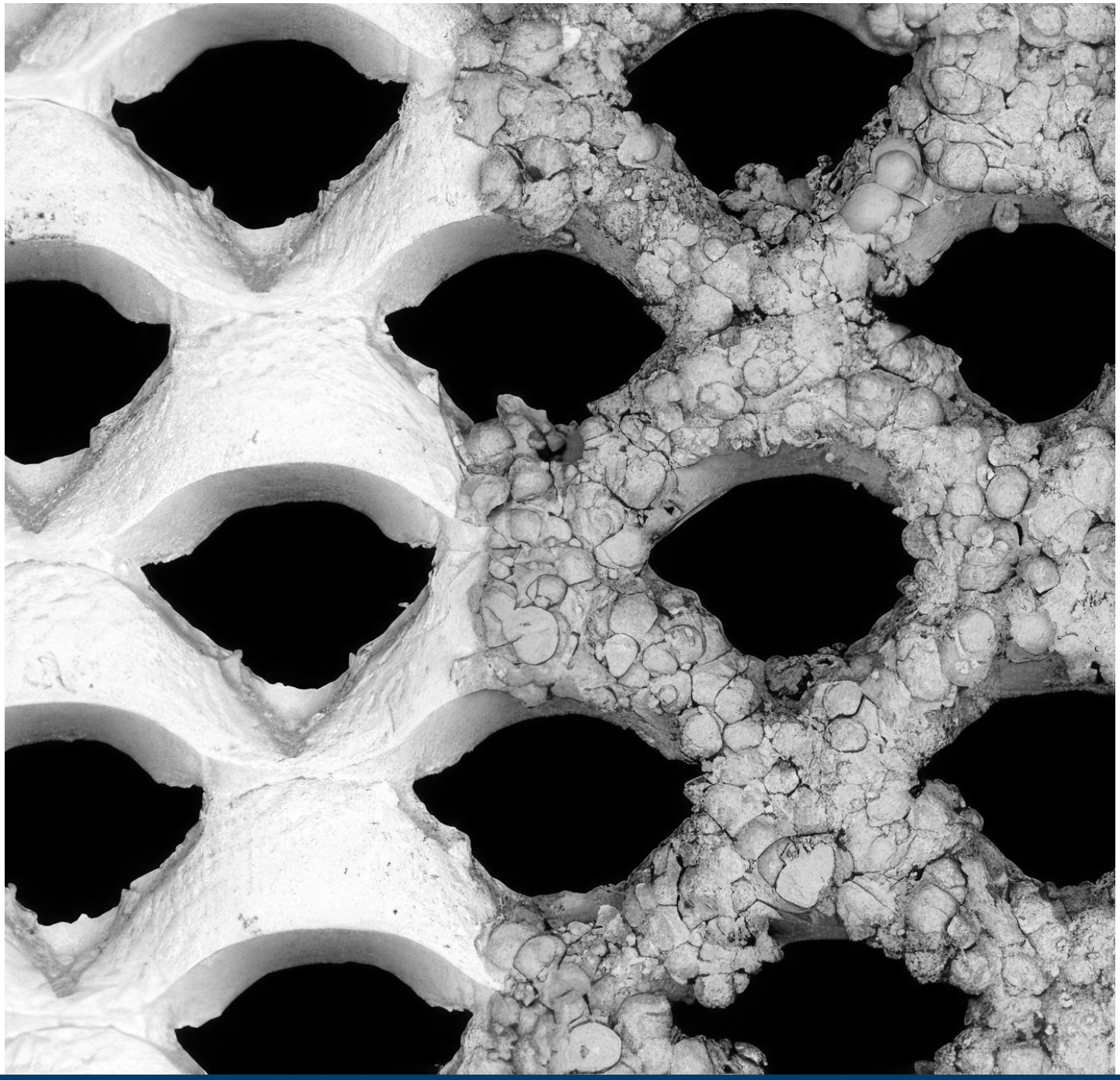

12 RIPT 2026

LES RENCONTRES INTERNATIONALES DE LA PROJECTION THERMIQUE

10 – 12 June, 2026 · Forschungszentrum Jülich, Germany

Program

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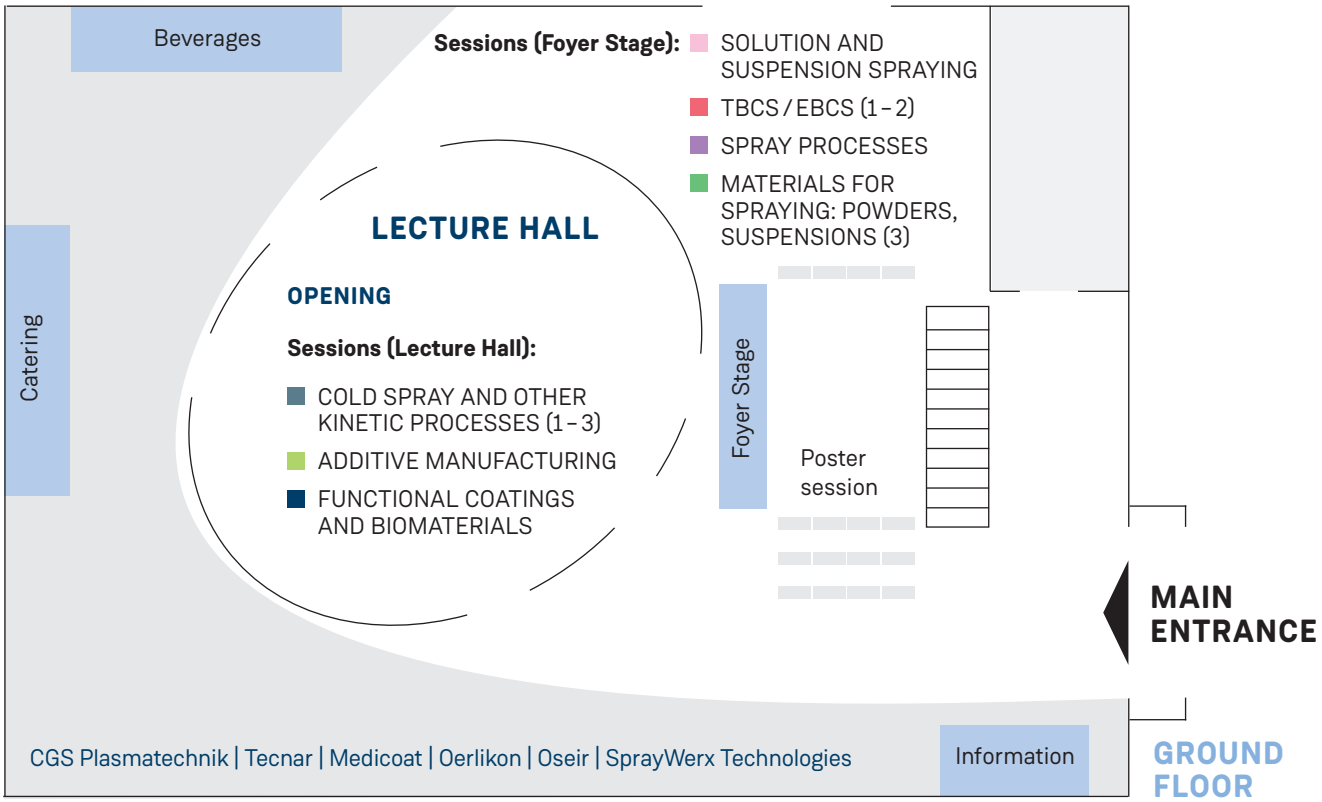

