nguyen , National Cheng Kung University (NCKU), Taiwan; Jyh Ming Ting , National Cheng Kung University (NCKU), Taiwan	MC3-2-WeA-3 Graphene-Related Materials: Bridging Fundamental Tribology and Industrial Applications Across Multifarious Environments, Mingi Choi (Student) , Ji-Woong Jang , Pusan National University, Republic of Korea; Anirudha Sumant , Argonne National Laboratory, USA, India; Ivan Vlasiouk , Oak Ridge National Laboratory, USA, Russian Federation; Jae-Il Kim , Korea Institute of Materials Science, Republic of Korea; Young-Jun Jang , Korea Institute of Material Science, Republic of Korea; Songkil Kim , Pusan National University, Republic of Korea	
3:00pm	TS2-WeA-4 Ni-Co Based Catalysts for the Upcycling of Polyethylene Terephthalate, Ruei Chi Lin (Student) , National Cheng Kung University (NCKU), Taiwan; Thi Xuyen Nguyen , National Cheng Kung University (NCKU), Taiwan; Jyh Ming Ting , National Cheng Kung University (NCKU), Taiwan	MC3-2-WeA-4 Evaluation of the Reduced Bearing Wear Through Plasma Nitriding for Use in Wind Turbines, Arthur Cid de Abreu, Rayane Dantas da Cunha, João Freire de Medeiros Neto, Salete Martins Alves , Federal University of Rio Grande do Norte, Brazil	
3:20pm	TS2-WeA-5 Single Atom Ag Bonding between PF3T nanocluster and TiO ₂ leads the Ultra-stable Visible-Light-Driven Photocatalytic H ₂ Production, Tsan-Yao Chen, Fan-Gang Tseng , National Tsing Hua University, Taiwan; Jyh-Pin Chou , National Taiwan University, Taiwan	MC3-2-WeA-5 Plasma Nitriding of Quartz, Stephen Muhl , Instituto de Investigaciones en Materiales, Universidad Nacional Autónoma de México; Julio Cruz, Marco Martinez , instituto de investigaciones en Materiales, Universidad Nacional Autónoma de México	
3:40pm	INVITED: TS2-WeA-6 Transition Metal-Based Electrocatalysts for Sustainable Oxygen Reactions in Green Energy Applications, Emma Björk , Linköping University, IFM, Sweden	MC3-2-WeA-6 Penetrability: A New Parameter for Wear Estimation of Multilayer Coatings, Muhammad Usman , City University of Hong Kong	
4:00pm		MC3-2-WeA-7 Structure and Tribo-Mechanical Properties of Si-Containing Ta-C Thin Films Grown by Cathodic Arc Evaporation, Nelson Filipe Lopes Dias, Julia Urbanczyk , TU Dortmund University, Germany; Domic Stangier, Oerlikon Balzers Coating Germany GmbH , Germany; Jörg Debus, Wolfgang Tillmann , TU Dortmund University, Germany	
4:20pm	TS2-WeA-8 Bi-Based Photocatalysts Obtained by Reactive Sputtering for the CO ₂ Photoreduction – from Thin Films and Composites to Nanoparticles, Angélique Bousquet, Sara Ibrahim, Jean-Michel Andanson, Pierre Bonnet , Institut de Chimie de Clermont-Ferrand, France; Mireille Richard-Plouet , Institut des Matériaux, France; Maryline Le Granvalet , Institut des Matériaux de Nantes, France; Sébastien Roth, Audrey Bonduelle , Institut Français du Pétrole, Energies Nouvelles, France	MC3-2-WeA-8 Recent Advances and Strategies for High-Performance Coatings Deposited by the Advanced Magnetron Sputtering, Yixiang Ou , Beijing Academy of Science and Technology, China	
4:40pm	TS2-WeA-9 Effect of Crystallographic Texture on Dealloying Kinetics and Nanoporous Gold Thin Film Composition, Ezgi Hatipoğlu , Max-Planck Institut für Nachhaltige Materialien, Germany; Ayman A. El-Zoka , Imperial College London, UK; Jochen Schneider , Materials Chemistry, RWTH Aachen, Germany; Baptiste Gault, Aparna Saksena , Max-Planck Institut für Nachhaltige Materialien, Germany	MC3-2-WeA-9 Breaking the Hardness-Toughness Dilemma in Protective Coatings: Controllable Preparation and Mechanism Exploration of Superhard yet Tough Coatings, Haoqi Wang , Beijing Academy of Science and Technology, China	

Wednesday Afternoon, May 14, 2025

Awards Ceremony and Honorary Lecture Room Town & Country A - Session HL-WeHL Bunshah Award Honorary Lecture		
5:45pm	Opening Remarks and Award Presentations	
6:05pm	INVITED: HL-WeHL-2 R.F. Bunshah Award and ICMCTF Lecture Invited Talk: Life with Optical Coatings and ICMCTF: from Design to Manufacture, and the Multifunctional, Multisectoral and Holistic Approaches, <i>Ludvik Martinu</i> ¹ , Polytechnique Montréal, Canada	
6:25pm		

