

ICMCTF 2025 Program Key

- CM** Advanced Characterization, Modelling and Data Science for Coatings and Thin Films
- EX** Exhibitors Keynote Lecture
- FTS** Focused Topic Session
- 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
Early TuM						Focused Topic Session I 7:00 a.m.		
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
Late TuM					EX-TuM: Exhibitors Keynote Lecture 11:00 a.m.			
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: Mech Prop & Adhes II/ MA5-1-WeM: Boron-cont Coatings I	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	MA5-2-ThM: Boron-containing Coatings II		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
ThL						Focused Topic Session II 12:20 p.m.		
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, <i>Kelsey Hatzell</i> , Princeton University, USA	
8:40am		
9:00am		

Monday Morning, May 12, 2025

	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: Davide G. Sangiovanni , Linköping University, Sweden	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
10:00am	INVITED: CM4-1-MoM-1 Crystal Symmetry Determination in Electron Diffraction Using Machine Learning, Kevin Kaufmann , Oerlikon Metco, USA	INVITED: MB2-1-MoM-1 Microstructure – Properties Relationship in New Zn-Iv-N2 Thin Films for Photovoltaics Applications, J. Pierson , IJL / CNRS / Univ. Lorraine, France
10:40am		MB2-1-MoM-3 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
11:00am	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	MB2-1-MoM-4 Effects of Room Temperature Sputtered Nano-Interfaced WxMoyO ₃ 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
11:20am	CM4-1-MoM-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	MB2-1-MoM-5 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
11:40am		
12:00pm		

Monday Morning, May 12, 2025

	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	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
10:00am	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	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 Abdabo, The University of Tennessee at Chattanooga, USA
10:20am		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
10:40am	PP1-1-MoM-3 Plasma Diagnostics and Thin Film Synthesis Using an Industrial-Sized DC Vacuum Arc Source with Magnetic Steering and a TaB ₂ Cathode, Igor Zhirkov , Andrejs Petruhins, Ali Saffar Shamshegar, 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	
11:00am	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	INVITED: MD1-1-MoM-4 Hydrogen-Treated Orthopedic Implants : A Novel Approach to Enhance Biocompatibility and Mitigate Inflammation, Ren-Jei Chung , National Taipei University of Technology, Taiwan
11:20am	PP1-1-MoM-5 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 Machorro, Centro de Nanociencias y Nanotecnología. Universidad Nacional Autónoma de México; Efraín Chávez, Instituto de Física. Universidad Nacional Autónoma de México	
11:40am	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	
12:00pm		

Monday Morning, May 12, 2025

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,		
10:00am	INVITED: TS1-1-MoM-1 Coating Innovations for Green Energy: Enabling Hydrogen Technologies, Mehmet Öte , Schaeffler Technologies AG & Co. KG, Germany	
10:20am		
10:40am	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	
11:00am		
11:20am	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	
11:40am		
12:00pm	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	

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: Po-Liang Liu , National Chung Hsing University, Taiwan		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, <i>Vladyslav Turlo, Simon Gramatte</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland	
2:00pm		
2:20pm	CM4-2-MoA-3 Conditions for the Preparation of Maximum-Quality 66Crystalline ZnO by Molecular Dynamics Simulations of the Atom-by-Atom Film Growth, <i>Jiri Houska, Kamila Hantova</i> , University of West Bohemia, Czechia	
2:40pm	CM4-2-MoA-4 MI-Assisted Atomistic Modeling of Transition Metal Diborides: Mechanical Response and Phase-Dependent Phenomena, <i>Shuyao Lin (Student)</i> ¹ , TU Wien, Institute of Materials Science and Technology, Austria; <i>Davide Sangiovanni, Lars Hultman</i> , Linköping Univ., IFM, Thin Film Physics Div., Sweden; <i>Paul Mayrhofer, Nikola Koutna</i> , TU Wien, Institute of Materials Science and Technology, Austria	MB2-2-MoA-4 Polycarbonate Transfer Techniques for the Fabrication of MoS ₂ Based Field Effect Transistors, <i>Chih-Hao Chiang, Ruo-Yao Wang (Student), Meng-Lin Tsai</i> , National Taiwan University of Science and Technology, Taiwan
3:00pm	INVITED: CM4-2-MoA-5 Computational Modeling of Nanoelectronics and Emerging Materials, <i>Chao-Cheng Kaun</i> , Academia Sinica, Taiwan	MB2-2-MoA-5 Advancing Piezo-Gated Transistor Performance by Bilayer of V-doped ZnO and Mesoporous PVDF-TrFE, <i>Yu Zhen Zhang (Student)</i> , National Cheng Kung University (NCKU), Taiwan
3:20pm		
3:40pm	BREAK	BREAK
4:00pm		MB2-2-MoA-8 Multicomponent Doping for Suppressing Resistivity Scaling of RuAl Intermetallic Compound for Next-Generation Interconnects, <i>Yi-Ying Fang, Yung-Hsuan Tsai, Yu-Lin Chen, Shou-Yi Chang</i> , National Tsing Hua University, Taiwan
4:20pm		MB2-2-MoA-9 Fabrication of IZO/IGZO-Based Vertical Thin-Film Transistor and Its Integration with OLEDs for High-Density Display, <i>Nahyun Kim (Student), Seok Hee Hong, Jun Hyeok Lee, Ho Jin Lee, Tae Geun Kim</i> , Korea University, Republic of Korea
4:40pm		MB2-2-MoA-10 Preventing Native Oxide Formation in Niobium Thin Films Through Platinum Encapsulation, <i>Ananya Chattaraj, Aswin Anbalagan</i> , Brookhaven National Laboratory, USA; <i>Jinhyun Cho</i> , Stony Brook University, USA; <i>Mingzhao Liu</i> , Brookhaven National Laboratory, USA
5:00pm		

