

57 presentations from 18 countries

To finding co-authors, please refer to the proceedings, total no. includes "onsite" during opening session.

two Industrial Addresses, the Ceremonial lecture & 25 oral presentations

Oral presentations (Vxx) 25 min incl. 5 min discussion, Ceremonial lecture (CL-x) 45 min incl. 10 min discussion

IA-D	Industrial Address on the Continental Taraxagum™ dandelion rubber undertaking	Dr. Andreas Topp Vice President	Continental Reifen Deutschland GmbH D-30419 Hannover Germany
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IA-I	Industrial Address on aerospace and aeroengines providers, greetings from Torino Entrepreneurial Association	Andrea Romiti CEO	APR S.r.l. 10064 Pinerolo Italy
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CL-M	Ceremonial Lecture on Nuclear Fusion	Prof. Dr. Friedrich Wagner former Director	Max-Planck-Institute for Plasma Physics D-80636 München Germany
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V01	Diffusion processes at moving boundaries - recent achievements	Prof. Dr. Paweł Zięba Head of Multilayer Materials Dept. and Photovoltaic Lab.	Polish Academy of Sciences 30-059 Kraków Poland
V02	The Nano Challenge in Aerospace - Materials Under Extreme Conditions	Dr. Dan Roth-Fagaraseanu global specialist material & process innovations	Rolls-Royce Deutschland Ltd. D-15827 Blankenfelde-Mahlow Germany
V03	about Energy Storage at ORNL	Dr. Gabriel Veith Chemical Sciences Div. Senior Research Scientist	Oak Ridge National Laboratory Oak Ridge, TN 37831 USA
V04	Increasing the technical readiness level of innovative oxide dispersion strengthened materials	Dr. Michael Rieth Head of Dpt. Metallic Materials	Karlsruhe Institute of Technology – KIT D-76344 Eggenstein-Leopoldshafen Germany
V05	Additive Manufacturing of 3-inch Valve Parts at Nuclear Safety Class 1	Dr. Chang-Kyu Rhee Director of Nuclear Materials Div., President of KPMI	Korea Atomic Energy Research Institute Daejeon, 34057 Korea
V06	Intelligent thin functional coatings and transforming desert sand into construction material with mechanochemistry milling	Prof. Dr. Gregor Luthe Founder CTO	intelligent thin coatings GmbH D-48599 Gronau Germany
V08	The Ceramics Consolidation parameters and Neural Network Applications	Prof. Dr. Vojislav V. Mitić Director	Institute of Technical Sciences of SASA 11000 Belgrade Serbia
V09	Plasmas Facing Materials for Fusion - from Challenge to Realization	Dr. Jan Willem Coenen Adjunct Prof. UW Madison Proj. Lead. Mat. & Comp. IEK-4	Forschungszentrum Juelich GmbH D-52425 Jülich Germany
V10	Microstructure and mechanical properties of Fe-based metallic glass coatings	Dr. Agnieszka Piekara Wiceprezes/Project Manager	Fundacja NANONET 40-098 Katowice Poland
V11	IR.X infrared-technology as a driver for energy savings	Prof. Dr. Hubert Jäger CEO	SPS Group D-01156 Dresden Germany
V12	High performance coating materials, targets and HKP	Kevin Zhuang President	Gemch Material Technology (Suzhou) Inc. 215214 Suzhou P.R. China
V13	Functional properties of high entropy materials with metallic, ionic and covalent bonding	Prof. Dr. Horst Hahn Executive Director, Nanotechnology INT	Karlsruhe Institute of Technology – KIT D-76344 Eggenstein-Leopoldshafen Germany
V14	Application of Supercapacitors in Automobili Lamborghini	Riccardo Parenti Head of Concept Development	Automobili Lamborghini S.p.A. 40019 Sant'Agata Bolognese Italy Dienstag wann ?
V15	MechanoChemistry - efficient route to sustainable hydrogen storage	M. Sc. Tejas Bopardikar Research Scientist	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany
V16	Micotech - Improved metal surface properties by Mineralization Process	Stanislav Kislov CEO	MicoTech LLC 119313 Moscow Russia
V17	Sustainable suspensions free of dispersants for the production of nanostructured ceramic coatings	M. Sc. Katarzyna Dittrich Research Assistant and Doctoral Student	Niederrhein University of Applied Sciences D- 47805 Krefeld Germany