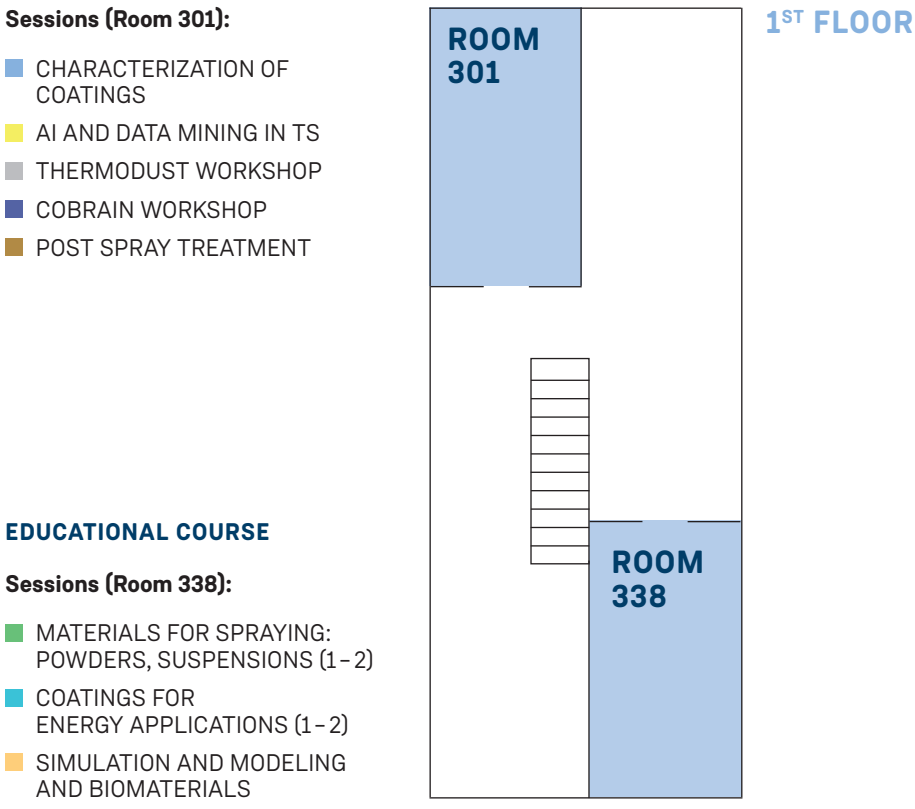

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Robert Vaßen, Forschungszentrum Jülich, Germany

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CONFERENCE AGENDA

12 RIPT 2026 – LES RENCONTRES INTERNATIONALES DE LA PROJECTION THERMIQUE

WEDNESDAY, JUNE 10TH, 2026

	ROOM 338, BUILDING 04.7
09:00	**EDUCATIONAL COURSE** Welcome and Introduction **Lech Pawłowski and Robert Vaßen**
09:15	Physical Methods of Film and Coatings Deposition **Lech Pawłowski**
10:15	Evolution of Equipment, Technology and Feedstock in Thermal Spraying **Shrikant V. Joshi**
11:15	Coffee break
11:30	Thermal Spray Process Diagnostics and Deposit Formation Dynamics **Sanjay Sampath**
12:30	Lunch break (Seecasino)
13:45	Thermal Spray: Testing and Characterization Methods **Šárka Houdková**
15:15	Experimental demonstration of thermal spray processes and diagnostic methods **Georg Mauer and colleagues**
	FORUM M, Buchkremerstraße 1 – 7, 52062 Aachen
19:00 – 21:00	**WELCOME RECEPTION**
21:00	Young Researchers Event

THURSDAY, JUNE 11TH, 2026

07:45	Departure Shuttles			
08:45 – 09:15	Registration			
	LECTURE HALL, BUILDING 04.7			
09:15	Opening and Welcome address Robert Vaßen and Lech Pawłowski			
09:35	Exhibition Teaser			
10:15	Coffee Break			
	LECTURE HALL	**STAGE FOYER**	**ROOM 301**	**ROOM 338**
	COLD SPRAY AND OTHER KINETIC PROCESSES (1) **Chair: Marcin Winnicki**	**SOLUTION AND SUSPENSION SPRAYING** **Chair: Filofteia-Laura Toma**	**CHARACTERIZATION OF COATINGS** **Chair: Lech Pawłowski**	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (1)** **Chair: Sophie Costil**
10:45 – 11:15	From Basics on Cold Spraying to Solutions for Additive Manufacturing and Repair **Frank Gärtner**, Zahra Arabgol, Julio Gutierrez, Thomas Klassen, Luca Klingler, Jim Merlin Manoo Klutta, Marcel Lewke, Alexander List, Maximilian Mosig, Sören Nielsen, Levke Wiehler, Hongjian Wu *Helmut-Schmidt-University, University of the Federal Armed Forces Hamburg, Germany*	Does Solution Precursor Plasma Spraying Merit a Revisit? **Shrikant Joshi** *University West, Trollhättan, Sweden, Sweden*	Understanding Blistering in Ceramic Coatings: The Contribution of Laser Shock Methods in Damage Analysis **Vincent Guipont**, Vincent Maurel *MINES Paris – PSL, Centre des Matériaux, Versailles, France*	Microstructural Tailoring of Alumina-Based Powders: Impact of Particle Microstructure on Formation and Properties of Atmospheric Plasma Sprayed Coatings **Maximilian Grimm**[1], Lutz-Michael Berger[2], Susan Conze[2], Thomas Lampke[1] *[1]Chemnitz University of Technology, Germany; [2]Fraunhofer IKTS Dresden, Germany*
11:15 – 11:35	HVOF and Cold Sprayed Hardmetal Coatings for Brake and Clutch Systems to Reduce Particulate Emissions **Šárka Houdková**[1], Marketa Jankova[1], Tomas Fiala[2], Josef Duliskovic[1], Marek Vostrak[1] *[1]Research and Testing Institute Plzen, Czech Republic Czechia); [2]University of Alberta, Canada*	Prospects for Deposition of High-Entropy Oxide Coatings via Solution Precursor Plasma Spraying **Ameey Anupam**[1], Nolwenn Jegou[1,2], Frantisek Lukac[3], Radek Musalek[3], Shrikant Joshi[1] *[1]University West, Sweden; [2]University of Limoges, France; [3]Institute of Plasma Physics of the Czech Academy of Sciences, Czechia*	Influencing Factors on the Electrical Measurment of Oxide Coatings **Susan Conze**, Michael Nicolai, Anne Greiner, Sebastian Stark, Lutz-Michael Berger *Fraunhofer IKTS, Germany*	Reshaping Wear and Corrosion Protection: NbC-Fe-based Coatings as a Safer Alternative **Lukas Tegelkamp**[1], Susan Conze[2], Lutz-Michael Berger[2], Maximilian Grimm[1], Thomas Lampke[1] *[1]TU Chemnitz, Germany; [2]Fraunhofer IKTS, Germany*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (1)	**SOLUTION AND SUSPENSION SPRAYING**	**CHARACTERIZATION OF COATINGS**	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (1)**
11:35 – 11:55	Warm Spray – The Convergence of Cold Spray and HVOF **Alan Burgess** *Spraywerx Technologies Inc., Canada*	Epitaxial ZnO Coatings by Atmospheric Solution Precursor Plasma Spray: Influence of Parameters and Functional properties **Mathieu Tartarin**[1], Pierre Carles[1], Patrice Duport[1], Geoffroy Rivaud[1], Quentin Dubreuil[1], Fabien Remondiere[1], Laurène Youssef[1], Simon Goutier[1], Vincent Rat[1], Alan Kéromnès[1], Pascal André[2] *[1]Univ. Limoges, CNRS, IRCER, UMR CNRS 7315, F-87000, France; [2]LPCA, UMR CNRS 6533, Université Clermont Auvergne, France*	Influence of Heat Treatment of Cold Sprayed 316L Coatings Evaluated by Infrared Non-Destructive Inspection Alexey Moskovchenko[1], **Michal Svantner**[1], Marek Vostrak[2], Zaneta Dlouha[2], Sarka Houdkova[2] *[1]University of West Bohemia in Pilsen, Czech Republic (Czechia); [2]Research and Testing Institute Plzen, Czech Republic (Czechia)*	High-throughput spheroidization of YSZ powders using WSP-H plasma torch **Jonas Dudik**[1,2], Tomas Tesar[1], Jan Medricky[1], Frantisek Lukac[1], Radek Musalek[1] *[1]Institute of Plasma Physics of the Czech Academy of Sciences, Prague, Czechia; [2]Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Prague, Czechia*
11:55 – 12:15	Quantitative critical analysis of micron-scale defects in cold spray deposits **Hongjian Wu**, Levke Wiehler, Sören Nielsen, Alexander List, Frank Gärtner, Thomas Klassen *Helmut-Schmidt-Universität/ Universität der Bundeswehr Hamburg, Germany*	Plasma-derived novel high-entropy ceramics for environmental barrier coatings **Jaasim Mulla**[1], Vinay Gidla[1], Saiful Wali Khan[2], Konstantinos Konstantinou[1], Amarnath Pasupathi[3], Yugeswaran Subramaniam[3], Sneha Goel[4], Malgorzata Grazyna Makowska[5], Ashish Ganvir[1] *[1]University of Turku, Finland; [2]Indian Institute of Technology Ropar, India; [3]Pondicherry University, India; [4] VTT Technical Research Centre of Finland Ltd, Finland; [5] Paul Scherrer Institute, Switzerland*	Depth-resolved synchrotron µPXRD and ToF-SIMS studies on complex rare-earth perovskite as thermal barrier coating revealing multi-phase evolution upon thermal loading **Yoo Jung Sohn**[1], Chen Shen[2], Christian Schwab[1], Robert Vaßen[1] *[1]Forschungszentrum Jülich GmbH, Germany; [2]Deutsches Elektronen-Synchrotron DESY, Germany*	Rational Design of Ceramic Materials and Microstructure for Integrated Thermal Barrier and Corrosion Resistant Coatings in diverse Industrial Applications **Sivakumar Govindarajan**, Bhavani K, Manojkumar P *ARCI, India*
12:15	Lunch and Poster Session			