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		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		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		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		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		
4:40pm	PP1-2-MoA-10 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-10 Determination of Residual Stress and Crystallite Size for TiAlN-Coated Milling Tools Using Laser-Spectroscopy-Based Grey-Box Modeling, <i>Nils Denkmann (Student), 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), 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 Characteristics of TiAlN+X Coatings for Inconel Machining using Advanced Arc Technology, <i>Ryosuke Takei, Shinichi Tanifuji, S. Hirota</i> , Kobe Steel Ltd., Japan; <i>M. Tona, N. Hirata</i> , Ayabo, Ltd., Japan	PP6-MoA-12 Characterization of AlCrVY(O)N Thin Film Properties and Thermo-Mechanical Load Profiles in Machining AISI 304 Stainless Steel Using Greybox Modelling Approaches, <i>Erik Krumme, Finn Rümenapf, Kai Donnerbauer, Jannis Saelzer, Nelson Filipe Lopes Dias, Pascal Volke, Andreas Zabel, Wolfgang Tillmann, Frank Walther, Simon Strodick</i> TU Dortmund University, Germany

Monday Afternoon, May 12, 2025

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		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
1:40pm		MD1-2-MoA-1 Surface Characteristics of Magnesium-Based Nanocomposite for Enhanced Biomedical Implants, Merna Abdrabo (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
2:00pm		INVITED: MD1-2-MoA-2 Carbide Derived Carbon Conversion Coatings for Tribological Applications, Mike McNallan , University of Illinois - Chicago, USA
2:20pm	IA2-1-MoA-3 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	
2:40pm	IA2-1-MoA-4 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	MD1-2-MoA-4 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
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 Franssen, IHI Hauzer Techno Coating B.V., Netherlands; Holger Hoche, Thomas Ulrich, TU Darmstadt, Germany; Peter Polcik, Plansee Composite Materials GmbH, Australia	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'hôpital BP 426 67091 Strasbourg cedex, France; Sandra WISNIEWSKI , François Bonnomet, CHRU Strasbourg, 1 place de l'hôpital BP 426 67091 Strasbourg cedex, France., France
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	
3:40pm	BREAK	BREAK
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 Cai (Student) , Xueyuan Nie, University of Windsor, Canada; Yezhe Lyu Lyu, Jens Wahlström, Lund University, Sweden	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
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	
4:40pm	IA2-1-MoA-10 Erosion Resistant PVD Coatings 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	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
5:00pm	IA-2-1-MoA-11 PVD Coatings for High Temperature Applications in Turbines, Markus Esselbach , Oerlikon Balzer, Liechtenstein	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
5:20pm		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

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		
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, Justyna Kulczyk-Malecka , Katharina Steier, David Shaw, Kleitos Panagi, Peter Kelly, Manchester Metropolitan University, UK	
2:00pm	TS1-2-MoA-2 Investigation of $\text{Ba}_{0.5}\text{Ce}_{0.3}\text{Zr}_{0.18}\text{Y}_{0.01}\text{Yb}_{0.01}\text{O}_{3-\delta}$ / $\text{Y}_{0.2}\text{Ce}_{0.8}\text{O}_{2-\delta}$ Composite Coatings for the Electrolyte of Solid Oxide Fuel Cell, Yen-Yu Chen , Ke-Hsing Wang, National Pingtung University of Science and Technology, Taiwan	
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, Sun-Tang Chang , Yi-Qing Chu, Zih-Jhong Huang, Chen-Hao Wang, National Taiwan University of Science and Technology, Taiwan	
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, 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	
3:00pm	TS1-2-MoA-5 Ternary FeCoNi / Graphene Composites as Electrocatalysts for Highly Efficient Hydrogen Evolution Reaction, Yu Tsung Lin (Student) , Jow Lay Huang, Sheng Chang Wang, Yu Min Shen, National Cheng Kung University (NCKU), Taiwan	
3:20pm		
3:40pm	BREAK	
4:00pm	TS1-2-MoA-8 One Step Fabrication of Highly Ordered Binder Free Vanadium Oxide Thin Film Cathode for Next Generation Micro Batteries, Ananya Bansal (Student) , Indian Institute of technology Roorkee, India; Ramesh Chandra, Indian Institute of Technology Roorkee, India	
4:20pm	TS1-2-MoA-9 Research Coating Conductive Material on SiO_x/rGO Composite Materials as Anode Material in Lithium-Ion Batteries, Yi-Ling Chen (Student) , National Cheng Kung University (NCKU), Taiwan	
4:40pm		
5:00pm		TUESDAY MORNING 7:00 a.m. Focused Topic Session I Town & Country B
5:20pm		7:00 am FTS-TuM-1 American Elements Focused Topic Session: Metal-Based Coatings and Alloys: Innovations, Challenges, and AI-Driven Advancements at American Elements, Chad Lindner , American Elements, USA

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, Stephanos Konstantinidis , University of Mons, Belgium	
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 , Baptiste Julien , 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 , IJL / 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 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	PP5-TuM-6 Synergies Between Laser Technology and Thin Films for Advanced Functionalities, Sylvain Le Coulre , BFH-ALPS, Switzerland	
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, Pinng-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			
10:40am			