¹ R.F. Bunshah Awardee

Thursday Morning, May 15, 2025

Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Palm 1-2 - Session CM1-1-ThM Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces I Moderators: Barbara Putz, Empa Thun, Switzerland, Aparna Saksena, MPI für Eisenforschung GMBH, Germany		Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Town & Country C - Session CM2-1-ThM Advanced Mechanical Testing of Surfaces, Thin Films, Coatings and Small Volumes I Moderators: Matteo Ghidelli, CNRS, France, David Holec, Montanuniversität Leoben, Austria	
8:00am		INVITED: CM2-1-ThM-1 Nano-Mechanical Characterization and Modeling of Plasticity in Metallic Materials, Takahito Ohmura , Kyushu University/NIMS, Japan	
8:20am			
8:40am	INVITED: CM1-1-ThM-3 Analysis of Deuterium by Atom Probe Tomography (Apt) - D in V Films and Fe/V Multi-Layered Films, Ryota Gemma , Tokai University, Japan; Talaat Al-Kassab, Astrid Pundt , University of Göttingen, Germany	CM2-1-ThM-3 Accelerating Workflows for High-Throughput Nanoindentation, Eric Hintsala, Kevin Schmalbach, Douglas Stauffer , Bruker Nano Surfaces, USA	
9:00am		CM2-1-ThM-4 Understanding the Fracture Behavior, Interface Characteristics of Micro and Nanocrystalline Diamond Laminates Through Flexural Studies, Krishna Sarath Kumar Busi (Student) , Technical University Darmstadt, Germany; Tim Fuggerer , University of Erlangen-Nuremberg, Germany; Sebastian Bruns , Technical University Darmstadt, Germany; Timo Fromm, Stefan M Rosiwal , University of Erlangen-Nuremberg, Germany; Karsten Durst , Technical University Darmstadt, Germany	
9:20am	CM1-1-ThM-5 Monitoring Thin Film Battery Electrodes via in-Situ/in-Operando Ellipsometry, Máté Füredi , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; Jialin Gu, Adam Lovett , University College London, UK; Bálint Fodor, András Marton , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; Stefan Guldin , Technical University of Munich, Germany; Thomas Miller , University College London, UK	CM2-1-ThM-5 Deposition of Hierarchical Ti/Ti ₂ AlC Metal/MAX Multilayered Nanolaminates and Investigating their Mechanical Properties and Deformation Mechanisms, Amruta Vaghela (Student) , Iowa State University, USA; Skye Supakul , Pacific Northwest National Laboratory, USA; Kevin Jacob, Sid Pathak , Iowa State University, USA	
9:40am		CM2-1-ThM-6 Effect of Fe Addition on the Structural, Mechanical and Electrical Properties of (ZrCu) _{1-x} Fe _x Thin Film Metallic Glass, Evgeniy Boltynjuk, Yulia Ivanisenko , KIT, Germany; Marco Ezequiel, Francesco Bignoli, Damien Faurie, Philippe Djemia, Matteo Ghidelli , CNRS, France; Horst Hahn , Oklahoma State University, USA	
10:00am	BREAK	BREAK	
10:20am	CM1-1-ThM-8 RBS Study of PiTi and NiTi Multilayer Thin Film for Hydrogen Generation and Water Splitting, Enos Nemukula , University of Venda, South Africa; Christopher Mtshali , iThemba laboratoty, South Africa; Fhulufhelo Nemangwele , University of Venda, South Africa	INVITED: CM2-1-ThM-8 Mechanical Properties of Thin Films Studied using 4D-STEM, Christoph Gammer , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; Alice Lassnig , Montanuniversität Leoben, Leoben, Austria; Lukas Schretter, Simon Fellner , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; Jürgen Eckert , Montanuniversität Leoben, Leoben, Austria	
10:40am	CM1-1-ThM-9 Exploring the Benefits of Automated, Redox Reactions in XPS Analysis, James Lallo , Thermo Fisher Scientific, UK, USA; Robin Simpson, Paul Mack, Tim Nunney , Thermo Fisher Scientific, UK		
11:00am	CM1-1-ThM-10 Hydrofluoric (HF) Acid Corrosion Study of Corrosion Resistant Alloys Used in Semi-Conductor Etching Process Equipment, Donald Williams, Kayvon Savadkouei, Brian Chung, Brad Drake, Patrick Lowery, Andrey Krayev, Eddy Robinson , Horiba Instruments Inc., USA	CM2-1-ThM-10 Investigating the Interplay between Biaxial Multicracking of Nanometric Thin Films and Their Magnetic Properties: A Nuanced Separation of Magnetoelastic and Magnetostatic Effects, Hatem Ben Mahmoud, Damien Faurie , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; Pierre-Olivier Renault, Pierre Godard , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; Dominique Thiaudière, Philippe Joly, Christian Mocuta , Soleil Synchrotron, France; Eloi Haltz, Noël Girardon-Boulandet, Fatih Zighem , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France	
11:20am	CM1-1-ThM-11 Numerical Ellipsometry: Artificial Intelligence Based Real-Time, in Situ Process Control for Absorbing Metal Films Depositing on Known Transparent Substrates, Frank Urban, David Barton , Florida International University, USA	CM2-1-ThM-11 Cross-Sectional Nanoindentation Mapping of Sputtered Inconel 725 Films, Ikponmwosa Iyinbor (Student) , Mork Family Department of Chemical Engineering and Materials Science, University of Southern California., USA; Jin Wang , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Jülich GmbH., Germany; Ruth Schwaiger , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Juelich GmbH., Germany; Andrea Hodge , Mork Family Department of Chemical Engineering and Materials Science, University of Southern California., USA	
11:40am		CM2-1-ThM-12 Fracture Behaviour of Crystalline Metal/Amorphous Oxide Nanolaminates, Thomas Edwards , NIMS (National Institute for Materials Science), Japan; Hendrik Jansen , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Seiichiro Ii , NIMS (National Institute for Materials Science), Japan; Barbara Putz, Johann Michler , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland	

Thursday Morning, May 15, 2025

Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Town & Country D - Session CM3-1-ThM Accelerated Thin Film Development: High-throughput Synthesis, Automated Characterization and Data Analysis I Moderators: Davi Marcelo Febba, NREL, USA, Sebastian Siol, Empa, Switzerland		Functional Thin Films and Surfaces Room Palm 3-4 - Session MB3-ThM Low-dimensional Materials and Structures Moderators: Tomas Kubart, Uppsala University, Sweden, Vladimir Popok, FOM Technologies, Denmark	
8:00am	CM3-1-ThM-1 Combinatorial Screening of Quaternary Piezoelectric Nitrides, Enabled by HIPIMS, Nathan Rodkey, Jyotish Patidar, Federica Messi, Sebastian Siol , EMPA (Swiss Federal Laboratories for Materials Science and Technology), Switzerland	MB3-ThM-1 A Novel Platform for Topologically Protected Quantum Computation: Massively Parallel Self-Assembled Pentasilicene Nanoribbons, Guy Le Lay , Aix-Marseille University, France	
8:20am	INVITED: CM3-1-ThM-2 High-Throughput Experiments Informed by High-Throughput Theory Reveal Zintl Phosphides as a New Family of High-Performance Semiconductors, Sage Bauers , 15013 Denver West parkway, USA	MB3-ThM-2 Multilayers of Two-Dimensional (2d) Ti2B2CIX, Obtained from Selective Etching of 3DTi2InB2, Rodrigo Ronchi (Student), Johanna Rosen , Linköping University, IFM, Sweden	
8:40am		INVITED: MB3-ThM-3 Conformal Multifunctional Polymeric and Inorganic Aerogel-Like Oxide Thin Films for Optical and Energy Applications by Plasma Technology, Gloria P. Moreno, Triana Czermak, Jose Obrero, Francisco J. Aparicio, Juan Ramón Sánchez-Valencia, Ana Borrás, Angel Barranco , Institute of Materials Science, CSIC, Spain	
9:00am	CM3-1-ThM-4 High-Throughput Nanoindentation Methodology for Combinatorial Thin Film Material Libraries, Andre Bohn (Student) , University Of Southern California, USA; Adie Alwen, Andrea Maria Hodge , University of Southern California, USA		
9:20am	CM3-1-ThM-5 Empowering Manufacturers with Low-Temperature Plasma: A Novel Approach to Real-Time Thin Film Metrology, Peter Rudd , 8000 Edgewater Dr, USA	INVITED: MB3-ThM-5 Cluster-assembled Computers, Paolo Milani , University of Milan, Italy	
9:40am	CM3-1-ThM-6 Streamlining Inorganic Thin-Film Data Management with the High-Throughput Experimental Materials Database (HTEM), Davi Febba, Nicholas Wunder, Hilary Egan, Max Gallant, Andriy Zakutayev , National Renewable Energy Laboratory, USA		
10:00am	BREAK	BREAK	
10:20am	CM3-1-ThM-8 A Python-Based Approach to Sputter Deposition Simulations in Combinatorial Materials Science, Felix Thelen (Student), Rico Zehl, Jan Lukas Bürgel , Ruhr University Bochum, Germany; Diederik Depla , Ghent University, Belgium; Alfred Ludwig , Ruhr University Bochum, Germany	MB3-ThM-8 Analysis and 3D Modelling of Percolated Conductive Networks in Nanoparticle-Based Thin Films, Stanislav Haviar , University of West Bohemia, Czechia; Benedikt Prifling , Ulm University, Germany; Tomáš Kozák, Kalyani Shaji , University of West Bohemia, Czechia; Tereza Košutová , Charles University, Czechia; Šimon Kos , University of West Bohemia, Czechia; Volker Schmidt , Ulm University, Germany; Jiří Čapek , University of West Bohemia, Czechia	
10:40am	INVITED: CM3-1-ThM-9 Discovery and Development of Transition Metal Nitride Semiconductors for Photoelectrochemical Energy Conversion, Ian Sharp , Walter Schottky Institut, Technische Universität München, Germany	MB3-ThM-9 Tailoring of Nanoparticle Deposition Rate and Film Structure Through Substrate Biasing: Enabling Sputtering-Based Synthesis of Novel Catalyst Materials, Dominik Gutnik (Student), Florian Theodor Knabl , Montanuniversität Leoben, Austria; Prathamesh Patil , CEST GmbH, Austria; Christine Bandl , Montanuniversität Leoben, Austria; Tijmen Vermeij, Daniele Casari , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Michael Burtscher, Christian Mitterer , Montanuniversität Leoben, Austria; Christian M Pichler , CEST GmbH, Austria; Barbara Putz , Montanuniversität Leoben, Austria	
11:00am		MB3-ThM-10 Tailoring Microstructure and Composition of Composite CuO/WO ₃ Nanoparticle-Based Thin Films for Enhanced H ₂ Gas Sensing, Kalyani Shaji (Student), Stanislav Haviar, Petr Zeman, Michal Procházka, Radomír Čerstvý, Jiří Čapek , University of West Bohemia - NTIS, Czechia	
11:20am	CM3-1-ThM-11 XRD and STEM Analysis of Structural Variation in Nanocrystalline Cu-Ag Thin Films, Kyle Dorman, Sadvikas Addamane , Sandia National Labs, USA; Mark Rodriguez , Sandia National Labs, USA; Paul Kotula, Alejandro Hinojos, Luis Jauregui, Suzanne Vitale, Catherine Sobczak , Sandia National Labs, USA; Finley Haines , Sandia National Lab, USA; David Adams , Sandia National Labs, USA	MB3-ThM-11 Influence of Pretreatment and Deposition Parameters on Carbon Nanotubes Synthesized Directly on Oxidized Steel Substrates via Pulsed DC PACVD, Manuel C. J. Schachinger, Francisco A. Delfin , University of Applied Sciences Upper Austria; Bernhard Fickl, Bernhard C. Bayer , Vienna University of Technology, Austria; Andreas Karner, Johannes Preiner, Christian Forsich, Daniel Heim , University of Applied Sciences Upper Austria; Bernd Rübiger, Christian Dipolt, Thomas Müller , RÜBIG GmbH & Co KG, Austria	
11:40am		MB3-ThM-12 The Influence of Magnetic Field on the Cluster Growth in a Magnetron Sputtering Gas Aggregation Source, Joao Coroa , Teer Coatings Ltd, UK; Giuseppe Sanzone , Teer Coatings Ltd., UK; Tibor Höltzl , Furukawa Electric Institute of Technology, Hungary; Hailin Sun , Teer Coatings Ltd., UK; Ewald Janssens , KU Leuven, Belgium; Jinlong Yin , Teer Coatings Ltd., UK	
12:00pm		MB3-ThM-13 Tracking the Evolution of Ag Nanoparticle Solutions Upon Atmospheric Exposure Using a Combined Spectroscopic Approach, Héloïse Lasfargues (Student), Lilli Charlotte Freymann, Jochen M. Schneider, Cléo Azina , RWTH Aachen University, Germany	