POSTER PROGRAM

POSTER SESSION THURSDAY, JUNE 11TH 2026, 12:15 – 14:00

Posters are displayed for the whole conference duration. Best posters will be awarded at the conference dinner.

P1	Experimental analysis of residual stress build-up during cold gas spraying of titanium: in-situ curvature-based analysis vs. incremental hole-drilling **Dhruvit Gabani**[1], Zahra Arabgol[2], Levke Wiehler[2], Alexander List[2], Thomas Klassen[2], Frank Gärtner[2], Jens Gibmeier[1] *[1]Karlsruhe Institute of Technology, Karlsruhe, Germany; [2]Helmut Schmidt University, Hamburg, Germany*
P2	A Digital Twin Framework for Cold Spraying: Real-Time Visualization and AI-Based Prediction **Belahrache Ahmed**[1,2], Alzubi Sereen[1,2], Gaber Jaafar[3], Deng Sihao[1,2], Nirina Raoelison Rija[1,2] *[1]Université Marie et Louis Pasteur, Université de Technologie de Belfort-Montbéliard (UTBM), CNRS, Interdisciplinary Carnot Institute of Burgundy (ICB), UMR 6303, 90010 Belfort Cedex, France; [2]Université Bourgogne Europe, CNRS, Interdisciplinary Carnot Institute of Burgundy (ICB), UMR 6303, 21000 Dijon, France; [3]Université Marie et Louis Pasteur, UTBM, CNRS, institut FEMTO-ST, F-90000 Belfort, France*
P3	Development of a 2D Materials Database for Cold Spray Applications in Renewable Energy Systems Camila Barreneche, **Lorena Betancor-Cazorla**, Alex Mihi, Sergi Dosta *University of Barcelona, Spain*
P4	Influence of Spray Parameters on the Properties of Al_2O_3 Coatings Deposited by APS **Jiří Frank** *Research and Testing Institute Pilsen, Czech Republic (Czechia)*
P5	Influence of Water Vapor on Thermal Barrier Coatings on high Temperature Components in Gas Turbienes **Sara Catalina Pineda Heresi**, Robert Vassen *Forschungszentrum Jülich, Germany*
P6	Integrated Multi-Sensor Monitoring System for Predictive Quality control in Cold Spray Additive Manufacturing **Yaman Sahu**[1], Jussi Larjo[2], Heli Koivuluoto[1] *[1]Materials Science and Environmental Engineering, Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland; [2]Oseir Ltd., Tampere, Finland*
P7	Investigating Segmentation Cracking in Thermal Barrier Coating Manufacturing **Eunike Christine**[1], Emine Bakan[1], Robert Vaßen[2,3] *[1]Siemens Energy Global GmbH & Co. KG, Berlin, Germany; [2]Institute of Energy Materials and Devices, Materials Synthesis and Processing (IMD-2), Forschungszentrum Jülich GmbH, 52425 Jülich, Germany; [3]Institute for Materials, Ruhr-Universität Bochum, Bochum, Germany*
P8	Investigation of bond coat oxidation in hydrogen combustion atmospheres **Mark Alexander Ulherr**, Mario Rudolphi, Mathias Christian Galetz *DECHEMA Forschungsinstitut, Germany*
P9	Microstructure-Informed Phenomenological Life Prediction Modeling for Dense Vertically Cracked (DVC) Thermal Barrier Coatings **Giulia Pedrizzetti**, Rita Bottacchiari, Laura Paglia, Francesco Marra, Giovanni Pulci *Department of Chemical Engineering, Materials, Environment, Sapienza University of Rome, INSTM Reference Laboratory for Engineering of Surface Treatments, Rome, Italy*