Tuesday Morning, May 13, 2025

	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	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
8:00am	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	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 Moskovin, University of Namur, Innovative Coating Solutions, Belgium; Loris Chavee , University of Namur, Belgium; Szilard Kolozsvári , Plansee Composite Materials GmbH, Germany; Stéphane Lucas , University of Namur, Innovative Coating Solutions, Belgium
8:20am		
8:40am	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	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
9:00am	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	MA3-1-TuM-4 Micro-Fracture Toughness and Durability of HiPIMS-Deposited Hard Coatings used for Micro-Machining of TiAl ₆ V ₄ 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
9:20am	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	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
9:40am	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	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 Lümkmann , PLATIT AG, Switzerland; Johann Michler , Thomas E. J. Edwards, Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
10:00am	MA1-1-TuM-7 Microstructural Characterization and Isothermal Oxidation Behavior of a Nanolaminar Ti ₂ AlC 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 Garbiec , Łukasiewicz Research Network – Poznań Institute of Technology, Poland	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
10:20am	MA1-1-TuM-8 Harnessing Ti ₂ AlN MAX Phase Based PVD Coatings on Titanium Aluminide Alloys for High Temperature Applications, Sarra Boubtane , German Aerospace Center, Germany	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
10:40am	MA1-1-TuM-9 Empowering Pvd for Corrosion Protection: Ti(Al,Mg)Gdn Coatings with Game-Changing Corrosion Performance, Holger Hoche , Grafenstraße 2, Germany	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)

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: Hana Barankova , Uppsala University, Sweden Ladislav Bardos , 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, Kerim T. Arat , <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, Diana Berman , University of North Texas, USA	
8:20am	IA1-TuM-2 Non-stick Hydrophobic and Superhydrophilic Metallic Coatings: Their PVD Fabrications and Applications, Jinn P. Chu , National Taiwan University of Science and Technology, Taiwan; <i>Sea-Fue Wang</i> , National Taipei University of Technology, Taiwan		
8:40am	IA1-TuM-3 Energy Bandgap Engineering for Gate-All-Around Poly-Ge Charge Trapping Flash Memory by Using Stacking Tunneling Layer, Kuei-Shu Chang-Liao , National Tsing Hua University, Taiwan; <i>Dun-Bao Ruan</i> , Fuzhou University, China; <i>Chu-Chun Su</i> , National Tsing Hua University, Taiwan	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, Daniel Tobota , <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, Bo-Syun Syu (Student) , 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, Shrikant Joshi , University West, Sweden	
9:20am	IA1-TuM-5 Molecular Layer Deposition – Versatile Tool for High Performance CNT-Polymer Composites, Roie Yerushalmi , Edmond J Safra Campus, Givat Ram, Israel		
9:40am	INVITED: IA1-TuM-6 PVD Coatings for the Hydrogen economy - Applications, Testing and Production, Herbert Gabriel , 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, Aleksander Iwaniak , 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, Julien Keraudy , 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			
10:40am			

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 Design, Implementation and Production Upscaling of Magnetron Sputtering Cluster Technology for Future Applications” Harsh Environments, <i>Hailin Sun</i>, Teer Coatings, Ltd. UK	
11:20am		
11:40am		

Tuesday Afternoon, May 13, 2025

	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	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
1:40pm	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	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
2:00pm	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	
2:20pm	IA3-TuA-3 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	MA3-2-TuA-3 Evolution of the Pulsed-DC Powder-Pack Boriding Process: Exploring Low-Temperature Boride Layer Formation, <i>J. Rosales-Lopez (Student)¹, M. Olivares-Luna, L. Castillo-Vela, I. Campos-Silva</i> , Instituto Politécnico Nacional, Mexico
2:40pm	IA3-TuA-4 Advanced Cyclic Load Resistance of AlXN Coatings for Metal Forming Applications, <i>Simon Evertz, Stefan A. Glatz, Tobias Oellers, Markus Schenkel</i> , voestalpine eifeler Vacotec GmbH, Germany	MA3-2-TuA-4 Three-Fold Superstructured HfN/HfAlN Multilayers, <i>M. Lorentzon (Student)¹</i> , Linköping University, IFM, Thin Film Physics Division, Sweden; <i>R. Hahn</i> , TU Wien, Institute of Materials Science and Technology, Austria; <i>L. Hultman, J. Palisaitis</i> , Linköping University, IFM, Thin Film Physics Division, Sweden; <i>J. Rosen</i> , Linköping University, IFM, Materials Design Division, Sweden; <i>G. Greczynski, J. Birch, N. Ghafoor</i> , Linköping University, IFM, Thin Film Physics Division, Sweden
3:00pm	IA3-TuA-5 Bistability and Process Control in Electrolytic Plasma Processes, <i>Nicolas Laugel, Aleksey Yerokhin, Allan Matthews</i> , The University of Manchester, UK	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
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
4:00pm		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-Jih 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
4:20pm		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), Quang Chinh Nguyen</i> , Eötvös Loránd University, Hungary; <i>Noémi Szász, György Sáfrán</i> , HUN-REN Centre for Energy Research, Hungary

Tuesday Afternoon, May 13, 2025

Room Palm 5-6		Tribology and Mechanics of Coatings and Surfaces Session MC2-1-TuA Mechanical Properties and Adhesion I Moderators: Alice Lassnig, Austrian Academy of Sciences, Austria
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	
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; Shuhel 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 , Mark Haase , Anton Paar USA; Jiri Nohava , Anton Paar TriTec SA, Switzerland	
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
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		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
2:00pm		
2:20pm	MA1-2-TuA-3 Advanced Chemical Vapor Deposition Technology for High Temperature Applications, <i>Natasa Djordjevic</i> , <i>Anne Zhang</i> , <i>Hristo Strakov</i> , IHI Bernex AG, Switzerland	
2:40pm	MA1-2-TuA-4 Oxygen Concentration Governs High-Temperature Oxidation Behavior of $(\text{Cr}_{0.5}\text{Al}_{0.5})(\text{O}_y\text{N}_{1-y})$ Thin Films, <i>Pauline Kümmerl (Student)</i> , <i>Felix Leinenbach</i> , <i>Janani Ramesh</i> , RWTH Aachen University, Germany; <i>Daniel Primetzhofner</i> , Uppsala University, Sweden; <i>Marcus Hans</i> , <i>Jochen M. Schneider</i> , RWTH Aachen University, Germany	
3:00pm		
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
4:00pm	INVITED: MA2-1-TuA-8 Multicomponent Rare Earth Oxide Coatings for Refractory Alloys, <i>Rachel Rosner</i> , <i>Kristyn Ardrey</i> , <i>Will Riffe</i> , <i>Alejandro Salanova</i> , <i>Prasanna Balachandran</i> , <i>Bi-Cheng Zhou</i> , <i>Carolina Tallon</i> , <i>Jonathan Laurer</i> , <i>Jon Ihlefeld</i> , <i>Patrick Hopkins</i> , <i>Sandamal Witharamage</i> , <i>Elizabeth Opila</i> , University of Virginia, 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
4:20pm		
4:40pm		
5:00pm		
	MA2-1-TuA-10 PVD Ce-Coating to Mitigate Intergranular Oxidation of Additively Manufactured Ni-Base Alloy In625, <i>Anton Chyrkin</i> , <i>Andrea Fazi</i> , <i>Mohammad Sattari</i> , <i>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	