Thursday Morning, May 15, 2025

Plasma and Vapor Deposition Processes Room Town & Country B - Session PP8-1-ThM Commemorative Session for Papken Hovsepian I Moderators: Arutian P. Ehasarian, Sheffield Hallam University, UK, Philipp Immich, IHI Hauzer Techno Coating B.V., Netherlands		Protective and High-temperature Coatings Room Palm 5-6 - Session MA5-ThM Boron-containing Coatings Moderators: Anna Hirle, TU Wien, Austria, Martin Dahlqvist, Linköping University, Sweden	
8:00am	INVITED: PP8-1-ThM-1 How Industry and Research Are Connected to Accelerate Development, <i>Philipp Immich</i> , IHI Hauzer Techno Coating B.V., Netherlands	INVITED: MA5-ThM-1 Metal Boride Nanocrystal Inks for Applications in Extreme Environments, <i>Loredana Protesescu</i> , RUG, Netherlands	
8:20am			
8:40am	INVITED: PP8-1-ThM-3 Advances in PVD Technology: Metal-Ion Etch of Substrates Using Cathodic Arc and HiPIMS and Nanostructured Protective Coatings, <i>Ivan Petrov</i> , University of Illinois at Urbana-Champaign, USA	MA5-ThM-3 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		MA5-ThM-4 Impact of Thermo-Chemical Treatments on the Wear Performance of DIN 16MnCr5 Steel, <i>Jose Martinez-Trinidad</i> , Instituto politecnico Nacional, Mexico; Roberto Javier Cruz (Student) , Instituto Politecnico Nacional, Mexico; <i>Ricardo Garcia-León</i> , Universidad Francisco de Paula Santander Ocaña, Colombia	
9:20am	INVITED: PP8-1-ThM-5 Research and Innovation in Surface Engineering with Prof. Hovsepian in EU Projects - following Papken's Research Legacy, <i>Francisco Javier Perez Trujillo</i> , Universidad Complutense de Madrid, Spain	MA5-ThM-5 Tuning Properties of Diborides by Transition Metal Alloying Deposited by Combination of Magnetron Sputtering and Cathodic ARC Evaporation, <i>Daniel Karpinski, Andreas Lümekemann, Pavla Karvankova, Christian Krieg</i> , PLATIT AG, Switzerland; <i>Hannes Joost, Heiko Frank</i> , GFE-Schmalkalden e.V., Germany; <i>Pavel Soucek, Petr Vasina</i> , Institute of Physics and Plasma Technology, Masaryk University, Czechia; <i>Fedor Klimashin, 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		MA5-ThM-6 Micromechanical Properties of $Ti_{1-x}Mo_xB_{2+z}$ 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, Rainer Hahn</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; <i>Christian Gutschka, 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, 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	BREAK	BREAK	
10:20am	INVITED: PP8-1-ThM-8 Recent Progress in Coating Materials Design: Thermal Stability vs Chemical Stability, <i>Amir Navidi, Deborah Neuss, Soheil Karimi, 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	MA5-ThM-8 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; Min-Yi Lin (Student) , 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		MA5-ThM-9 TiB ₂ /Hf Superlattices: Exploring Mechanical Strength, Fracture Toughness, and Stress-Strain Behavior, <i>Naureen Ghafoor, Firat Angay, 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, Jens Birch</i> , Linköping University, IFM, Sweden	
11:00am	INVITED: PP8-1-ThM-10 HiPIMS and Magnetron Sputtered Carbon-Based Nanocomposites, <i>Sven Ulrich</i> , Forschungszentrum Karlsruhe, Germany	MA5-ThM-10 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		MA5-ThM-11 Influence of Deposition Parameters on the Microstructure, Mechanical and Anti-Corrosion Characteristics of (Hfvtizrw)B ₂ High Entropy Alloy Boride Thin Films, Jun-Xing Wang (Student) , 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	INVITED: PP8-1-ThM-12 Superlattice Coatings: Unleashing Superior Properties Through Architected Nanolayers, <i>Paul Mayrhofer</i> , TU Wien, Institute of Materials Science and Technology, Austria	MA5-ThM-12 Dos and Don'Ts When Performing Theoretical Predictions for Identification of Stable Metal-Boride Materials (MAN Phases), Martin Dahlqvist , Linköping University, IFM, Materials Design Division, Sweden	
12:00pm		MA5-ThM-13 Comparative Analysis of Oxidation Behavior and Mechanical Properties of Hf _{0.24} Al _{0.06} Bo.70 vs. Hf _{0.35} Bo.65 Thin Films, Eva B. Mayer (Student) , <i>Janani D. Ramesh</i> , RWTH Aachen University, Germany; <i>Zsolt Czigány</i> , Centre for Energy Research, Hungary; <i>Marcus Hans</i> , RWTH Aachen University, Germany; <i>Daniel Primetzhofer</i> , Uppsala University, Sweden; <i>Lukas Löfler, Jochen M. Schneider</i> , RWTH Aachen University, Germany	