P10	Noble metal-free corrosion protection coatings for PEM electrolyzer PTLs **Noah Leuschen**, Tim Sievert, Benedikt Böhm, Robert Vaßen *Forschungszentrum Jülich GmbH, Germany*
P11	Plasma spraying of NiO-YSZ anodes for SOFCs by WSP-H torch **Petr Čapek**, Andrii Rednyk, Tomáš Tesař, Ksenia Illková, Tomáš Chráska, Jakub Minařík, Radek Mušálek, Romain Génois *Institute of Plasma Physics of the Czech Academy of Sciences, Czech Republic (Czechia)*
P12	Process Parameter Optimization for TWAS and Cold Spray of an Al–Fe-Based Alloy **Andrij Krasij**, Marek Vostřák, Šárka Houdková *Research and Testing Institute Plzen, Czech Republic (Czechia)*
P13	RF-ICP Plasma Spraying of Functionally Graded Copper–Tungsten Coatings for Plasma-Facing Applications **Jakub Klecka**[1], Joris Fellinger[2], Frantisek Lukac[1], Jakub Minarik[1], Petr Kralicek[1] *[1]Institute of Plasma Physics of the CAS, Czech Republic (Czechia); [2]Max Planck Institute for Plasma Physics, Greifswald, Germany*
P14	Spray Drying and Characterization of Nano-YAG/SiC Composite Powders for Self-Healing Thermal Barrier Coatings **Ewa Filipkowska**[1,2], Amirhossein Pakseresht[3], Marzena Lachowicz[1,2], Pawel Sokolowski[1,2] *[1]Faculty of Mechanical Engineering, Wrocław University of Science and Technology, Wrocław, Poland; [2]Centre of Materials Science and Metal Forming, Wrocław University of Science and Technology, Wrocław, Poland; [3]FunGlass – Centre for Functional and Surface Functionalized Glass, Alexander Dubček University of Trenčín, Študentská 2, 911 50 Trenčín, Slovakia*
P15	Tribological Performance of Stellite 6 Coatings Deposited by HVOF and Cold Spray Processes **Martin Berka** *Research and Testing Institute Pilsen, Czech Republic (Czechia)*
P16	Influence of the spray trajectories on the residual stress development in cold-sprayed deposits **Zahra Arabgol**[1], Alexander List[1], Frank Gärtner[1], Thomas Klassen[1], Dhruvit Gabani[2], Jens Gibmeier[2] *[1]Helmut Schmidt University, Germany; [2]Karlsruhe Institute of Technology (KIT), Germany*
P17	From Wet Milled Cu–Graphene Powder to 2DMMCs via Cold Spray Additive Manufacturing **Fatemeh Zarei**[1], Amir Ardeshiri Lordejani[1], Hyunjong Lee[2], Siyuan Ruan[3], Davoud Jafari[2], Wessel W. Wits[2,4], Shuo Yin[3], Rocco Lupoi[3], Mario Guagliano[1], Sara Bagherifard[1] *[1]Politecnico di Milano, Italy; [2]University of Twente, Enschede, the Netherlands; [3]Trinity College Dublin, Dublin, Ireland; [4]Royal Netherlands Aerospace Centre (NLR), Marknesse, the Netherlands*
P18	Compilation of different LDA (Laser Doppler Anemometry) measurements and new improvements of PSI (Particle Shape Imaging) diagnostic method **Stephan Zimmermann**, Jochen Schein *Universität der Bundeswehr, Germany*
P19	Calcium phosphates cold sprayed on PEEK substrates: insight on coating construction mechanisms **Clément Deschamps**[1], Pierre Bertrand[2], Maelenn Aufray[1], Ghislaine Bertrand[1] *[1]CIRIMAT, Univ. Toulouse, Toulouse INP, CNRS, Toulouse, France; [2]ICB, Univ. Marie et Louis Pasteur, CNRS, UTBM, Belfort, France*
P20	Towards cost-effective and scalable high-temperature alkaline electrolysis cells **Ismael Quirantes**, Sonja Frerich, Felix Lohmann-Richters, Robert Vaßen *Forschungszentrum Jülich GmbH, Germany*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (2) **Chair: Frank Gärtner**	**TBCS/EBCS (1)** **Chair: Edward J Gilders-leeve V**	**AI AND DATA MINING IN TS** **Chair: Vincent Guipont**	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (2)** **Chair: Leszek Łatka**
14:00 – 14:30	Advancing Low-Pressure Cold Spray for Wear Protection: Deposition Strategies for Hard Materials **Marcin Winnicki**, Aleksandra Małachowska, Anna Gibas *Wrocław University of Science and Technology, Poland*	High Temperature Coating Systems at Siemens Energy: Technologies and Key Challenges **Markus Wysgol** *Siemens Energy Global GmbH & Co KG, Germany*	Building a Comprehensive and Consistent Database of Aerospace Coatings for Plasma Spray Digitalization **Vincent Rat**[1], Lila Randriamananjara[1], Loïse Cao[1], Thierry Chotard[1], Lucille Despres[1], Alain Denoirjean[1], Quentin Dubreuil[1], Simon Goutier[1], André Liberati[1], Olivier Messe[2], Jean-Philippe Poli[4], Céline Ruelle[3], Patrice Valorge[1] *[1]Université of Limoges, CNRS, IRCER, UMR7315, F-87000 Limoges, France; [2]OERLIKON AM Europe GmbH, Germany; [3]SAFRAN Tech, rue des jeunes bois, Châteaufort, CS80112, 78114 Magny-les-Hameaux, France; [4]CEA, LIST, 91191 Gif-sur-Yvette cedex, France*	Alternatives to WC for wear resistance in light of health, global economics and politics Lutz-Michael Berger, **Susan Conze** *Fraunhofer IKTS, Germany*