Tuesday Afternoon, May 13, 2025

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		Protective 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, Czechia
1:40pm		INVITED: MA4-1-TuA-1 Phase-Adjustable High-Entropy Alloy Coatings Prepared via Thermal Spray Process, Shih-Hsun Chen , NYCU, Taiwan
2:00pm	INVITED: TS3-TuA-2 Scalable Solar-Thermal Synthesis of High-Yield Flake Graphite and Hydrogen, Timothy S. Fisher , University of California Los Angeles, USA	
2:20pm		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
2:40pm	TS3-TuA-4 Developing Next Generation Sustainable Flexible Food Packaging Materials, Peter Kelly , Manchester Metropolitan University, UK; Carolyn Struller , Bobst Manchester Ltd, UK; Glen West , Manchester Metropolitan University, UK; Nick Copeland , Bobst Manchester Ltd, UK; Gwyneth Spence , Manchester Metropolitan University, UK	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
3:00pm	TS3-TuA-5 PFAS Free Anti-Stick Coatings for Superior Electrosurgical Performance, Noora Manninen , Julien Keraudy , Oerlikon Surface Solutions AG, Liechtenstein; Sanna Tervakangas , Oerlikon Surface Solutions, Finland; Klaus Boebel , Oerlikon Surface Solutions, Liechtenstein	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 Rodchanarowan , Department of Materials Engineering, Faculty of Engineering, Kasetsart University, Thailand; Jyh-Wei Lee , Ming Chi University of Technology, Taiwan
3:20pm	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
4:00pm	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	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; Li-Chun Chang , Ming Chi University of Technology, 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
4:20pm	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	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
4:40pm		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

