



OZ-18, 10th International | 10th German-Japanese Symposium on Nanostructures
March 4-6, 2018, Wenden, Germany
InnoTruck des BMBF zu Gast

OZ-18 | Einladung an lokale Schulen/Bildungseinrichtungen

OZ-18 | Aufruf/Einladung an die lokalen Schulen - Zukunft gestalten mit/durch Hochtechnologie

Diesen Aufruf/diese Einladung bitte auch an die lokalen Medien und Kommunen/Verbände weiterleiten - Bitte um Unterstützung ! Der Aufruf wird per E-Mail mit dem aktuellen Mail-Circular zur OZ-18 versendet.

Wir richten uns insbesondere an Physik- und Chemie-Leistungskurse und jene jungen Menschen, die technologisch in diesem Land demnächst Zukunft gestalten wollen/sollen/müssen.

Die Veranstaltung wird politisch eröffnet von Prof. Klaus Töpfer (Umweltminister im Kohl-Kabinett, Direktor des UNO-Umweltprogramms) und technologisch/wirtschaftlich vom Aufsichtsratsvorsitzenden der Solar Applied Materials Corp. aus Taiwan, führender Hersteller von Dünnschichtwerkstoffen für Datenspeicher (hat jeder von uns im Handy/Auto/PC). Es gibt eine Videobotschaft von Bundesministerin Zypries, vom CFO von Lamborghini und vom Gouverneur von Zacatecas/Mexiko. Die Botschafter von Taiwan und Kasachstan und der Bürgermeister von Guadalupe/Mexiko werden ein Grußwort sprechen. Schriftlich liegt eines vom Präsidenten der Fraunhofer-Gesellschaft, vom Chef der Medizintechnikfirma OttoBock und vom EU-Kommissar Oettinger vor.

1.) [BMBF-InnoTruck mit Besichtigung und Workshops] von Sonntag-Dienstag, 4.-6. März

Über den gesamten Veranstaltungszeitraum von Sonntag bis Dienstag steht der InnoTruck des BMBF (Bundesministerium Bildung Forschung) zur Verfügung, 2012+2014 war der BMBF-nanoTruck zu Gast, 2016 existierte kein solches Gefährt. Am Sonntag ist das Fahrzeug (großer LKW mit Ausstellung) für jedermann geöffnet, am Mo und Di können Workshops Elektromobilität, Organische Photovoltaik und Redox-Flow-Batterie für Schülergruppen (10-16P) kostenlos gebucht werden. Details dazu online unter [InnoTruck Options & Schedule](#) oder Tel. 02762-97560 (Zoz HQH).

Per 2016 hatten wir erstmalig 2 Schülergruppen (Gymnasium Auf der Morgenröthe und Hakemickeschule) zu Teilen der Veranstaltung eingeladen und die Rückmeldungen waren durchweg positiv. Das wollen wir daher wiederholen und so weit wie möglich ausweiten, die Kapazitäten sind aber nach wie vor begrenzt:

2.) [Ausstellung und Poster-Präsentationen] am Montag und Dienstag, 5./6. März

Während der Vortragsblöcke der OZ-18 kann jeweils eine Schülergruppe im Wendener Rathaus die Ausstellung und die Poster-Präsentationen besuchen, maximal 20 Personen pro Gruppe, Lehrkörperbegleitung erforderlich, deutschsprachige Begleitung unsererseits, Englisch-Schriftverständnis ist von Vorteil. 33 Poster aus 12 Ländern, 35 Aussteller aus 11 Ländern. Im Detail einzusehen auf der [Website](#). Hier kann man auch den [Tagungsband](#) mit allen Abstracts (Präsentationskurzbeschreibungen) herunterladen.

3.) [Vorträge] Montag und Dienstag, 5./6. März

Während der Vortragsblöcke der OZ-18 kann jeweils eine Schülergruppe im Wendener Rathaus den Vorträgen zuhören. Dazu ist eine der beiden Emporen des Ratssaales gekennzeichnet, maximal 20 Personen pro Gruppe, Lehrkörperbegleitung erforderlich. Ohne gute bis sehr gute Englisch-Kenntnisse ist eine Teilnahme hier sinnlos und daher nicht erwünscht. Gehört werden können 31 Beiträge aus 11 Ländern. Im Detail einzusehen auf der [Website](#). Hier kann man auch den [Tagungsband](#) mit allen Abstracts (Präsentationskurzbeschreibung) herunterladen.