14:30 – 14:50	In-Situ Micro-Forging Assisted Cold Spray for Aluminum Coating and Repair **Amit Kumar Sharma**[1], Abhinav Anand[2], Jabik Brouwer[1], Ferdy Touwen[1] *[1]Titomic Europe B.V., Netherlands; [2]Department of Mechanical Engineering, Politecnico di Milano, Milano, Italy*	Microengineering Self-Healing Thermal Barrier Coatings: Local Effects to Multiscale Durability **Pawel Sokolowski** *Wroclaw University of Science and Technology, Poland*	An innovative solution for fully automatic determination of the coating quality of thermal-sprayed coatings **Margarita Bambach**[1], Mattia Fedrigo[2], Lutz Fassl[2], Elias Abdel-Sater[2] *[1]Oerlikon Metco, Switzerland; [2]Oerlikon Digital Hub, Germany*	Pretreatment of polymer composite feedstocks for flame spray: influence of surface functionalisation and mechanical mixing on powder properties and spray behaviour **Eero Helmi**, Reza Jafari, Razieh Alikhanifaradonbeh, Essi Sarlin, Heli Koivuluoto *Tampere University, Finland*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (2)	**TBCS/EBCS (1)**	**AI AND DATA MINING IN TS**	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (2)**
14:50 – 15:10	Effect of Surface Mechanical Pre-Hardening on the Abrasive Wear Resistance of APS-Deposited Hadfield Steel Coatings **Aleksandra Malachowska**[1], Paweł Sokołowski[2], Marcin Winnicki[3], Adam Sajbura[4], Thomas Lindner[5] *[1]Wroclaw University of Science and Technology, Poland; [2]Wroclaw University of Science and Technology, Poland; [3]Wroclaw University of Science and Technology, Poland; [4]Wroclaw University of Science and Technology, Poland; [5]Chemnitz University of Technology, Chemnitz*	Probing surface "silicate-phobicity" properties of suspension plasma-sprayed coatings for thermal barrier coating applications. **Emilie Lam**[1,2], Aurélien Sikora[3], Quentin Dubreuil[2], Alice Dolmaire[1], Lucille Despres[2], Aurélie Jankowiak[1], Laura Gemini[3], Alan Keromnes[2] *[1]DMAS, ONERA, Université Paris-Saclay, F-91120 Palaiseau, France; [2]Univ. Limoges, CNRS, IRCER, UMR 7315, F-87000 Limoges, France; [3]Alphanov, Institut d'Optique d'Aquitaine, F-33400 Talence, France*	Unsupervised process window identification in thermal spray operations with the AccurasprayHUB Thomas Garcin, Ahmed Sabsabi, David Georgaris, Jean-Félipe Henri, David Lessard, Wania Jibran, **Jean-Nicolas Robert**, Alexandre Nadeau *Tecnar Automation Ltee, Canada*	RF-ICP plasma spheroidization of YAG ceramic powders for additive manufacturing **Jakub Minařík**[1,2], Tomáš Tesař[1], Radek Mušálek[1], Jan Čížek[1], Jakub Klečka[1], František Lukáč[1] *[1]Institute of Plasma Physics of the Czech Academy of Sciences, Czech Republic (Czechia); [2]Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Czech Republic (Czechia)*
15:10 – 15:30	Effect of HVOF Spray Parameters on the Microstructure and Mechanical Characteristics of High-Entropy Alloy Coatings **Acacio Rincón**[1], Mónica Salazar-Lago[1,2], Georgiy Barykin[1], María Parco[1] *[1]Thermal Spray Group, Industry and Transport Division, TECNALIA, C/ Gabiria 82-84, 20305 Irun, Spain; [2]Departamento de Química Aplicada, Facultad de Química, Universidad del País Vasco/ Euskal Herriko Unibertsitatea (UPV/EHU), 20018 Donostia-San Sebastián, Spain*	The Role of Bondcoat in High-Temperature Oxidation Resistance of Suspension-Sprayed YSZ Topcoats **Filofteia-Laura Toma**[1], Stefan Scheitz[1], Irina Shakhverdova[1], Radosław Swadźba[2], Bogusław Mendala[3], Lucjan Swadźba[3], Eliott Degouilles[4], Vincent Guipont[4], Vincent Maurel[4], Ravisankar Naraparaju[5], Revati Ambekar[5], Lukasz Pyclik[6], Szymon Kucia[6] *[1]Fraunhofer Institute for Material and Beam Technology IWS, Germany; [2]Lukasiewicz Research Network – Upper Silesian Institute of Technology, Poland; [3]Silesian University of Technology, Poland; [4]MINES Paris – PSL , MAT – Centre des Matériaux, France; [5]Institute for Frontier Materials on Earth and in Space, German Aerospace Center (DLR), Germany; [6]Avio Aero Polska, Poland*	Data-Driven Modeling of Deposition Efficiency and Coating Thickness in cold spraying **Belahrache Ahmed**[1,2], Alzubi Sereen[1,2], Gaber Jaafar[3], Deng Sihao[1,2], Nirina Raoelison Rija[1,2] *[1]Université Marie et Louis Pasteur, Université de Technologie de Belfort-Montbéliard (UTBM), CNRS, Interdisciplinary Carnot Institute of Burgundy (ICB), UMR 6303, 90010 Belfort Cedex, France; [2]Université Bourgogne Europe, CNRS, Interdisciplinary Carnot Institute of Burgundy (ICB), UMR 6303, 21000 Dijon, France; [3]Université Marie et Louis Pasteur, UTBM, CNRS, institut FEMTO-ST, F-90000 Belfort, France*	Influence of Bond Layer Type on the Tribological Behavior of Thermally Sprayed Metallic Coatings on CFRP Substrates. **Žaneta Dlouhá** *Research and Testing Institute Pilsen, Czech Republic (Czechia)*
15:30	Coffee Break			