V18	Contributing advanced technology through precision manufacturing	Ms. Yuko Akabane CEO & President	TDC Corporation Rifu/Sendai 981-0113 Japan
V19	Correlative Raman microscopy: a versatile imaging method for multimodal sample analysis on the sub-micron scale	Dr. Thomas Olschewski Spectroscopy Specialist	WITec GmbH D-89081 Ulm Germany
V20	Understanding the nanoindentation deformation in oxide dispersion strengthened steels	Thomas P. Davis Nuclear Engineering Consultant	Tokamak Energy Ltd OX14 4SD Abingdon United Kingdom
V21	Flexible, Printed and Organic Electronics – Applications, Opportunities, Materials	Dr. Stephan Kirchmeyer MPR Manager	COPT Center/University of Cologne D-50939 Cologne Germany
V22	Opportunities for Industrial Parts of AM Production Using Lightweight Metal Powders	Dr. Min Cheol Kang Executive Director	3D PRO - 3D Printing Research Organization Sungnam City Republic of Korea
V23	Nanosilver system technology for multiple applications	Dipl.-Chem. Helmut Schmid Head of Nanotechnology Special Branch (ES)	Fraunhofer Inst. for Chem. Technology (ICT) D-76327 Pfinztal Germany
V24	Processing of nanostructured industrial magnesium alloys for medical implants in Kazakhstan	Prof. Dr. Talant Ryspaev Vice-Rector	East Kazakhstan State Technical University 070004 Ust-Kamenogorsk Kazakhstan
V25	Making more with less & Concluding Remarks	Prof. Dr. Henning Zoz CEO & President	Zoz Group D-57482 Wenden Germany

28 poster presentations

All posters will be on display during the entire Symposium right in the exhibition area.

P01	Advanced nanoscale characterization of technology relevant ODS steels	Dr. Michael Dürrschnabel Research Scientist	Karlsruhe Institute of Technology - KIT D-76131 Karlsruhe Germany
P02	Biomass meets ball-mill – Concepts for the conversion of agricultural wastes into sustainable raw materials	Dr. Boje Müller Project Leader	Fraunhofer-IME D-48143 Muenster Germany
P03	Additive Manufacturing for Large Structures Using A Blown Powder Plasma Metal Deposition (PMD) Process	Dr. Erich Neubauer Managing Director	RHP-Technology GmbH A-2444 Seibersdorf Austria
P04	A new Generation of Technical Ceramics based on Zirconia Nanopowders	Prof. Dr. Tatyana Konstantinova, Head of Physical Materials Science	Donetsk State University 83050 Donetsk Donetsk Peoples' Republic (Donbass)
P05	Preparation for hot isostatic pressing compaction of mechanically alloyed metal powders, in particular ODS-steel powders	Dipl.-Ing. Rainer Ziegler Technical Assistant	Karlsruhe Institute of Technology - KIT D-76131 Karlsruhe Germany
P06	Desert Sand and Micro Plastic - from waste to resource in one step with High Kinetic Processing	Dr. Birgit Funk Scientific Director	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany
P07	Voronoi Model and Fractals Ceramics Microstructures Designing	Prof. Dr. Vojislav V. Mitić Director	Institute of Technical Sciences of SASA 11000 Belgrade Serbia
P08	Manufacturing, characterization and thermal cycling performance of ODS bond coat in thermal barrier coating systems	Dr. Christoph Vorkötter Research Scientist IEK-1	Forschungszentrum Juelich GmbH D-52425 Jülich Germany
P09	Activation to high performance: ground granulated blastfurnace slag.	Dipl.-Ing. Hans Ulrich Benz Member of Management	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany
P10	Modified nanomaterials for the oil industry	Dr. Valeh Shamilov Head of Technical Sciences	State Oil Company of Azerbaijan Republic AZ 1029 Baku Azerbaijan
P11	Nano-Modified Aluminum Powders for Additive Manufacturing	M. Sc. Steffen Heiland Scientist DMRC	Paderborn University D-33098 Paderborn Germany
P12	HV-Simoloyer® - Medium Kinetic Attritor-like Processing at high flexibility.	Bernd-Arne Weidlich COO, Manufacturing Systems Engineering	Zoz GmbH D-57482 Wenden Germany
P13	Additive Layer Manufacturing - recent developments	Alexander Zoz Assistant to the Board, Member of R&D Team	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany