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 Giachalas (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	MA2-2-WeM-3 Comparison of the Protective Performance of YSZ Coatings on Austenitic Steel Under Static and Dynamic Molten Carbonate Conditions, M. Teresa de Miguel , Gustavo García Martín , M. Isabel Lasanta , Jaime Chaves , Francisco Javier Perez Trujillo , Universidad Complutense de Madrid, Spain; Pauline Audigé , Sergio Rodríguez , Alina Agüero , Instituto Nacional de Técnica Aeroespacial (INTA), Spain
9:00am	PP2-1-WeM-4 Controlling Film Growth by Changing the Target Thickness, Diederik Depla , Farzaneh Ahangarani Farahani , Andreas Debrabandere , Ghent University, Belgium	MA2-2-WeM-4 Enhanced Oxidation Resistance of Ni substrate by Sputtered Nanotwinned Al ₉ 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
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 Sial , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland	
9:40am		
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
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		INVITED: MA4-2-WeM-1 Oxidation Resistance of High Entropy Nitride Thin Films Deposited by Magnetron Sputtering, <i>Djalil Eddine Touaibia, Abdelhakim Bouissil, Sofiane Achache, Mohamed El Garah, Frederic Sanchette</i> , 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, <i>Deepika Thakur (Student), Michaela Červená, Radomír Čerstvý, Petr Zeman</i> , 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, <i>Maria Zhadko, Anna Benediktová, Radomír Čerstvý, Jiří Houška, Jiří Čapek, David Kolenatý, Pavel Baroch, Petr Zeman</i> , University of West Bohemia, Czechia	MA4-2-WeM-3 Plasmonic Behaviour of Multi-Component Nitride (TiVZrNbTa) _{Nx} Thin Films, <i>Miguel Piñeiro (Student)</i> , Institut Jean Lamour - Université de Lorraine, France, Peru; <i>Salah-Eddine Benrazouq</i> , Institut Jean Lamour - Université de Lorraine, France, Morocco; <i>Valentin Milichko, David Pilloud, Thomas Easwarakhanthan</i> , Institut Jean Lamour - Université de Lorraine, France; <i>Frank Mücklich</i> , Saarland University, Germany; <i>Jean-François Pierson</i> , 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/AlCrNb High-Entropy Alloy Nitride Multilayer Thin Films, <i>Shang-Hua Tseng (Student)</i> , National Taiwan University of Science and Technology, Taiwan; <i>Jyh-Wei Lee</i> , Ming Chi University of Technology, Taiwan; <i>Chaur-Jeng Wang</i> , National Taiwan University of Science and Technology, Taiwan; <i>Bih-Show Lou</i> , Chang Gung University, Taiwan	MA4-2-WeM-4 Temperature Stability of High Entropy Ceramic Cr-Hf-Mo-Ta-W-N Refractory Metal Coatings, <i>Pavel Soucek, Stanislava Debnarova, Matej Fekete</i> , Masaryk University, Czechia; <i>Sarka Zuzjakova</i> , University of West Bohemia, NTIS, Czechia; <i>Shuyao Lin</i> , Technische Universität Vienna, Austria; <i>Ondrej Jasek, Tatiana Pitonakova</i> , Masaryk University, Czechia; <i>Nikola Koutna</i> , Technische Universität Vienna, Austria; <i>Petr Zeman</i> , University of West Bohemia, NTIS, Czechia
9:20am	MA3-3-WeM-5 Impact of Microstructural Characteristics of HVOF-Deposited Cr ₃ C ₂ -Cermets Coatings on Their Performance in Sliding Abrasive Wear, <i>Xinqing Ma, Peter Ruggiero</i> , Curtiss-Wright Corporate, USA	
9:40am		
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
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, <i>Saeideh Naghdali, Maximilian Schiester</i> , Montanuniversität Leoben, Austria; <i>Marcus Hans</i> , RWTH Aachen University, Germany; <i>Markus Pohler, Christoph Czettl</i> , CERATIZIT Austria GmbH, Austria; <i>Michael Tkadletz, Nina Schalk</i> , Montanuniversität Leoben, Austria	MA4-2-WeM-10 The Microstructure, Mechanical Properties and Performance of High-Entropy (AlCrTiMoVN _i)N Coatings Produced by Cathodic Arc Evaporation, <i>Qi Yang</i> , National Research Council of Canada; <i>Alex Lothrop, Xiao Huang</i> , Carleton University, Canada
11:20am	MA3-3-WeM-11 Sputter Deposition of Ultrathick Boron Carbide Coatings on Rolling Spherical Substrates, <i>William Rios Lopez (Student)</i> , James Merlo, Greg Taylor, Jean-Baptiste Forien, Sergei Kucheyev, Lawrence Livermore National Lab, USA	MA4-2-WeM-11 Fabrication of CrMoNbW ₂ Ti High Entropy Alloy Thin Films: Effect of Ti Content, <i>Han-Jie Chen (Student)</i> , Ming Chi University of Technology, Taiwan; <i>Bih-Show Lou</i> , Chang Gung University, Taoyuan, Taiwan; <i>Jyh-Wei Lee</i> , Ming Chi University of Technology, Taiwan
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, <i>Bartosz Wicher</i> , Linköping University, IFM, Thin Film Physics Division, Poland; <i>Vladyslav Rogoz</i> , Linköping University, IFM, Thin Film Physics Division, Ukraine; <i>Oleksandr Pshyk</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Switzerland, Ukraine; <i>Szilard Kolozsvári, Peter Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>Ivan Petrov</i> , University of Illinois at Urbana-Champaign, USA, Bulgaria; <i>Lars Hultman, Grzegorz Greczynski</i> , 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, <i>Tongyue Liang (Student)</i> , Stéphanie Bessette, Reynald Gauvin, Richard Chromik, McGill University, Canada
12:00pm	MA3-3-WeM-13 Nanostructured Multilayer Cr/C Coatings for Advanced Protection of Mold Tools, <i>Yavor Sofronov, Krassimir Marchev, Milko Angelov, Milko Yordanov, Rayna Dimitrova, Krum Petrov, Antonio Nikolov, Todor Gavrilov</i> , Technical University of Sofia, Bulgaria	

Wednesday Morning, May 14, 2025

	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	Tribology and Mechanics of Coatings and Surfaces Room Palm 5-6 - Session MC2-2-WeM Mechanical Properties and Adhesion II Moderator: Chia-Lin Li , Ming-Chi University of Technology, Taiwan
8:00am		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
8:20am		
8:40am		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
9:00am		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
9:20am	INVITED: MD2-WeM-5 Green Fabrication of Conductive Carbon Thin Film Patterns for Biosensors, Ying-Chih Liao , National Taiwan University, Taiwan	MC2-2-WeM-5 Adhesion at the Glass/Metal interface probed by Colored Picosecond Acoustics, Arnaud Devos , IEMN, France
9:40am		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
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL
		Protective and High-temperature Coatings Room Palm 5-6 - Session MA5-1-WeM Boron-containing Coatings I Moderator: Anna Hirle , TU Wien, Austria
11:00am	INVITED: MD2-WeM-10 Functionalized Graphene for Sensor Applications, Chi-Hsien Huang , Ming Chi University of Technology, Taiwan	INVITED: MA5-1-WeM-10 Metal Boride Nanocrystal Inks for Applications in Extreme Environments, Loredana Protesescu , RUG, Netherlands
11:40am	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	MA5-1-WeM-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	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	