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (3) **Chair: Šárka Houdková**	**TBCS/EBCS (2)** **Chair: Ladislav Čelko**	**THERMODUST WORKSHOP** **Chair: Sergi Dosta**	**COATINGS FOR ENERGY APPLICATIONS (1)** **Chair: Maximilian Grimm**
16:00 – 16:30	Surface Engineering Challenges: Emerging and Missed Opportunities **Christopher C. Berndt** *Swinburne University of Technology, Australia*	Air plasma spraying of thermal-environmental barrier coatings for future ceramic turbine components: fabrication, durability testing, and the formation of a diffusion-bonded interface at the microsecond timescale **Edward J Gildersleeve V** *GE Aerospace Research, United States of America*	From Exfoliation to Printing: Scalable Synthesis and Mechanistic Insights into 2D Metal Matrix Composites_Thermodust (2DMMC) workshop **Apostolos Koutsioukis**[1], Siyuan Ruan[2], Ruben Cabello[3], Sergi Dosta[3], Shuo Yin[2], Rocco Lupoi[2], Valeria Nicolosi[1] *[1]School of Chemistry, CRANN and AMBER Research Centres, Trinity College Dublin, College Green, Dublin D02 PN40, Ireland; [2]Trinity College Dublin, The University of Dublin, Department of Mechanical, Manufacturing & Biomedical Engineering, Dublin, Ireland; [3]SDT, Departament de Ciència de Materials i Química Física, Universitat de Barcelona, C/ Martí i Franqués 1, 08028, Barcelona, Spain*	Impact of Laser texturing to optimize part service life and for catalytic performances **Sophie Costil** *UTBM, France*
16:30 – 16:50	Micro-Forging assisted Cold Spray of Al6061 for near bulk Properties **Sören Nielsen**[1], David Schimbaeck[2], Alexander List[1], Frank Gärtner[1], Thomas Klassen[1] *[1]Helmut-Schmidt-University, University of the Federal Armed Forces Hamburg, Germany; [2]Airbus Defence and Space GmbH, Germany*	CMAS corrosion performance evolution of thermal barrier coatings developed by APS and EBPVD techniques Santhosh Kumar Vaiyapuri[1], Mageshwaran Nagaraj[2], **Arivarasu Moganraj**[2], Andrzej Nowotnik[3], Grazyna Mrowka-Nowotnik[3] *[1]School of Mechanical Engineering (SMEC), Vellore Institute of Technology, Vellore, Tamil Nadu, India – 632014; [2]Centre for Innovative Manufacturing and Research (CIMR), School of Mechanical Engineering (SMEC), Vellore Institute of Technology, Vellore, Tamil Nadu, India – 632014; [3]Department of Material Science, Research and Development Laboratory for Aerospace Materials, Rzeszow University of Technology, al. Powstańców Warszawy 12, 35-959 Rzeszów, Poland*	Plasma-assisted synthesis and processing of 2D nanomaterials **Janez Zavašnik**, Neelakandan M Santhosh, Uroš Cvelbar *Institut "Jožef Stefan", Ljubljana, Slovenia*	Advanced cooling of power electronics for automotive coolers and busbars **Reeti Singh**[1], Jan Kondas[2], Leonhard Holzgassner[3] *[1]Impact Innovations GmbH, Germany; [2]Impact Innovations GmbH, Germany; [3]Impact Innovations GmbH, Germany*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (3)	**TBCS/EBCS (2)**	**THERMODUST WORKSHOP**	**COATINGS FOR ENERGY APPLICATIONS (1)**
16:50 – 17:10	Cold Spray Deposition of Metal–Organic Framework Coatings **Michał Ozga**, Agnieszka Baszczuk, Marcin Winnicki, Marek Jasiorski, Agata Łamacz *Wrocław University of Science and Technology, Poland*	Advantages and Challenges of Axial Plasma Spray Deposition of Environmental Barrier Coatings **Nicholas Curry**[1], Stefan Bjorklund[2], Lisa Pin[3], Shrikant Joshi[2], Madhura Bellippady[2] *[1]Northwest Mettech Corporation, Canada; [2]University West, Sweden; [3]Safran Ceramics, France*	Influence of Powder Preparation Methods and Reinforcement Content on the Deposition Characteristics of Cold Sprayed Additively Manufactured 2D Metal Matrix Composites **Fatemeh Zarei**[1], Amir Ardeshiri Lordejani[1], Hyunjong Lee[2], Siyuan Ruan[3], Apostolos Koutsioukis[3], Camila Barreneche[4], Sergi Dosta[4], Davoud Jafari[2], Valeria Nicolosi[3], Wessel W. Wits[2], Shuo Yin[3], Rocco Lupoi[3], Mario Guagliano[1], Sara Bagherifard[1] *[1]Politecnico di Milano, Italy; [2]University of Twente, Enschede, the Netherlands; [3]Mechanical, Manufacturing & Biomedical Engineering, Trinity College Dublin, Dublin, Ireland; [4]Departament de Ciència de Materials i Química Física, Universitat de Barcelona, Barcelona, Spain*	Comparative Analysis of Cold-Sprayed High-Strength Copper Alloys: Microstructure and Performance of Cupalox vs. CuCrZr **Jan Medricky**, Petr Kralicek, Frantisek Lukac, Jan Cizek *Institute of Plasma Physics of Czech Academy of Sciences, Czech Republic (Czechia)*
17:10 – 17:30	Different crack propagation mechanisms in CSAM Al in air and vacuum **Petr Kralicek**[1,2], Levke Wiehler[3], Ondrej Kovarik[4], Frank Gaertner[3], Jan Cizek[1] *[1]Institute of Plasma Physics of the CAS, Prague, Czech Republic; [2]Faculty of Mechanical Engineering, CTU, Prague, Czech Republic; [3]Helmut Schmidt University, Hamburg, Germany; [4]Faculty of Nuclear Sciences and Physical Engineering, CTU, Prague, Czech Republic*	LASER Shock for Damage Monitoring (LASDAM) of Thermal Barrier Coatings under Sequential Exposure to Water-rich and Air Atmospheres at Temperatures up to 1200 °C **Eliott Degouilles**[1], Vincent Guipont[1], Vincent Maurel[1], Ravisankar Naraparaju[2], Revati Ambekar[2], Filofteia-Laura Toma[3], Stefan Scheitz[3], Radoslaw Swadzba[4], Boguslaw Mendala[5], Lukasz Pyclik[6] *[1]MINES Paris – PSL , MAT – Centre des Matériaux, CNRS UMR 7633, 21 allée des marronniers, 78000 Versailles, France; [2]Institute for Frontier Materials on Earth and in Space, German Aerospace Center (DLR), Linder Hoehe, Cologne, 51170, Germany; [3]Fraunhofer Institute for Material and Beam Technology (IWS), Dresden, Germany; [4]Lukasiewicz Research Network – Upper Silesian Institute of Technology, Poland; [5]Silesian University of Technology, Katowice, Pologne; [6]Avio Aero Polska*	Molecular dynamics analysis of heat transfer across graphene-copper interfaces in additively manufactured composites **L.A. van Goor**[1], W.N. Edeling[2], D. Jafari[1], H. Lee[1], A.V. Lyulin[1,3], W.W. Wits[1,4], B.J. Geurts[1,3] *[1]University of Twente, Enschede, The Netherlands; [2]Centrum Wiskunde & Informatica, Amsterdam, The Netherlands; [3]Eindhoven University of Technology, Eindhoven, The Netherlands; [4]Royal Netherlands Aerospace Centre, Marknesse, The Netherlands*	Fabrication and characterization of BZCY coatings via thermal spray technologies for proton conducting fuel cells **Niklas Derad**, Ebru Gyoktepeliler Akin, Andreas Killinger, Wolfgang Rheinheimer *IKMT, University of Stuttgart, Germany*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	COLD SPRAY AND OTHER KINETIC PROCESSES (3)	**TBCS/EBCS (2)**	**THERMODUST WORKSHOP**	**COATINGS FOR ENERGY APPLICATIONS (1)**
17:30 – 17:50	Aerosol Deposition of Alumina **Andreas Elsenberg**, Camilla Schulze, Frank Gärtner, Thomas Klassen *Helmut Schmidt University Hamburg, Germany*	MCrAlY Bond Coats for TBC Applications via Advanced HVOF-HVAF Spraying **Monica Salazar-Lago**[1,2], Acacio Rincon[1], Georgiy Barykin[1], Javier Cepeda[2], Maria Parco[1] *[1]Thermal Spray Group, Industry and Transport Division, TECNALIA, C/ Gabiria 82-84, 20305 Irun, Spain; [2]Departamento de Química Aplicada, Facultad de Química, Universidad del País Vasco/ Euskal Herriko Unibertsitatea (UPV/EHU), 20018 Donostia-San Sebastián, Spain*	Laser powder bed fusion of graphene-enhanced copper composites **Hyunjong Lee**[1], Davoud Jafari[1], Leonore van Goor[1], Alexey Lyulin[1,2], Bernard J. Geurts[1,2], Wessel W. Wits[1,3] *[1]University of Twente, the Netherlands; [2]TU Eindhoven, the Netherlands; [3]Royal NLR – Netherlands Aerospace Centre, the Netherlands*	Evaluation of Gas Tightness and Phase Stability of APS-Sprayed Gas Diffusion Barrier Coatings on Oxide Ceramic Matrix Composites **Ebru Gyoktepeliler Akin**, Andreas Killinger *IKMT, University of Stuttgart, Germany*
18:00	Transfer to Aachen			
	POSTWAGEN ZUM RATSKELLER, Krämerstraße 2, 52062 Aachen			
20:00	Conference Dinner and Poster Awards			