Thursday Afternoon, May 15, 2025

	<p>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Palm 1-2 - Session CM1-2-ThA Spatially-resolved and in situ Characterization of Thin Films, Coating and Engineered Surfaces II Moderators: Damien Faurie, Univ. Sorbonne Paris Nord, France, Barbara Putz, Empa Thun, Switzerland, Aparna Saksena, MPI für Eisenforschung GMBH, Germany</p>	<p>Advanced Characterization, Modelling and Data Science for Coatings and Thin Films Room Town & Country C - Session CM2-2-ThA Advanced Mechanical Testing of Surfaces, Thin Films, Coatings and Small Volumes II Moderators: Thomas Edwards, NIMS, Japan, Matteo Ghidelli, CNRS, France</p>
1:20pm	<p>INVITED: CM1-2-ThA-1 Crystalline-Amorphous Interface Fracture Explored Across Different Length Scales, Alice Lassnig, Montanuniversitat Leoben, Austria; Michael Meindlhuber, Montanuniversität Leoben, Austria; Stanislav Zak, Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; Megan Cordill, Christoph Gammer, Austrian Academy of Sciences, Austria; Andrew Minor, Lawrence Berkeley Lab, USA</p>	<p>CM2-2-ThA-1 Influence of Applied Deformation on Magnetic Properties of Ferromagnetic Ni₆₀Fe₄₀ Thin Films Deposited on Polymeric Substrate, Alejandro Toledano Povedano (Student), Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; Dominique Thiaudière, Synchrotron SOLEIL, France; Pierre Godard, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; Eloi Haltz, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; Damien Faurie, Fatih Zighem, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; Anny Michel, Pierre-Olivier Renault, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France</p>
1:40pm		<p>INVITED: CM2-2-ThA-2 The Local Electrical Fingerprint of Deformation and Growth -Induced Defects in Alloys, Hanna Bishara, Tel Aviv University, Israel</p>
2:00pm	<p>CM1-2-ThA-3 Tailoring Structure and Mechanical Properties of TiZrHfTa Refractory Alloy Thin Films, Gregory Abadías, Hocine Slimani, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; Pietro Vecchietti, Politecnico Milano, Italy; Meriadeg Chalopin, Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; Ferenc Tasnádi, Linköping University, IFM, Sweden; Matteo Ghidelli, Philippe Djemia, Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France</p>	
2:20pm	<p>INVITED: CM1-2-ThA-4 Exploring Mechanical Properties of Thin Films Through Synchrotron X-Ray Diffraction, Digital Image Correlation and Electrical Resistivity Measurements, Pierre-Olivier Renault, University of Poitiers, France</p>	<p>CM2-2-ThA-4 On the Effect of Thin Film Residual Stress on the Crack Propagation Resistance of ALD Coated Nano-Ceramics, Edoardo Rossi, Università degli studi Roma tre, Dipartimento di ingegneria Civile, Informatica e delle Tecnologie Aeronautiche., Italy; Marco Sebastiani, Università degli studi Roma Tre, Dipartimento di Ingegneria Civile, Informatica e delle Tecnologie Aeronautiche, Italy</p>
2:40pm		<p>INVITED: CM2-2-ThA-5 Micromechanical Testing of Ceramic Coatings for Nuclear Applications up to 1000°C, Dong (Lilly) Liu, University of Oxford, UK</p>
3:00pm	<p>CM1-2-ThA-6 A Combined X-ray Microdiffraction and Micromechanical Testing Approach for Direct Measurement of Thin Film Elastic Constants, Rainer Hahn, CDL-SEC, TU Wien, Austria; Rebecca Janknecht, Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; Nikola Koutná, Institute of Materials Science and Technology, TU Wien, Austria; Anna Hirle, CDL-SEC, TU Wien, Austria; Anton Davydok, Helmholtz-Zentrum Hereon, Germany; Klaus Boebel, Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; Szilárd Kolozsvári, Peter Polcik, Plansee Composite Materials GmbH, Germany; Christina Krywka, Helmholtz-Zentrum Hereon, Germany; Paul H. Mayrhofer, Institute of Materials Science and Technology, TU Wien, Austria; Helmut Riedl, CDL-SEC, TU Wien, Austria</p>	
3:20pm	<p>CM1-2-ThA-7 Real-Time Particle Detection for Enhanced Coating Deposition Processes, Constant Boris Rieille, Sylvain LeCoultre, Berner Fachhochschule BFH, Switzerland</p>	
3:40pm	BREAK	BREAK
4:00pm	<p>INVITED: CM1-2-ThA-9 Real-Time Monitoring of Sputter Deposition Process: Application in the Context of Ag-Based Low-Emissive Coatings, Rémi Lazzari, CNRS/Sorbonne Université, France</p>	
4:20pm		
4:40pm	<p>CM1-2-ThA-11 A Combination of Real-Time Diagnostics Probing the Impact of N₂ on Ag Thin Film Growth, Michal Kaminski, KIT, Germany; Gregory Abadías, David Babonneau, Institut Pprime, France; Alessandro Coati, Yves Garreau, Synchrotron SOLEIL, France; Anny Michel, Institut Pprime, France; Anton Plech, KIT, Germany; Andrea Resta, Synchrotron SOLEIL, France; Karan Solanki, Institut Pprime, France; Alina Vlad, Synchrotron SOLEIL, France; Baerbel Krause, KIT, Germany</p>	

Thursday Afternoon, May 15, 2025

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

Thursday Afternoon, May 15, 2025

Tribology and Mechanics of Coatings and Surfaces Room Palm 3-4 - Session MC1-1-ThA Friction, Wear, Lubrication Effects, & Modeling I Moderator: Michael Chandross, Sandia National Laboratories, USA	
1:20pm	INVITED: MC1-1-ThA-1 Solid Lubrication in Thin Films: Mechanisms, Materials, and Performance, <i>Daniel Pözlberger</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	MC1-1-ThA-3 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; Vincent Fridrici , Ecole Centrale de Lyon - LTDS, France
2:20pm	MC1-1-ThA-4 Beyond Graphene: A ML-Assisted High-Throughput Molecular Dynamics Framework for Screening 2D Materials for Tribological Applications, Matteo Valderrama (Student) , <i>Daniele Dini, James Ewen</i> , Imperial College London, UK; <i>Nicolas Fillot</i> , INSA de Lyon, France
2:40pm	MC1-1-ThA-5 Nanoscale Wear of Metallic Multilayers - the Effect of Interface, Tomas Polcar , <i>Ahmed AlMotasem</i> , Czech Technical University in Prague, Czech Republic
3:00pm	MC1-1-ThA-6 Electrification of Ti:MoS ₂ Coatings for Tribological Applications, Newton K. Fukumasu , 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	MC1-1-ThA-7 Wear Protection and Corrosion Resistance of Dlc Top-Layered Coatings with Nano-Multilayer Interlayer Structure, Adrián Claver , Institute for Advanced Materials and Mathematics (INAMAT2), Universidad Pública de Navarra (UPNA), Spain; <i>Iván Fernández</i> , Nano4Energy, Spain; <i>Pierre Collignon</i> , Pd2i, France; <i>Pablo Díaz-Rodríguez</i> , Nano4energy, Spain
3:40pm	BREAK