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: Stephan Tremmel, University of Bayreuth, Germany, Martin Welters, KCS Europe GmbH, 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, Ben Beake , 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> , Julia Urbanczyk , 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> , Marta Miranda Marti , Surface Engineering Institute - RWTH Aachen University, Germany	
10:00am	COMPLIMENTARY REFRESHMENTS IN EXHIBIT HALL	
11:00am	MC3-1-WeM-10 Wear Protection via Triboactive CrAlMoN Coatings in Chain Drives, <i>Kirsten Bobzin</i> , <i>Christian Kalscheuer</i> , Max Philip Möbius , 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, Aljaz Drnovsek , <i>Peter Panjan</i> , <i>Matjaž Panjan</i> , <i>Miha Čekada</i> , Jožef Stefan Institute, 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 Gulten</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.; Ihsan Efeoglu , 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, <i>Emanuele Sortino</i>, 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, Barbara Putz , Empa Thun, Switzerland	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 , Matthew Hilfiker, University of Nebraska-Lincoln, USA; <i>Shawn Wimer, Raymond Smith</i> , University of Nebraska - Lincoln, USA; <i>Christos Argyropoulos</i> , Pennsylvania State University, USA; <i>Eva Schubert, 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 , Joel Fischer, 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 Fabrication of High Quality Titanium Nitride Nanostructures for Plasmonics, Spyros Kassavetis , Stavros Panos, Nikos Pliatsikas, Despina Tselekidou, Panos Patsalas, Aristotle University of Thessaloniki, Greece	PP2-2-WeA-3 Energy Contributions in the Reactive Sputter Deposition of TiO ₂ Thin Films, Daniel Fernandes (Student) , Lars Österlund, Tomas Kubart, Uppsala University, Angstrom Laboratory, Sweden
3:00pm	MB1-WeA-4 Enhancing Optical Properties and Photocatalytic Performance with Nanopatterned Anodized Aluminum Oxide on transparent substrate, Fu-Gi Zhong (Student) , Shih-Hsun Chen, National Yang Ming Chiao Tung University (NYCU), Taiwan	PP2-2-WeA-4 Effects of the Ion Energy Level on the Electrophysical LaB ₆ Thin Films Properties Deposited by HIPIMS, Cesar D. Rivera Tello , Jonatan Pérez Álvarez, Martin Flores, Erika Roxana Larios Durán, Universidad de Guadalajara, Mexico; <i>Eric Serrato Sepulveda</i> , Universidad de Guadalajara, Monaco; <i>Jose Guadalupe Quiñonez Galván</i> , Carlos R. Michel Uribe, Universidad de Guadalajara, Mexico
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 Crmonbtw High Entropy Alloy Carbide Thin Films Grown by a Superimposed Highpower Impulse and Medium-Frequency Magnetron Sputtering System, Tse Wei Chen (Student) , Chia-Lin Li, 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, <i>Raman Devi, Somdatta Singh</i> , Ramesh Chandra , IIT Roorkee, India	PP2-2-WeA-6 Novel Superimposed HIPIMS/RF Sputtering Process on a Single Magnetron, <i>Mark Günter</i> , Melec GmbH, Germany; Caroline Adam , Melec GmbH, Kiel University, Germany
4:00pm	MB1-WeA-7 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-7 Towards Ti-Si-C MAX-based coatings via reactive cathodic arc evaporation: Advanced Characterization and Process Optimization, Arno Gitschthaler , Rainer Hahn, 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		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) , Arutiun Ehasarian, 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 , Anand Y. Joshi, 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 , Marjorie Cavarroc, Safran, France; <i>Angeline Poulon</i> , CNRS, Université de Bordeaux - ICMCB, France
5:00pm	MB1-WeA-10 Influence of Post-Heat Treatment on Structural, Photocatalytic, Dielectric, and Tribological Properties of TiO ₂ /Al/TiO ₂ Multilayer Thin Films, Anand Joshi , Mahendra Singh Rathore, Unnati Joshi, Parul University, India	
5:20pm		

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 Drobníč , 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		

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: Arnaud Le Febvrier , Uppsala University, Sweden		Tribology and Mechanics of Coatings and Surfaces Room Town & Country C - Session MC3-2-WeA Tribology of Coatings and Surfaces for Industrial Applications II Moderator: Dominic Stangier , Oerlikon Balzers Coating Germany GmbH, Germany
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 , University of Windsor, Canada; Woo-Jin Choi , Jongkuk Kim, Korea Institute of Materials Science, Korea (Republic of Korea); 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 Vlassiouk , 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	
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 , Sun Wei Tse , National Tsing Hua University, Taiwan; Jyh-Pin Chou , National Taiwan University, Taiwan, Jia-Yu Tsai , National Taipei University of Technology, Taiwan	
3:40pm	INVITED: TS2-WeA-6 Transition Metal-Based Electrocatalysts for Sustainable Oxygen Reactions in Green Energy Applications, Emma Björk , Linköping University, IFM, Sweden	
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 , TU Dortmund University, Germany; Domic Stangier , Oerlikon Balzers Coating Germany GmbH, Germany; Julia Urbanczyk , Gabriel Brune , 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	
4:40pm		

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**
Wednesday Afternoon, May 14, 2025

