

OZ-20
11th German-International
Symposium on Nanostructures
 March 1-3, 2020, Wenden/Olpe, Germany

			
OZ-venue in Germany as of OZ-20 Olpe City Hall	OZ-venue in Germany till OZ-18 Wenden townhouse	InnoTruck (OZ-18, OZ-20 requested)	nanoTruck (OZ-12 & OZ-14)



11th German-International
Symposium on Nanostructures

March 1-3, 2020
Wenden/Olpe, Germany



supported by the
European Academy of
Sciences & Arts



Federal Ministry
for Economic Affairs
and Energy

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supported by the
Korean Powder
Metallurgy Institute

Welcome to OZ-20

Dear colleagues and dear ALL,

just 4 more weeks to go for OZ-20, please get ready.

As of January 2020, we are very glad and honoured to announce, that Ms. Yuko Akabane, CEO at TDC Corp. / Japan, joined the organizing committee, also longstanding member Prof. Monte Cassim has moved in position. He is now the President of Shizenkan University at Tokyo.

From now on, the **Foundation for Children & Future** will become a constant part of OZ-exhibition, addressing the responsibility of science and technology towards mankind and all creation.

Since we are now moving to the Cityhall at Olpe, giving us much more space, we like to encourage more relevant industry and institutions, to contribute to the integrated exhibition, also as late arrivals, poster-presentations could still be accepted.

The call for posters, for exhibitors and attendees is open.

Please refer to the **OZ-website**, and register online for attending and/or exhibiting still at virtually zero cost. The list of presentations & exhibitors will be published soon on the website, for the program-setup, will take more time till next and insofar last circular.

[OZ-20: industrial addresses & ceremonial lecture]

opening address on behalf of German Industry	opening address on behalf of Italia Industry	ceremonial lecture on nuclear fusion
		
Dr. Andreas Topp , R&D Responsible for Material and Process at Continental including the Taraxagum™ dandelion tire undertaking.	Andrea Romiti , CEO of APR S.r.l., key aerospace company providing to Pratt & Whitney's adv. F135 engines / 5th gen. F-35 fighter aircraft.	Prof. Dr. Friedrich Wagner , former Director of the Max-Planck-Institute for Plasma Physics; President of the European Physical Society 2007-09.

[OZ-20: keynote presentations]

				
Pawel Zieba , Polish Academy of Sciences, Director, Institute Metallurgy & Materials	Kevin Zhuang , CEO & President of Gemch Material Technology (Suzhou) Co., Ltd	Dr. Gabriel Veith , Senior Research Scientist Oak Ridge National Laboratory	Dr. David Fraboulet , Direction Scientifique CEA-DRT, French Atomic Energy Commission	Prof. Dr. B. S. Murty , Director, Indian Institute of Technology Hyderabad
				
				
Prof. Dr. Talant Ryspaev , Vice-Rector at East Kazakhstan State Technical University	Dr. Michael Rieth , Head of Dept. Metallic Materials, Karlsruhe Inst. of Technology	Hendrik Lötter , Director E-Mobility ZF Friedrichshafen AG	Prof. Dr. Gregor Luthé , CEO Nanobay GmbH	Prof. Dr. Horst Hahn , Director of Nanotechnology INT at Karlsruhe Inst. of Technology
				
				
Dr. Dan Roth-Fagaraseanu , Specialist mat. & process innov. Rolls-Royce Deutschland Ltd.	Riccardo Parenti , Head of Concept Development, Automobili Lamborghini SpA	Prof. Dr. Ferdi Schüth , Director, Max-Planck-Institute for Carbon Research	Prof. Dr. Jan W. Coenen , PL Materials and Components, Forschungszentr. Juelich GmbH	Prof. Dr. Hubert Jäger , CEO SPS Group
				

Scientific highlights are expected e. g. within the global strategic activities in ODS and ODS-NFA materials including the revitalization of PM2000 and lightweight-strengthening, also addressing additive manufacturing routes and MIM. In this context we are happy to announce relevant activities around OZ-20 already now:



On Sunday March 1, 2020 upfront the welcoming reception of OZ-20, the EUREKA-cluster Metallurgy Europe will hold a board-meeting at the Zoz Technology Center (ZTC) at Olpe. A limited number of OZ-20 attendees may find access and right after join the welcoming reception of OZ-20 at the Olpe City Hall nearby.



On Wednesday, March 4, right after OZ-20 and also at ZTC, the Nanotun3D-day for the second time will represent another important step in the dissemination of PM2019, the novel dispersion strengthened Ti-6Al-4V-0,5dps powder/bulk where the nanostructured powder composites are "pre-consolidated" by HIP and HP and subsequently atomized by EIGA to be commercialized in SLM and EBM processing. Present but still preliminary results demonstrate 30% increase of strength and 15% in elongation at the same time ! The consortiums target are commercial powder products particularly for Additive Manufacturing processing.