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 Nunnery*, 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 Sjol*, 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 γ -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

CM-ThP-14 Thickness Quantification of Coatings as Part of the Rietveld Analysis of X-Ray Diffraction Data, *Thomas Degen*, *Detlef Beckers*, *Mustapha Sadki*, *Nicholas Norberg*, Malvern Panalytical B.V., Netherlands; *Namsoo Shin*, Deep Solution Inc., Korea (Democratic People's Republic of)

CM-ThP-15 Ethylene Glycol Mediated Electrodeposition and Characterization of Nanostructured Earth-Abundant Zn-Cu_xO Heterostructure on FTO Substrate, *Abu Bakar Md. Ismail*, University of Rajshahi, Bangladesh

CM-ThP-16 Research on Physical Properties of Organic-Inorganic Composite Layers for Applications in Renewable Energy Sources (RES), *Pawel Jarka*, *Weronika Smok*, *Tomasz Tarński*, Silesian University of Technology, Poland; *Barbara Hajduk*, Centre of Polymer and Carbon Materials, Polish Academy of Sciences, Poland

CM-ThP-17 Finding Optimal Catalysts for Methane Pyrolysis: DFT and AIMD Modelling and Simulation, *Martin Matas*, *David Holec*, Montanuniversität Leoben, Austria

CM-ThP-18 Transverse and Longitudinal Elastic Characterization of Thin-Films Using Picosecond Acoustics, *Asma Chargui*, CNRS-IEMN, France; *Nicolas Martin*, IEMN-FEMTO, France; *Gabriel Ferro*, Université de Lyon, France; *Arnaud DEVOS*, CNRS-IEMN, France

CM-ThP-19 Growth of Evaporated Ni Films on Gaas (001) and Si(111) Substrate, *Intissar Djouada*, Laboratory of Fundamental and Applied Sciences (LSFA), Algeria

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 TiO₂ 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 CsPbI₃ 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 Mo₂C Bridging in 2D MoS₂ 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 Ag Agglomeration, *Jaehyung Park (Student)*, *Kangsuk Yun*, *Jaehwi Choi*, *Jiwan Kim*, Kyonggi University, Republic of Korea

MB-ThP-6 Impact of Chlorine Incorporated a-IGZO TFTs, *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 WSe₂, *Akshay Tomar*, *Somdatta Singh*, *Ananya Bansal*, *Prachi Gurawal*, *Ramesh Chandra*, IIT Roorkee, India

MB-ThP-8 Highly efficient of QLEDs Using SnO₂ 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 Y₂O₃ 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 Al₂O₃ 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 Hajjas*, 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 CrYN 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 EFEGLU*, 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 SiO₂/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_x, **Esteban Osorio (Student)**, Autonomous University of Baja California, Mexico; David Mateos-Anzaldo, Mario Curriel-Alvarez, 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

MB-ThP-21 Fabrication and Properties of Zinc Oxide Thin Film Prepared by Thermal Evaporation Method, **Bassel Abdel Samad, Zackaria Kabore**, Université de Moncton, Canada

MB-ThP-22 High-Performance Methyl Mercaptan Gas Sensor based on Tellurene Nanowires for Breath Analysis Application, **Yeonjin Je (Student)**, Sang-Soo Chee, Korea Institute of Ceramic Engineering & Technology, Republic of Korea

MB-ThP-23 Enhanced Electrochemical Performance and Stability of Zinc-Ion Batteries Using Tellurium Nanowires, **Hyun Tae Kim (Student)**, Korea Institute of Ceramic Engineering and Technology (KICET), Republic of Korea; Gyeong Hee Ryu, Gyeongsang National University, Republic of Korea; Sang-Soo Chee, Korea Institute of Ceramic Engineering and Technology (KICET), Republic of Korea

MB-ThP-24 Development of Functional Insulation and Wear Protection Layers for Coating Sensors, **Martin Welters, Rainer Cremer**, KCS Europe GmbH, Germany

MB-ThP-25 Sub-10nm Superlattice HZO on CMP-Planarized Metal Surfaces Achieving High Remanent Polarization and Endurance, **Zefu Zhao, Dun-Bao Ruan**, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China; **Qian Cheng Yang**, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, Fuzhou University, China; **Kai-Jih Gan**, FZU-Jinjiang Joint Institute of Microelectronics, College of Physics and Information Engineering, School of Advanced Manufacturing, Fuzhou University, China; **Kuei-Shu Chang-Liao**, Department of Engineering and System Science, National Tsing Hua University, Taiwan

MB-ThP-26 The duality of Thermal and Magnetic Properties of Ni-Ta Thin Films: A New Generation of Sensing Devices, **Armando Ferreira, Filipe Vaz, Cláudia Lopes**, University of Minho, Portugal

MB-ThP-27 Electrical and Physical Properties of Dual-Active Channel TFTs Composed of Controlled Hf Doped InGaSnO Layer and an InGaSnO-Only Layer, **Seungjin Kim, Byoungdeog Choi**, Sungkyunkwan University (SKKU), Republic of Korea

MB-ThP-28 3D Structured Local Thin Film Deposition by Direct Atomic Layer Deposition (DALP™), **Mira Baraket**, ATLANT 3D Nanosystems, Denmark

MB-ThP-29 Effect of Amino Ligands of Aminosilane Precursors in Low-Temperature Silicon Nitride Plasma-Enhanced Atomic Layer Deposition (PEALD) for Moisture Barrier Films, **Hyeonjin Choi (Student)**, Jinmyeong Kim, Youngju Ko, Heeyeop Chae, Sungkyunkwan University (SKKU), Republic of Korea

MB-ThP-30 Morphology Sustainable Synthesis of Calcium Phosphate 1d Nanostructures via Electrospinning for Advanced Functional Applications, **Yao Mawuena Tsekpo, Weronika Smok**, Department of Engineering Materials and Biomaterials, Faculty of Mechanical Engineering, Silesian University of Technology, Poland; **Adrian Radoń**, Łukasiewicz Research Network- Institute of Non-Ferrous Metals, Poland; **Pawet Jarka, Tomasz Tanski**, Department of Engineering Materials and Biomaterials, Faculty of Mechanical Engineering, Silesian University of Technology, Poland

MB-ThP-31 Investigation of Optical Constants in Nanostructured MoS₂, ws₂, and MoS₂-WS₂ Thin Films by Spectroscopy Ellipsometry, **Prachi Gurawal (Student)**, Indian Institute of Technology Roorkee, India

MB-ThP-32 Optical and Protective Coatings Synthesized by Magnetron Sputtering, **Eric Aubry, Pascal Briois**, FEMTO-ST, France

MB-ThP-33 Influence of Substrate Temperature on the Structural and Mechanical Properties of Ti-Zr Oxynitride Thin Films, **Rogelio Ospina (Student)**, Sergio Andres Rincon, Jorge Hernan Quintero, Universidad Industrial de Santander, Colombia