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 Moderator: Barbara Putz, Empa Thun, Switzerland		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, <i>Takahito Ohmura</i> , 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, <i>Ryota Gemma</i> , Tokai University, Japan; <i>Talaat Al-Kassab, Astrid Pundt</i> , University of Göttingen, Germany	CM2-1-ThM-3 Accelerating Workflows for High-Throughput Nanoindentation, <i>Eric Hintsala</i> , <i>Kevin Schmalbach</i> , <i>Douglas Stauffer</i> , 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, <i>Krishna Sarath Kumar Busi (Student)</i> , Technical University Darmstadt, Germany; <i>Tim Fuggerer</i> , University of Erlangen-Nuremberg, Germany; <i>Sebastian Bruns</i> , Technical University Darmstadt, Germany; <i>Timo Fromm</i> , <i>Stefan M Rosiwal</i> , University of Erlangen-Nuremberg, Germany; <i>Karsten Durst</i> , Technical University Darmstadt, Germany
9:20am	CM1-1-ThM-5 Monitoring Thin Film Battery Electrodes via in-Situ/in-Operando Ellipsometry, <i>Máté Füredi</i> , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; <i>Jialin Gu, Adam Lovett</i> , University College London, UK; <i>Bálint Fodor, András Marton</i> , Semilab Semiconductor Physics Laboratory Co. Ltd., Hungary; <i>Stefan Guldin</i> , Technical University of Munich, Germany; <i>Thomas Miller</i> , University College London, UK	
9:40am	CM1-1-ThM-6 Exploring the Benefits of Automated, Redox Reactions in XPS Analysis, <i>James Lallo</i> , Thermo Fisher Scientific, UK, USA; <i>Robin Simpson, Paul Mack, Tim Nunney</i> , Thermo Fisher Scientific, UK	
10:00am	BREAK	BREAK
10:20am		INVITED: CM2-1-ThM-8 Mechanical Properties of Thin Films Studied using 4D-STEM, <i>Christoph Gammer</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <i>Alice Lassnig</i> , Montanuniversität Leoben, Leoben, Austria; <i>Lukas Schretter, Simon Fellner</i> , Erich Schmid Institute of Materials Science, Austrian Academy of Sciences, Leoben, Austria; <i>Jürgen Eckert</i> , Montanuniversität Leoben, Leoben, Austria
10:40am		
11:00am		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, <i>Hatem Ben Mahmoud, Damien Faurie</i> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France; <i>Pierre-Olivier Renault, Pierre Godard</i> , Institut Pprime - CNRS - ENSMA - Université de Poitiers, France; <i>Dominique Thiaudière, Philippe Joly, Christian Mocuta</i> , Soleil Synchrotron, France; <i>Eloi Haltz, Noël Giradon-Boulandet, Fatih Zighem</i> , Laboratoire des Sciences des Procédés et des Matériaux (LSPM) – CNRS, France
11:20am		CM2-1-ThM-11 Cross-Sectional Nanoindentation Mapping of Sputtered Inconel 725 Films, <i>Ikponmwosa Iyinbor (Student)</i> , Mork Family Department of Chemical Engineering and Materials Science, University of Southern California., USA; <i>Jin Wang</i> , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Jülich GmbH., Germany; <i>Ruth Schwaiger</i> , Institute of Energy Materials and Devices, Microstructure and Properties of Materials (IMD-1), Forschungszentrum Jülich GmbH., Germany; <i>Andrea Hodge</i> , 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, <i>Thomas Edwards</i> , NIMS (National Institute for Materials Science), Japan; <i>Hendrik Jansen</i> , Empa, Swiss Federal Laboratories for Materials Science and Technology, Thun, Switzerland; <i>Seiichiro Ii</i> , NIMS (National Institute for Materials Science), Japan; <i>Barbara Putz, Johann Michler</i> , 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: Ufuk Kilic , University of Nebraska – Lincoln, 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 Cluster-assembled Computers, Paolo Milani , University of Milan, Italy
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		
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 , Sadhvikas 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 Rübig , 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 Hóltzl , 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 , Clio 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 Hovsepien I Moderators: Arutun 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 MA5-2-ThM Boron-containing Coatings II 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	
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	MA5-2-ThM-3 Influence of Boriding Treatment on the Tribological Performance of Tool Steel Repaired by Wire and Arc Additive Manufacturing, <i>Cesar Resendiz</i> , Tecnológico de Monterrey, Mexico
9:00am		MA5-2-ThM-4 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> , TU Wien, Austria; <i>Christian Gutschka, Tomasz Wojcik</i> , TU Wien, Austria; <i>Maximilian Podsednik</i> , 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
9:20am	INVITED: PP8-1-ThM-5 Research and Innovation in Surface Engineering with Prof. Hovsepien in EU Projects - following Papken's Research Legacy, <i>Francisco Javier Perez Trujillo</i> , Universidad Complutense de Madrid, Spain	MA5-2-ThM-5 Tuning Properties of Diborides by Transition Metal Alloying Deposited by Combination of Magnetron Sputtering and Cathodic ARC Evaporation, <i>Daniel Karpinski, Keith Thomas, Pavla Karvankova</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>Christian Krieg, Andreas Lümekmann, Hamid Bolvardi</i> , PLATIT AG, Switzerland
10:00am		
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	MA5-2-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; <i>Min-Yi Lin (Student)</i> , Department of Materials Engineering, Ming Chi University of Technology, Taiwan, ROC; <i>Fu-Sen Yang</i> , Department of Mechanical Engineering, National Taiwan University of Science and Technology, Taiwan, ROC; <i>Chi-Lung Chang</i> , Department of Materials Engineering, Ming Chi University of Technology,
10:40am		MA5-2-ThM-9 TiB_2/Hf Superlattices: Exploring Mechanical Strength, Fracture Toughness, and Stress-Strain Behavior, <i>Naureen Ghaffor, 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	MA5-2-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		MA5-2-ThM-11 Influence of Deposition Parameters on the Microstructure, Mechanical and Anti-Corrosion Characteristics of (Hfvtizrw)B2 High Entropy Alloy Boride Thin Films, <i>Jun-Xing Wang (Student)</i> , Ming Chi University of Technology, Taiwan; <i>Bih-Show Lou</i> , Chang Gung University, Taoyuan, Taiwan; <i>Riedl-Tragenreif Helmut</i> , Technische Universität Wien, Austria; <i>Jyh-Wei Lee</i> , Ming Chi University of Technology, Taiwan
11:40am	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	MA5-2-ThM-12 Comparative Analysis of Oxidation Behavior and Mechanical Properties of $Hf_{0.24}Al_{0.06}B_{0.70}$ vs. $Hf_{0.35}B_{0.65}$ Thin Films, <i>Eva B. Mayer (Student)</i> , Janani D. Ramesh, 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
12:00pm		
12:20 pm	THURSDAY LUNCH Focused Topic Session II FTS-ThL-1 Elsevier Focused Topic Session: The World of Scientific Publishing: Perspective from an Author, Reviewer and Editor, <i>Marcus Hans</i> , RWTH Aachen University, Germany	