FRIDAY, JUNE 12TH, 2026

07:45	Transfer from Aachen			
	LECTURE HALL	**STAGE FOYER**	**ROOM 301**	**ROOM 338**
	ADDITIVE MANUFACTURING **Chair: Rocco Lupoi**	**SPRAY PROCESSES** **Chair: Andreas Killinger**	**COBRAIN WORKSHOP** **Chair: Sergi Dosta**	**COATINGS FOR ENERGY APPLICATIONS (2)** **Chair: Mario Rudolphi**
09:00 – 09:30	Innovations in Additive and Layered Manufacturing via Thermal Spray **Sanjay Sampath** *Stony Brook University, United States of America*	Hybrid Plasma Spraying for Improved Functional Properties of the Coatings: Examples and Perspective **Leszek Łatka** *Wrocław University of Science and Technology, Poland*	Recent progress in Integrated Computational Materials Engineering (ICME) development of novel coating materials: the CoBRAIN project **Giovanni Bolelli**[1], Lorenzo Miconi[1], Luca Lusvarghi[1], Stefania Morelli[1], Maria Francesca Bonilauri[1], Alvise Bianchin[2], Enrico Forlin[2], Sergi Dosta[3], Genís Clavé[3], Giulia Gigante[4], Edoardo Rossi[4], Marco Sebastiani[4], Anssi Laukkanen[5], Tomi Suhonen[5], Song Lu[5], Luis Vallejo Rodriguez[5], Marzuk Kamal[6], Stephan Wurst[7], Markus Apel[8], Thomas Bähr[8], Harry Kummer[9] *[1]Dipartimento di Ingegneria "Enzo Ferrari", Università di Modena e Reggio Emilia, Modena, Italy; [2]MBN Nanomaterialia Srl, Carbonera (TV), Italy; [3]Departament de Ciència dels Materials i Química Física, Universitat de Barcelona, Barcelona, Spain; [4]Dipartimento di Ingegneria civile, informatica e delle tecnologie aeronautiche, University of Roma Tre, Roma, Italy; [5]VTT Technical Research Centre of Finland, Espoo, Finland; [6]Aeonx AI, Paris, France; [7]Balance Technology Consulting GmbH, Bremen, Germany; [8]Access e.V., Aachen, Germany; [9]obz innovation gmbh, Bad Krozingen, Germany*	Accelerating our understanding of EBC oxidation in steam environments **Daniel Scotson** *The University of Manchester, United Kingdom*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	ADDITIVE MANUFACTURING	**SPRAY PROCESSES**	**COBRAIN WORKSHOP**	**COATINGS FOR ENERGY APPLICATIONS (2)**
09:30 – 09:50	Fatigue and fracture properties of AM Ti6Al4V alloy **Filip Wick**[1,2], Simone Maffia[3], Tobias Stittgen[3], Ondrej Kovarik[4], Jan Cizek[1] *[1]Institute of Plasma Physics of Czech Academy of Science, Prague, Czech Republic (Czechia); [2]Faculty of Mechanical Engineering, Czech Technical University, Prague, Czech Republic (Czechia); [3]Ponticon GmbH, Wiesbaden, Germany; [4]Faculty of Nuclear Sciences and Physical Engineering, Czech Technical University, Prague, Czech Republic (Czechia)*	Modification of the twin wire arc spray process to improve the processing of low-melting alloys **Eduard Drehband**[1], Ingor Baumann[1], Wolfgang Tillmann[1], Jan Morgenschweis[2] *[1]Institute of Materials Engineering, TU Dortmund University, Leonhard-Euler-Straße 2, D 44227 Dortmund, Germany; [2]ELMA-Tech GmbH, Wisseraue 1, D-51597 Morsbach, Germany*	Multi-Physics Simulations to Elucidate Microstructural Features in Thermal Spray Coatings of HEA's **Markus Apel**[1], Ralf Berger[1], Anssi Laukkanen[2], Lu Song[2], Tomi Suhonen[2] *[1]Access e.V., Germany; [2]Teknologian Tutkimuskeskus VTT Oy, Finland*	Development of corrosion protection coatings for PEM electrolyzers **Tim Sievert**[1], S. Zerressen[2], A. Glüsen[2], S. Uhlenbruck[1], R. Vaßen[1] *[1]Forschungszentrum Jülich, Institute of Energy Materials and Devices (IMD), Materials Synthesis and Processing (IMD-2); [2] Forschungszentrum Jülich, Institute of Energy Technologies (IET), Electrochemical Process Engineering (IET-4)*
09:50 – 10:10	Tailoring Cold Sprayed Al6061 Deposits Through Controlled Surface Temperatures **Alexander List**, Luca Klingler, Jim Merlin Manoo Klutta, Frank Gärtner, Thomas Klassen *Helmut-Schmidt-University, University of the Federal Armed Forces Hamburg, Germany, Germany*	Process-particle-substrate interactions in internal diameter coating using the ID-HVOF spray process **Mark Dennis Kensy**[1], Manuel Pinho Ferreira[1], Ingor Baumann[1], Wolfgang Tillmann[1], Stephan Zimmermann[2], Jochen Schein[2], Jonas Zajaczkowski[1] *[1]Technische Universität Dortmund, Germany; [2]Universität der Bundeswehr Münchenen*	High-Throughput Feedstock Production for Thermal Spray Coatings: HEA and TiC-Based CerMets via Mechanical Alloying in the CoBRAIN Project **Alvise Bianchin** *MBN nanomaterialia srl, Italy*	From Data to Design: A Database-Driven Approach for High-Entropy Alloy Selection in CSP Plants Applications **Lorena Betancor-Cazorla**, Camila Barreneche, Genís Clavé-Batlle, Sergi Dosta *University of Barcelona, Spain*
10:10 – 10:30	Microstructural and mechanical characterisation of additively manufactured 430L steel components by cold spraying **Jiangnan Chen**[1], Alexander List[2], Frank Gaertner[2], Thomas Klassen[2], Max Guendel[1] *[1]Chair of steel structures, Helmut Schmidt Universität Hamburg, Germany; [2]Institute for materials science, Helmut Schmidt Universität Hamburg, Germany*	Off-angle plasma spraying of ceramic coatings onto polymer substrates **Petr Čapek**[1,2], Tomáš Tesař[1], Jan Čížek[1], Radek Mušálek[1] *[1]Institute of Plasma Physics of the Czech Academy of Sciences, Czech Republic (Czechia); [2]Department of Materials Engineering, Faculty of Mechanical Engineering, Czech Technical University in Prague, Czech Republic (Czechia)*	Using innovative software tools for assessment and selection of Thermal Spray Coatings **Stephan Wurst**[1], Marzuk Kamal[2] *[1]BALance Technology Consulting GmbH, Germany; [2]AEONIX AI*	High-Heat Flux Resilience of Low-Pressure Plasma Sprayed Tungsten Coatings for Nuclear Fusion Applications **G. Schmidtmann**[1], A. Litnovsky[1], J. Risch[2], D. Dickes[2], M. Rasinski[1], J. W. Coenen[1,3], B. Böswirth[2], R. Vaßen[1], S. Brezinsek[1], Ch. Linsmeier[1], G. Mauer[1] *[1]Forschungszentrum Jülich GmbH, Germany; [2]Max-Planck-Institut für Plasmaphysik (IPP), Germany; [3]University of Wisconsin; USA*
10:30	Coffee Break			