MB-ThP-34 Functionalization of SnO₂ Electron Transport Layer with Phosphonic Acid Derivative for Enhanced Perovskite Solar Cell Performance, **Biplav Dahal, Akhil Prio Chakma, Hongmei Dang**, University of the District of Columbia, USA

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, CILKOA, 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 Curriel-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

PP-ThP-8 Enhancement of Barrier Properties of Aluminum Oxide Layer by Optimization of Plasma-Enhanced Atomic Layer Deposition Process, **Hyun Gi Kim**, KyungHee University, Republic of Korea

PP-ThP-9 Development of DC Magnetron Sputtered Ni-Fe Bimetallic Thin Film Anodes for Oer in Water Electrolysis for Hydrogen Production and Optimization of Composition for Ni-Fe Bimetallic System, **Daniyal Hasan, Sandra Carvalho, Albano Cavaleiro, Diogo Cavaleiro**, University of Coimbra, Portugal

PP-ThP-10 Exploring Green Alternatives for Plasma Etching of Silicon Carbide , **Chang-Koo Kim, Sanghyun You**, Ajou University, Republic of Korea

PP-ThP-11 Optical Emission Spectroscopy Signal Analysis for Predicting Deposition Characteristics of Silicon Nitride in Plasma Enhanced Chemical Vapor Deposition, **Youngju Ko (Student)**, Hyeonjin Choi, Jinmyeong Kim, Namgun Kim, Heeyeop Chae, Sungkyunkwan University (SKKU), Republic of Korea

PP-ThP-12 Surface Engineering for the Interface between p-Type Germanium and Alloy-Like Hafnium Nitride Buffer Layer with Pre-Hydrogen Plasma Trimming, **Bo-Syun Syu (Student)**, National Tsing Hua University, Taiwan; **Dun-Bao Ruan**, Fuzhou University, China; **Kuei-Shu Chang-Liao, Hsin-I Yeh**, National Tsing Hua University, Taiwan

PP-ThP-13 Chamber Design and Capabilities for Nanocalorimetry-Based Plasma Diagnostics, **Carles Corbella**, National Institute of Standards and Technology (NIST)/ University of Maryland, College Park, USA; **Feng Yi, Andrei Kolmakov**, National Institute of Standards and Technology (NIST), USA

PP-ThP-14 Interface Engineering and Electronic Transport Mechanism for Amorphous Oxide Semiconductor PN Junctions with Stacking Tellurium Based P-type and Indium Based N-type Material, **Zhibo Zeng (Student)**, Fuzhou University, China; *Bo-Syun Syu*, National Tsing Hua University, Taiwan; *Kai-Jih Gan*, Fuzhou University, China; *Kuei-Shu Chang-Liao*, National Tsing Hua University, China; *Jialong Xiang*, *Dun-Bao Ruan*, Fuzhou University, China

PP-ThP-15 Magnetron Sputter Deposition of Corrosion Resistant Thin Films on Al Surfaces, **Tomas Kubart**, *Yao Yao*, Uppsala University, Solid State Electronics, Sweden; *Karin Törne*, *Smita Rao*, *Hannes Nedersted*, *Live Mölmen*, *Anders Lundblad*, RISE Research Institutes of Sweden

PP-ThP-16 Mechanical Properties and Tool-life Evaluation of Nitride Coatings Applied by Arc Ion Plating, **Young-Seok Kim**, *Yong Jung*, APIS Co., Ltd., Republic of Korea; *Yeon-Cheol Shin*, APIS CO., Ltd., Republic of Korea; *Hye-Jin Park*, Sejong University, Republic of Korea

PP-ThP-17 Development of TiAlN+X Coatings for Inconel Machining by Advanced ARC Technology, **Shinichi Tanifuji**, *Ryosuke Takei*, *S. Hirota*, Kobe Steel Ltd., Japan; *M. Tona*, *N. Hirata*, Ayabo, Ltd., Japan

PP-ThP-18 Characteristics of TiAlN+X Coatings for Inconel Machining using Advanced Arc Technology, **Ryosuke Takei**, *Shinichi Tanifuji*, *S. Hirota*, Kobe Steel Ltd., Japan; *M. Tona*, *N. Hirata*, Ayabo, Ltd., Japan

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 Kolozsvári*, 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)_Nx Thin Films, **Miguel Piñeira**, 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

MA-ThP-6 Microstructure Evolution and Oxidation Behavior of Diffusion Pt-γ/γ' and Pt-aluminide Coatings at 1200 °C, **Radoslaw Swadzba**, *Agnieszka Sasiela*, Lukasiewicz Research Network - Uppersilesian Institute of Technology, Poland; *Boguslaw Mendala*, *Lucjan Swadzba*, Silesian University of Technology, Poland; *Lukasz Pyclik*, *Michal Gut*, Avio Polska sp. z o. o., Poland

MA-ThP-7 Unprecedented B Solubility in Cubic (Hf,Ta,Ti,V,Zr)B-C-N Coatings, *Andreas Kretschmer*, TU Wien, Austria; *Marcus Hans*, *Jochen Schneider*, RWTH Aachen University, Germany; **Paul Mayrhofer**, TU Wien, Institute of Materials Science and Technology, Austria

MA-ThP-8 Ab Initio Assessed Influence of Si on the Structural Integrity of Group IV Transition Metal Diborides, *Christian Gutschka*, *Lukas Zauner*, *Thomas Glechner*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria; *David Holec*, Department of Materials Science, Montanuniversität Leoben, Austria; **Helmut Riedl**, Institute of Materials Science and Technology, TU Wien, Austria

MA-ThP-9 Fabrication and High-Temperature Test of Light-Weight Insulation Materials and Coatings for Reusable Thermal Protection Materials, **Seongwon Kim**, Korea Institute of Ceramic Engineering and Technology, Republic of Korea

MA-ThP-10 Development of Multilayer Nano Nitride Layer for Corrosion and Wear Resistance by Using Magnetron Sputtering Technique, **Aakanksha Jain**, India Institute of Technology Roorkee, India; *Ramesh Chandra*, India Institute of Technology Roorkee, India; *Rahul S. Mulik*, India Institute of Technology Roorkee, India

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

IA-ThP-3 Suppression of Ionizing Radiation-Induced Degradation in Gate-All-Around Field Effect Transistor by Structural Surface Engineering, **Kuei-Shu Chang-Liao**, National Tsing Hua University, Taiwan; *Dun-Bao Ruan*, Fuzhou University, China; *Shang-Hua Hsu*, National Tsing Hua University, Taiwan

IA-ThP-4 Investigating the Impact of Rapid Thermal Annealing on the Interface between Sputtered Tellurium Capping Layer and Tin Monoxide Thin Films, **Kai-Jih Gan**, *Jialong Xiang*, Fuzhou University, China; *Bo-Syun Syu*, National Tsing Hua University, Taiwan; *Dun-Bao Ruan*, Fuzhou University, China; *Kuei-Shu Chang-Liao*, National Tsing Hua University, Taiwan

IA-ThP-5 Surface Engineering Induced Improved Resistive Switching Characteristics of Wide Bandgap Amorphous Oxide Semiconductor Thin Films with Plasma Enhanced Rapid Thermal Annealing, **Jialong Xiang (Student)**, *Dun-Bao Ruan*, *Kai-Jih Gan*, Fuzhou University, China; *Bo-Syun Syu*, *Kuei-Shu Chang-Liao*, National Tsing Hua University, Taiwan; *Qiancheng Yang*, Fuzhou University, China