Thursday Afternoon, May 15, 2025

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,		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	
1:20pm	INVITED: CM1-2-ThA-1 Crystalline-Amorphous Interface Fracture Explored Across Different Length Scales, Alice Lassnig , Montanuniversitat Leoben, Austria; Michael Meindlhumer , 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	CM2-2-ThA-1 Influence of Applied Deformation on Magnetic Properties of Ferromagnetic Ni ₆₀ Fe ₄₀ 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	
1:40pm		INVITED: CM2-2-ThA-2 The Local Electrical Fingerprint of Deformation and Growth -Induced Defects in Alloys, Hanna Bishara , Tel Aviv University, Israel	
2:00pm	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 Vecchiotti , 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		
2:20pm	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	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	
2:40pm		INVITED: CM2-2-ThA-5 Micromechanical Testing of Ceramic Coatings for Nuclear Applications up to 1000°C, Dong (Lilly) Liu , University of Oxford, UK	
3:00pm	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		
3:20pm	CM1-2-ThA-7 Real-Time Particle Detection for Enhanced Coating Deposition Processes, Constant Boris Rielle , Sylvain LeCoultré , Berner Fachhochschule BFH, Switzerland		
3:40pm	BREAK		
4:00pm	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		
4:20pm			
4:40pm	CM1-2-ThA-11 A Combination of Real-Time Diagnostics Probing the Impact of N ₂ 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		

Thursday Afternoon, May 15, 2025

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		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	
1:20pm	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		INVITED: PP8-2-ThA-1 PVD Based Solutions for Mankind Through Applied Research, Ton Hurkmans , IHI Ionbond Group, Germany
1:40pm			
2:00pm	INVITED: CM3-2-ThA-3 Autonomous Experiments for Thin Films and Solid Materials, Taro Hitosugi , The University of Tokyo, Japan		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
2:20pm			
2:40pm			INVITED: PP8-2-ThA-5 Carbon Based Surface Solutions – from a Glorious Legacy to Recent Advances, Vishal Khetan , Oerlikon Surface Solution AG, Switzerland
3:00pm			
3:20pm			INVITED: PP8-2-ThA-7 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
3:40pm			
4:00pm			
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 Pölzlberger</i> , Institute of Materials Science and Technology, TU Wien, Austria; <i>Rainer Hahn</i> , <i>Tomasz Wojcik</i> , <i>Philip Kutrowatz</i> , Christian Doppler Laboratory for Surface Engineering of High-performance Components, TU Wien, Austria; <i>Klaus Böbel</i> , <i>Julien Keraudy</i> , Oerlikon Balzers, Oerlikon Surface Solutions AG, Liechtenstein; <i>Szilard Kolozsvári</i> , <i>Peter Polcik</i> , Plansee Composite Materials GmbH, Germany; <i>Philipp G. Grützmacher</i> , <i>Carsten Gachot</i> , Institute of Design Engineering and Product Development, Research Unit Tribology, TU Wien, Austria; Helmut Riedl , 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</i> , <i>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</i> , <i>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</i> , <i>André P. Tschiptschin</i> , <i>Izabel F. Machado</i> , <i>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, <i>Adrián Claver</i> , 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> , Ambiorn.Wennberg , 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

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-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 Nunney*, 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 Zerdoumi*, *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 Siol*, 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*, *Anthony Graziano*, Physical Electronics, USA

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., Republic of Korea

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

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-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-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-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 Hajas*, Institute of Materials Science and Technology, TU Wien, Austria; *Helmut Riedl*, Christian Doppler Laboratory for Surface Engineering of high-performance Components, TU Wien, Austria

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

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

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

MB-ThP-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-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-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-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*, CLKOA, 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-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-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

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-3 Spinodal Decomposition and Nano-precipitate Formation in Ag-modified High-Entropy Alloys, **Salah-eddine Benrazzouq (Student)**, *Abdelkrim Redjaïmia*, *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 Piñeiro**, Institut Jean Lamour - Université de Lorraine, France, Peru; *Salah-Eddine Benrazzouq*, Institut Jean Lamour - Université de Lorraine, France, Morocco; *Alexandre Bouché*, *Valentin Milichko*, *David Pilloud*, *Thomas Easwarakhanthan*, Institut Jean Lamour - Université de Lorraine, France; *Frank Mücklich*, Saarland University, Germany; *Jean-François Pierson*, Institut Jean Lamour - Université de Lorraine, France

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

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, **Chi-Hua Chiu (Student)**, *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-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-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-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-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-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

MD-ThP-14 Electrochemical and Antimicrobial Coating: Increasing the Ionic Charge on Titanium Surfaces as a Preventive Strategy for Titanium Implants, João Pedro dos Santos Silva, École des mines de Saint-Étienne, France; Daniela Buenos Ayres de Castro, Mariana Mireski, Catia Sofia 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

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-2 Y-doped Li₇La₃Zr₂O₁₂(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-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 BiVO₄ Thin Films Deposited by Radiofrequency Co-Sputtering as Photoanode for H₂ 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 Nenninger (Student)**, Marisa Sárria Pereira de Passos, Institute of Biotechnology, RWTH Aachen University, Aachen, Germany; Philipp Niemiets, 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-12 Collaboration between Atomic Clusters of Co, Sn, Ni Hydroxides, Pt Atoms in Pd Nanoparticle Surface Boosts Outstanding Oxygen Reduction Reaction Performance, **Jia-Yu Tsai**, Po-Chun Chen, National Taipei University of Technology, 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-6 Perovskite Solar Cell with Potassium Chloride Treated SnO₂ Electron Transport Layer for Increased Efficiency, **Akhil Prio Chakma (Student)**, Biprav 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

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

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-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 Moderator: Philipp Immich, IHI Hauzer Techno Coating B.V.		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 Surface Solutions 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		
8:40am		MC1-2-FrM-3 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
9:00am		MC16000-2-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> , G. A. Rodríguez-Castro, A. Meneses-Amador, Instituto Politecnico Nacional, Mexico; E. E. Vera-Cárdenas, Instituto Tecnológico De Pachuca, Mexico; R. Pérez-Pasten-Borja, N. A. Hernández-Rosas, Instituto Politecnico Nacional, Mexico
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