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	FUNCTIONAL COATINGS AND BIOMATERIALS **Chair: Sanjay Sampath**	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (3)** **Chair: Georg Mauer**	**POST SPRAY TREATMENT** **Chair: Giovanni Bolelli**	**SIMULATION AND MODELING** **Chair: Susan Conze**
11:00 – 11:30	Solution precursor plasma sprayed Ce-doped Bi203 coating with tuned bandgap for enhanced visible-light photocatalytic activities Meiqi Song, Botao Zhang, **Hua Li** *Ningbo Institute of Materials Technology and Engineering, Chinese Academy of Sciences, China, People's Republic of China*	Recent Experiences in DIY Plasmatron Development, Thermal Spray Powders Modification and Electrical Insulation Coatings **Ladislav Čelko**[1], Jozef Kraxner[2], Michaela Remešová[1], Serhii Tkachenko[1], Vendula Bednaříková[1], Monika Michálková[2,3], Amirhossein Pakseresht[2] *[1]Brno University of Technology, Czech Republic (Czechia); [2]Alexander Dubček University of Trenčín, Slovak Republic; [3]Joint Glass Centre of the IIC SAS, TnUAD, FChPT STU, FunGlass, Slovak Republic*	Effect of annealing on mechanical properties and fatigue crack growth rate in cold spray additively manufactured IN718 **Abhinav Anand**[1,2], Ondřej Kovářík[3], Ferdy Touwen[4], Mario Guagliano[1], Jan Cizek[2,5] *[1]Department of Mechanical Engineering, Politecnico di Milano, Italy; [2]Institute of Plasma Physics of the Czech Academy of Sciences, Prague, Czechia; [3]Faculty of Nuclear Science and Physical Engineering, Czech Technical University, Prague, Czechia; [4]Titomic Europe B.V., Heerenveen, Netherlands; [5]Faculty of Mechanical Engineering, Czech Technical University, Prague, Czechia*	Microstructure-Driven Thermal Conductivity Modeling of YSZ Thermal Barrier Coatings **Anusha Sekar**[1], Richard Trache[2], Karl Korner[2], Dusan Galusek[1,3], Amirhossein Pakreseht[1] *[1]Alexander Dubcek University of Trencin FunGlass-Center for Functional and Surface Functionalized Glasses, Slovak Republic; [2]Treibacher Industrie AG, Auer-von-Welsbach-Straße 1, 9330, Althofen, Austria; [3]Joint Glass Centre of the IIC SAS, TnUAD, FChPT STU, Funglass, Študentská 2, 911 50, Trenčín, Slovakia*
11:30 – 11:50	Suspensions formulation and development of doped TiO2 sprayed coatings for visible light water splitting **Ruhama Hasanov**[1], Annegret Potthoff[1], Filofteia-Laura Toma[2], Stefan Scheitz[2] *[1]Fraunhofer Institute for Ceramic Technologies and Systems IKTS, Dresden; [2]Fraunhofer Institute for Material and Beam Technology IWS, Dresden*	Thermal sprayed nickel based coatings as promising electrocatalysts for hydrogen evolution reactions **Yamina Mebdoua**, Khaled Derkaoui, Chakib Talbi, Hadj Lahmar, Chaker Serdani *Center for Development of Advanced Technologies, Algeria*	Structure and properties modification of aerosol cold sprayed MAX phase coatings by powder boronizing **Grzegorz Kubicki**, Wiktoria Krzyżaniak *Łukasiewicz Research Network – Poznań Institute of Technology, 6 Ewarysta Estkowskiego St., Poznan 61-755, Poland*	A Strategy of Modeling of a Low-Pressure Plasma Jet Facility using Direct Simulation Monte Carlo Method **Benjamin Bernard**[1], Aurélie Quet[1], Vincent Genissel[1], Jaouen Lionel[2] *[1]CEA, DAM, Le Ripault, France; [2]KAIROS MODELLING SOLUTIONS, France*
11:50 – 12:10	Development of Alumina-hBN Composite Coatings for High Thermal Conductivity and Electrical Insulation in Electric Vehicle Applications Rahul Jude Alroy[1], Xiong Xiao[2], **Mohit Gupta**[1], Stefan Björklund[1], Shrikant Joshi[1] *[1]University West, Department of Engineering Science, SE-461 86 Trollhättan, Sweden; [2]TRATON AB, SE-151 87 Södertälje, Sweden*	Cooling Rate Dependency of Monoclinic Phase Transformation in APS Thermal Barrier Coating Systems **Mario Rudolphi**[1], Daniel E. Mack[2], Robert Vaßen[2], Timo Brune[3], Mathias Oechsner[3], Mathias C. Galetz[1] *[1]DECHEMA-Forschungsinstitut, Germany; [2]Forschungszentrum Jülich; [3]TU Darmstadt*	Properties Enhancement of FeNi50 Deposits Fabricated by Cold Spray Through Annealing Heat Treatments **Hassan Hammouda**, Sabeur Msolli, Nouredine Fenineche, Hanlin Liao, Sihao Deng *University of Technology of Belfort-Montbéliard, France*	Modeling Fracture Mechanisms in Plasma-Sprayed Thermal Barrier Coatings Using a Discrete Element Approach **Ilyes Bensemmane**[1], Willy Leclerc[1], Nabil Ferguen[2], Mohamed Guessasma[1] *[1]University of Picardy Jules Verne, France; [2]Center for Advanced Technology Development*

	LECTURE HALL	STAGE FOYER	ROOM 301	ROOM 338
	FUNCTIONAL COATINGS AND BIOMATERIALS	**MATERIALS FOR SPRAYING: POWDERS, SUSPENSIONS (3)**	**POST SPRAY TREATMENT**	**SIMULATION AND MODELING**
12:10 – 12:30	Durability of Photocatalytic TiOx-Based Coatings: The Impact of Wear on Functional Performance **Karolina Płatek**[1], Mirosław Szala[2], Irena Jacukowicz-Sobala[3], Jonas Dudik[4,5], Leszek Łatka[1] *[1]Department of Metal Forming, Welding and Metrology, Faculty of Mechanical Engineering, Wroclaw University of Science and Technology, Wroclaw, Poland; [2]Department of Materials Engineering, Faculty of Mechanical Engineering, Lublin University of Technology, ul. Nadbystrzycka 36, 20-618 Lublin, Poland; [3]Department of Chemical Technology, Wroclaw University of Economics and Business, Komandorska St., Wroclaw 53-345, Poland; [4]Czech Academy of Sciences, Institute of Plasma Physics, U Slovanky 2525/1a, 182 00 Prague, Czech Republic; [5]Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering, Trojanova 13, 120 00 Prague, Czech Republic*	Improved TiC reinforced alloys obtained by thermal spray technologies **Sergi Dosta** *Universitat de Barcelona, Spain*		Single-particle cold spray simulation: The influence of rough surfaces on impact process and interfacial bonding **Siyu Chen**[1,2], Sophie Costil[1,2], Sabeur Msolli[1,2] *[1]Université Marie et Louis Pasteur, UTBM, CNRS, Laboratoire Interdisciplinaire Carnot de Bourgogne ICB UMR 6303, 90010 Belfort, France; [2]Université Bourgogne Europe, CNRS, Laboratoire Interdisciplinaire Carnot de Bourgogne ICB UMR 6303, 21000 Dijon, France*
12:30 – 12:45	Closing			
12:45 – 13:45	Lunch			
13:45	Transfer to Düren and Aachen (or tour JTSC)			
14:00	Lab tour JTSC (optional)			
15:00	End of conference and transfer to Düren and Aachen			

PARTNERS

Université de Limoges

DKG Deutsche Keramische Gesellschaft e. V.

Université franco-allemande Deutsch-Französische Hochschule

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European Thermal Sprayers Association ETSA

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FURTHER INFORMATION

http://go.fzj.de/ript2026

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