IA-ThP-6 PVD Coatings for High Temperature Applications in Turbines, **Markus Esselbach**, Oerlikon Balzer, Liechtenstein

IA-ThP-7 Greybox Models for Wear and Service Life Predictions of Coated Cutting Tools, *Kirsten Bobzin*, **Christian Kalscheuer**, *Muhammad Tayyab*, Surface Engineering Institute - RWTH Aachen University, Germany

IA-ThP-8 Comparative Study of Nanometric Interface layers (NiCr, Ti) used in Stacks of Low-Emissivity Glazing, **Hervé Montigaud**, SVI joint Unit CNRS/ Saint Gobain, 41 quai Lucien Lefranc, Aubervilliers, France; *Justine Voronkoff*, Saint Gobain Research Paris, 41 quai Lucien Lefranc, Aubervilliers, France; *Ekaterina Chernysheva*, SVI joint unit CNRS/Saint Gobain Aubervilliers, France; *Rémi Lazzari*, Institut des NanoSciences de Paris, CNRS/Sorbonne Université, Paris, France, France; *Ludovic Largeau*, Centre de Nanosciences et de Nanotechnologies, CNRS/U. Paris-Saclay, Palaiseau France; *Denis Guimard*, *Xavier Caillet*, Saint-Gobain Research Paris, 41 quai Lucien Lefranc, F-93303 Aubervilliers, France

IA-ThP-9 PVD Duplex Treatment of AISI M2 high speed steel additively manufactured by metal binder jetting, **Julia Urbanczyk**, *Nelson Filipe Lopes Dias*, *Tim Schäfer*, TU Dortmund University, Germany; *Patrick Köhnen*, *Simon Höges*, GKN Powder Metallurgy, Germany; *Wolfgang Tillmann*, TU Dortmund University, Germany; *Dominic Stangier*, Oerlikon Balzers Coating Germany GmbH, Germany

IA-ThP-10 Electrolytic Plasma Polishing of Ti 6Al-4V in Aqueous and Deep Eutectic Solvents, **Nicolas Laugel**, *Aleksey Yerokhin*, *Allan Matthews*, The University of Manchester, UK

IA-ThP-11 Microstructure and Properties of Oxide Coatings Produced on Aluminum Tape, **Aleksander Iwaniak**, *Andrzej Posmyk*, *Adrian Krysiak*, Silesian University of Technology, Poland

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 $Ti_3C_2T_x$ MXene Nanosheets, **Sanjeev Kumar**, **Jyoti Jaiswal**, **Rajesh Chakrabraty**, **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

MD-ThP-5 Antibacterial Coating of Additively Manufactured Biodegradable Implants, **Jan-Ole Achenbach**, **Rainer Cremer**, KCS Europe GmbH, Germany

MD-ThP-6 Copper-Based Biocidal Thin Film Characterised by X-Ray Photoelectron Spectroscopy, **Jonathan Counsell**, Kratos Analytical Limited, UK; **David Surman**, Kratos Analytical Inc., USA; **Heather Yates**, University of Salford, UK

MD-ThP-7 In vitro Comparative Study of Composite Coatings for Magnesium-based Bone Implants, **Merna Abdrabbo (Student)**, **Abdelrahman Amin**, University of Tennessee at Chattanooga, USA; **Bryce Williams**, **Thomas McGehee**, **Alyssandra Navarro**, University of Arkansas, USA; **Vipul Patil**, University of Tennessee at Chattanooga, USA; **Mostafa Elsaadany**, University of Arkansas, USA; **Hamdy Ibrahim**, University of Tennessee at Chattanooga, USA

MD-ThP-8 Microfluidic Engineered Surface Modified Liposomes Encapsulating Mitochondria for Enhanced Cellular Uptake and Bioavailability in Cell Therapy, **Yen-Chin Hsu (Student)**, **Yu-Jui Fan**, Taipei Medical University, Taiwan

MD-ThP-9 Forecasting the Degradation rate of in Vitro Ceramic Coated Magnesium Substrate based on a Machine Learning Approach, **Abdelrahman Amin (Student)**, **Hamdy Ibrahim**, University of Tennessee at Chattanooga, USA; **Ibrahim Emad**, Predictive Simulations & Modeling, USA

MD-ThP-10 Growth Mechanism and Cellular Response to Film Thickness Variations of Nanoporous Alkaline Titanate-Converted, Magnetron Sputtered Ti Thin Films, **Matthew Wadge**, Manchester Metropolitan University, UK; **Jonathan Wilson**, University of Nottingham, UK; **Kozim Midkhatov**, **Mahetab Amer**, University of Manchester, UK; **Louise Briggs**, **Timothy Cooper**, **Zakhar Kudrynskiy**, University of Nottingham, UK; **Reda Felfel**, University of Strathclyde, UK; **Ifty Ahmed**, **Colin Scotchford**, **David Grant**, University of Nottingham, UK; **Justyna Kulczyk-Malecka**, **Peter Kelly**, Manchester Metropolitan University, UK

MD-ThP-11 Corrosion Stability and Electrical Performance of Ti-Au Thin Film Electrodes for Biosignal Acquisition, **Sara Inácio**, **Carolina Durães**, **Ana Camarinha**, **Armando Ferreira**, **Cláudia Lopes**, **Filipe Vaz**, University of Minho, Portugal

MD-ThP-12 The Influence of Electrospun PLA/ZnO Coating on the Corrosion Resistance of Biomedical Ti-6Al-4V Alloy, **Weronika Smok**, Silesian University of Technology, Poland

MD-ThP-13 Surface Modification of AISI 316L Steel by Anodic Oxidation and Its Effect on the Viability of HFOb Cells, **Luz Alejandra Linares Duarte (Student)**, **Enrique Hernández Sánchez**, **Cintia Proa Coronado**, **Ángel Ernesto Bañuelos Hernández**, **Nury Pérez Hernández**, Instituto Politécnico Nacional, Mexico; **Raúl Tadeo Rosas**, Universidad Autónoma de Coahuila, Unidad Torreón, Mexico; **Yesenia Sánchez Fuentes**, Instituto Politécnico Nacional, Mexico

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_2O_5 -Based Flexible Robust and Transparent 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 $Li_7La_3Zr_2O_{12}$ (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_2 - Mo_2N 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 Electrolysers, **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 $BiVO_4$ Thin Films Deposited by Radiofrequency Co-Sputtering as Photoanode for H_2 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_xN 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

TS1-ThP-8 Enzyme-Catalyzed Thin-Film Coatings for Bipolar Plates, **Chiara Nenniger (Student)**, **Marisa Sárria Pereira de Passos**, Institute of Biotechnology, RWTH Aachen University, Aachen, Germany; **Philipp Niemietz**, Manufacturing Technology Institute (MTI), RWTH Aachen University, Aachen, Germany; **Thomas Bergs**, Manufacturing Technology Institute (MTI), RWTH Aachen University, Aachen, Germany; **Fraunhofer Institute for Production Technology (IPT)**, Aachen, Germany; **Ulrich Schwaneberg**, Institute of Biotechnology, RWTH Aachen University, Aachen, Germany; **DWI-Leibniz Institute for Interactive Materials e.V.**, Aachen, Germany