P14	Hot Isostatic Pressing: customized HIP-capsules	Koray Kuzkaya R&D Division	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany
P15	Advanced PEMFC-Membrane Hot Press (LOCOPEM) for fuelcell manufacturing and multi-purpose	Tom Zoz Coordinator R&D	Zoz GmbH / Zoz Technology Center ZTC D-57462 Olpe Germany
P16	Advanced Surface Protection in the Russian Metal-working Industry	Valentin Kislov Technical Director	MicoTech LLC 248018 Kaluga Russia
P17	Development of novel, high-performance electrocatalysts and catalyst layers for Polymer Electrolyte Membrane Fuel Cells	Dr. Volker Peinecke & Dr. Ivan Radev Dpt. leader & Project manager	ZBT GmbH - the hydrogen and fuel cell center D-47057 Duisburg Germany
P18	Milling parameters & microstructure eval. for ODS nano-particles on IN738 and PM2000 for additive manufacturing	M.Sc. Sara Catalina Pineda Heresi Research Assistant	Ruhr-Universität Bochum D-44780 Bochum Germany
P19	60 meters EIGA bars for producing nanomodified Ti6Al4V by gas atomization (NANOTUN3D European Project)	Dr. Wilfredo García Vargas Head of Development	TLS Technik GmbH & Co Spezialpulver KG D-06749 Bitterfeld-Wolfen Germany
P20	Degradation of binary Mg alloys containing Ca or Zn under simulated physiological conditions.	M. Sc. Mariano Casas Luna CEITEC BUT – researcher, PhD candidate	Brno University of Technology 64999 Brno Czech Republic
P21	Ballistic Impacts Firing Ultra High Performance Concrete, Approximation of Numerical Modeling Methods	Capt. Orlando Gutiérrez Obeso Head of Research	Escuela Militar de Ingenieros EMI 11400 Mexico D.F. Mexico
P22	High Performance Concrete Wall exposed to Blast Explosion, Real Experiments and Numerical Simulation	Prof. Dr. Sebastián Díaz de la Torre, Director	CIITEC-IPN C.P. D.F. 02250 Santa Maria, Azcapotzalco México
P23	Manufacturing of titanium based spherical powders by plasma spraying technique	M.Sc. Marcin Lis Head of Powder Metallurgy Laboratory	Institute of Non-Ferrous Metals 44-100 Gliwice Poland
P24	Characterization of Core-shell SiC nanoparticles for Ti-based alloys processed by additive manufacturing	Prof. María Dolores Marcos Martínez, PhD Full University Professor	Universitat Politècnica de València 46071 València Spain
P25	Fabrication of Advanced Fuel Cladding from the Nanostructured Ferritic Alloys 14YWT and OFRAC for Fast Reactors	Dr. Stuart A. Maloy Advanced Reactor Core Materials Technical Lead Dr. David T. Hoelzer Senior Research Scientist	Los Alamos National Laboratory Los Alamos, NM 87545 USA Oak Ridge National Laboratory Oak Ridge, TN 37831 USA
P26	Micro-, Submicro- or Nanocontainers for self-protecting functional coatings	Dr. Dmitry Grigoriev research group leader	Fraunhofer Institute for Applied Polymer Research IAP D-14476 Potsdam-Golm Germany
P27	Precision abrasives, cermet and 3D-printing powders development at Fujimi	Carl Hunt Technical Manager	Fujimi Incorporated Nagoya 450-0001 Japan
P28	Cost effective fabrication of PM2000 ODS steel	Dr. Esther Simondon Research Scientist	Karlsruhe Institute of Technology – KIT D-76344 Eggenstein-Leopoldshafen Germany

All presentations:

Austria, Azerbaijan, Czech Republic, China, Donetsk PR, Germany, Italy, Japan, Kazakhstan, Korea, Mexico, Netherlands, Poland, Russia, Serbia, Spain, United Kingdom, USA