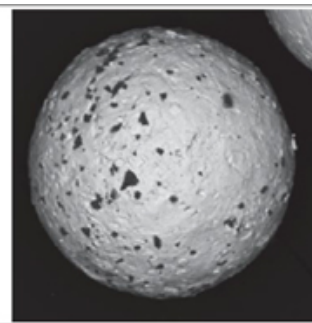


The Nanotun3D project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 685952.

post conference special interest program

Nanotun3D-day

www.nanotun3d.eu



PM2019 is resulting from the ongoing Nanotun3D EU-H2020 funded undertaking (grant agreement 685952), dispersoids (dps) are Y2O3, SiC and core-shell SiC@TiO2. This special interest program including some online processing demonstrations powder (HKP) and bulk (HIC) addresses not only the Nanotun3D industrial advisory board but also all OZ-20 attendees, pre-registry requested.

OZ-philosophy resulting in

- no parallel sessions
 - 2-day event only
 - no conference fee and no exhibitor cost
 - but first class speakers and exhibitors from a small but excellent society
 - with industrial focused overview presentations at leading edge
- might be the key for the success of these annual global brainstorming events.

OZ-20 will be held from March 01-03, 2020 at Olpe in Germany "next door" to Wenden, where OZ-18, OZ-16, OZ-14, OZ-12, OZ-10 and OZ-08 have been organised.

OZ-Symposium was held annually since 2008 alternating between Germany and Japan. The first session-day is always the first Monday in the month of March. The Sunday before is for arrival, registration and get-together and insofar is listed in the schedule. The conference dinner / party [meet'n'greet] will always be on Monday evening. Since OZ-17 in Japan has been skipped, OZ-18 has been the 10th meeting and OZ-20 will be the 11th. In the future, the symposium may alternate annually between Germany and other strategic countries such as Korea, Mexico, Russia, USA, China, and others.

Please block your calendar for OZ-20 and please consider that also and even a small table top expo from your company/from your organization does stimulate discussion and interaction very much !

Once you browse the [OZ-website](#) you will find out, that we are working hard to make your trip to and in Germany very easy and also and again very cost effective which shall be a good platform for a good successful meeting.

Further announcements will be given by frequent updates of this website and also by email-circulars. If you are not already but want to be on the emailing-list, [please click here](#).

Thank You very much and we hope to SEE YOU next March in Germany.

Monte Cassim, Sebastian Díaz, Henning Zoz, Jai Sung Lee, Hans Fecht & Yuko Akabane

Announcement & Call for Papers

abstract submission until December 31, 2019
acceptance of papers by January 15, 2020 and earlier

Why you should come:

The goal of the OZ-Symposium on Nanostructures is:

- to meet people who are working in your niche-fields as given under "Technical Program";
- to gain new ideas and latest information in the field of materials science and process engineering;

in other words – looking over the edge of the plate in a kind of global brainstorming

Technical Program:

OZ-symposia do provide a small but first-class technical program to cover aspects in the growing niche and at the same time super important field of nanostructured materials in applied science and technology - to make more with less - more benefit to creation, with less material:

- High Kinetic Processing (MA, HEM, RM)
- Severe Plastic Deformation, BioProcessing
- Microstructural Design, Nano-Meso-Hybride Structures
- Sintered Metal/Ceramic & Compaction
- MIM, CIM, Spark Plasma Sintering
- Plasma Coating Techniques
- Additive Manufacturing

in “nanostructure” applications such as

- Nanocrystalline & Amorphous Materials
- ODS/NFA, MMC, MCC, CCC
- High Entropy Alloys
- Carbon Nanotube utilization
- M/C-Polymer compounds & WPC
- Solid State Chemistry
- Construction Materials Cement/Concrete/DesertSand
- Fabrication of FuelCell, H₂-Tank & Battery

in the field of advanced materials for industry, life, energy and nature-saving.

Symposium Organizer:

The OZ-20 chief-organizers are Prof. Monte Cassim / Shizenkan, Prof. Sebastian Diaz / CIITEC, Prof. Henning Zoz / Zoz, Prof. Jai Sung Lee / Hanyang, Prof. Hans Fecht / Ulm-IMN and EUREKA and Yuko Akabane / TDC.



Support:

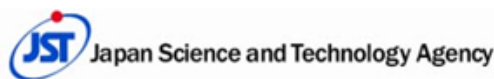
OZ-Symposium today is kindly supported by the European Academy of Sciences and Arts, by the German Federal Ministry of Economic Affairs and Energy as well as the Korean Powder Metallurgy Institute. Also the German Federal Ministry of Education and Research is highly appreciated for making “participation of **nanoTruck** and later **InnoTruck** possible.

OZ-events in the past have been supported by the Ritsumeikan Global Innovation Research Organization (R-GIRO) Project and mainly financed by the Ministry of Education, Culture, Sports, Science and Technology, Japan (MEXT) within the Grant-in-Aid for Scientific Research on Innovative Area in the academic project “Bulk Nanostructured Metals”.

The Ritsumeikan Global Innovation Research Organization (R-GIRO) Project and the Grant-in-Aid for Scientific Research on Innovative Area, “Bulk Nanostructured Metals”, through MEXT, Japan:

<http://www.bnm.mtl.kyoto-u.ac.jp/>

Read more about Ritsumeikan University



Visit us !

For detailed information about location, venue, accommodation, general schedule, registration, proper abstract submission, manuscripts & posters, exhibition, conference guide advertisement, social/cultural program, travel, history review and downloads, please refer to the website.

More information please find here **OZ-website** or call us at +49-2762-97560 and refer to OZ-20

If you don't want to receive further information about OZ-20, please click [here](#).