TS1-ThP-9 Sustainable Lithium-Ion Batteries: Constructing Biochar-Based Conductive Networks for LMFP Cathodes, **I-Hung Hsu (Student)**, **Che-Ya Wu**, National Tsing Hua University, Taiwan; **Wen-Lin Wang**, Agri-Industrial Systems Technology Division, ITRI Central Region Campus, Taiwan; **Tzu-Ying Lin**, National Tsing Hua University, Taiwan

TS1-ThP-10 Enhancing Performance of Solid-State Lithium-Ion Batteries with Glass Fiber-Reinforced Polymer Electrolyte, **Fu-Wei Chang (Student)**, **Tzu-Ying Lin**, National Tsing Hua University, Taiwan

TS1-ThP-11 MoS_2 Coating Facilitating Delayed Activation and Fast Charge-Discharge Properties in Highly-Doped n-type $SiNW$ Anodes for Lithium-Ion Batteries, **Li An Kuo (Student)**, **Ta Jen Yen**, Department of Materials Science and Engineering, National Tsing Hua University, Taiwan

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-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_2 Lamination of Porous Structures for Manufacturing Electro-Photocatalytic Reactors, **Yuri Glukhoy**, Nanocoating Plasma Systems Inc, USA; **Michael Ryabov**, nanocoating plasma systems inc, USA

TS2-ThP-5 Novel Self-Assembled Materials for Indoor Perovskite Solar Cells, *Chieh-Cheng Lu (Student)*, *Chih-Ping Chen*, *Yan-Ru Lin*, *Zhong-En Shi*, Ming Chi University of Technology, Taiwan, Republic of China

TS2-ThP-6 Perovskite Solar Cell with Potassium Chloride Treated SnO₂ Electron Transport Layer for Increased Efficiency, *Akhil Prio Chakma (Student)*, *Biplav Dahal*, *Tewelde Semere*, *Hongmei Dang*, University of The District of Columbia, USA

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

MC-ThP-5 Effect of Phosphorus on Tribological Properties of Laser Clad AlCoCrFeNiTi High-Entropy Alloy Coating in 3.5% NaCl Solution, *Xiulin Ji*, Shantou University, China

MC-ThP-6 Numerical and experimental evaluation of a borided Ti6Al4V alloy under cyclic contact loading., *Alfonso MENESES AMADOR*, *Hugo Alberto Pérez Terán*, *GERMAN ANIBAL RODRIGUEZ CASTRO*, *Marco Antonio Melo-Pérez*, Instituto Politécnico Nacional, Mexico

MC-ThP-7 Investigating Arctic Environmental Effects on Dry Sliding Wear Behavior of Protective Coatings, *Elyse Jensen (Student)*, *Austin McCracken*, South Dakota School of Mines and Technology, USA; *Emily Asenath-Smith*, Cold Regions Research and Engineering Laboratory, USA; *Grant Crawford*, *Forest Thompson*, South Dakota School of Mines and Technology, USA


MC-ThP-8 Development of Durable Multilayer Carbon Coatings for High-Contact Stress Engineering Applications Through Systematic Investigations, *Muhammad Usman*, City University of Hong Kong

MC-ThP-9 Analysis of Erosion Micromechanisms of a-C Coated SuperDuplex 2507 Steel, *Newton Fukumasu*, University of São Paulo, Brazil; *Juliana de Oliveira*, *Rubson M. Camporez*, *Lucas L. de Souza*, *Nathan F. Strey*, *Cherlio Scandian*, Federal University of Espirito Santo, Brazil; *André P. Tschiptschin*, *Roberto M. de Souza*, University of Sao Paulo, Brazil

MC-ThP-10 Validity of the 10% Rule of Thumb in Coatings Nanoindentation, *Esteban Broitman*, EDB Engineering Consulting, France

MC-ThP-11 Enhancing the High-cycle Fatigue Strength of Ti-Al-N Coated Ti-6Al-4V by Residual Stress Design, *Arno Gitschthaler*, *Rainer Hahn*, *Lukas Zauner*, *Tomasz Wojcik*, TU Wien, Institute of Materials Science and Technology, Austria; *Florian Fahrnberger*, *Herbert Hutter*, TU Wien, Austria; *Anton Davydok*, *Christina Krywka*, Helmholtz Zentrum Hereon, Institute of Materials Physics, Germany; *Jürgen Ramm*, *Anders Eriksson*, Oerlikon Balzers, Oerlikon Surface Solution AG, Liechtenstein; *Szilard Kolozsvári*, *Peter Polcik*, Plansee Composite Materials, Germany; *Helmut Riedl*, TU Wien, Institute of Materials Science and Technology, Austria

Friday Morning, May 16, 2025

Plasma and Vapor Deposition Processes Room Palm 1-2 - Session PP4-FrM Deposition Technologies for Carbon-based Coatings Moderators: Ivan Kolev, IHI Hauzer Techno Coating B.V., Netherlands, Biplab Paul, PLATIT AG, Switzerland		Tribology and Mechanics of Coatings and Surfaces Room Palm 3-4 - Session MC1-2-FrM Friction, Wear, Lubrication Effects, & Modeling II Moderators: Julien Keraudy, Oerlikon Balzers Coating AG, Liechtenstein, Pantcho Stoyanov, Concordia University, Canada	
8:00am		INVITED: MC1-2-FrM-1 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  , Germany	
8:20am	INVITED: PP4-FrM-2 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		MC1-2-FrM-3 Study of Microabrasive Wear on TiB ₂ /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	
9:00am	PP4-FrM-4 Diamond Like Carbon (DLC) Ablators for Fusion Energy, <i>Nicolas Vargas, Kuo-Chun Chen, Priya Raman, Martin Hoppe, Fred Elsner</i> , General Atomics, USA	MC1-2-FrM-4 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	
9:20am	PP4-FrM-5 Multifunctional Nanocomposite Coatings: Aerosol Assisted Plasma Deposition, <i>Alexis Aussonne (Student)</i> , LCC, Laplace, France	INVITED: MC1-2-FrM-5 Impact of Gaseous Environments on the Tribological Performance of Steel and Advantages of DLC Coatings, <i>Pierre-Francois Cardey</i> , Cetim, France	
9:40am	PP4-FrM-6 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		
10:00am	INVITED: PP4-FrM-7 With Carbon Coatings towards CO ₂ Neutrality - Industrialization in Electrochemical and Tribological Applications, <i>Martin Kopte</i> , VON ARDENNE GmbH, Dresden, Germany	MC1-2-FrM-7 Sliding Wear Behavior of Borided Ti ₆ Al ₄ V Alloy Under Dry Conditions and Simulated Body Fluids, <i>J. A. Nieto-Sosa (Student)</i> , <i>G. A. Rodríguez-Castro, A. Meneses-Amador</i> , INSTITUTO POLITECNICO NACIONAL, Mexico; <i>E. E. Vera-Cárdenas</i> , INSTITUTO TECNOLÓGICO DE PACHUCA, Mexico; <i>R. Pérez-Pasten-Borja, N. A. Hernández-Rosas</i> , INSTITUTO POLITECNICO NACIONAL, Mexico	
10:20am		MC1-2-FrM-8 Effects of Graphene Additives on the Mechanical Properties and Corrosion Resistance of Plasma Electrolytic Oxidation Coatings on AZ31B Magnesium Alloy, <i>Guan Zhong Chen (Student)</i> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan., Taiwan; <i>Chuan Ming Tseng</i> , Center for Plasma and Thin Film Technologies, Ming Chi University of Technology, Taiwan., Taiwan	

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