4.) Demonstration nanostrukturierter SuperBeton, Montagabend, 5. März

Im Zoz Technology Center (ZTC) in Olpe, Raiffeisenstraße 17 findet von 18:40-19:50 Uhr eine online-Demonstration/Herstellung von nanostrukturierterm FuturBeton (Brücke Rosenthal im Kreis Olpe, Fassade der Villa ZCS in der Siegener Innenstadt) statt. Hierzu kann 1 Schülergruppen eingeladen werden. Unter Verwendung dieser Technologie wird öffentlich per diesem Jahr in Guadalupe die Statue "Virgin Guadalupe", mit 47m höher als die Freiheitsstatue oder Christ of the Corcovado, errichtet.

Die unter unserem Dach befindliche "Dandelion Rubber Extraction Facility Olpe" von Fraunhofer-IME/Continental kann nach wie vor nicht besichtigt werden, "Löwenzahn-Autoreifen" gibt es aber auf der Ausstellung im Rathaus zu sehen.

5.) Schulchor

Für die Eröffnung am Montag um 10:00 Uhr suchen wir noch einen Schulchor ! Als Lohn winken nur die Ehre und ein Mittagessen im Wendener Rathaus.

Bewerbungen bitte umgehend an E-Mail office@zoz.de oder Tel. 02762-97560

Berücksichtigung erfolgt chronologisch nach Bewerbungseingang. Mehrfachbuchungen nehmen wir gerne an, bestätigen aber zunächst nur eine Einzelbuchung. Alle Teilnehmer müssen mit vollständigem Namen gemeldet werden.

Mit 65 Beiträgen und Ausstellern und Teilnehmern aus in Summe 19 Ländern (Argentina, Austria, Czech Republic, China, Germany, India, Israel, Italy, Japan, Korea, Mexico, Netherlands, Poland, Russian Federation, Serbia, Spain, Sweden, Taiwan, USA) liefern wir wieder abermals ein Aushängeschild Deutschlands in die Welt und erwarten angemessene Kleidung und Auftreten.

Für weitere Informationen zur OZ-18 bitte in dieser E-Mail herunterscrollen. Sollte das wider Erwarten nicht funktionieren, dann bitte diesem LINK folgen: http://oz.zoz-group.de/oz-verteiler/OZ-18_fifth/

Mit besten Grüßen - und wir freuen uns auf Sie und Euch !

Dr. Henning Zoz

If you can't see the content correctly, please click [here](#)

E-Mail-circular 05 | February 2018

OZ-18
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Symposium on Nanostructures
March 4-6, 2018, Wenden, Germany



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supported by the
European Academy of
Sciences & Arts



supported by the
German Federal
Ministry of Economic
Affairs and Energy



supported by the
Korean Powder
Metallurgy Institute

Welcome to OZ-18

Dear colleagues and dear ALL,
the symposium is coming up in about 2 weeks, the program is now fixed and the conference guide may be downloaded [here](#). We will see **65 presentations** from **19 countries**.

*Argentina, Austria, Czech Republic, China, Germany, India, Israel, Italy,
Japan, Korea, Mexico, Netherlands, Poland, Russian Federation, Serbia, Spain,
Sweden, Taiwan, USA*

Up to now we are counting **35 exhibitors** from **11 countries**, a very few more are invited to join.

OZ-website register online table-top expo still at virtually zero cost

We have requested the Taiwan Ambassador H. E. Prof. Shieh to after his address inaugurate the ceremonial lecture given by my Dr. Ma (Solar/Taiwan). On the last moment, the Ambassador of Kazakhstan (high carbon ferro chrome) kindly confirmed and also the President of Guadalupe/Mexico (HPC/UHPC, 47m statue project of the Virgin) will come over bringing a message from the Zacatecas Governor to all attendees.

For more details you may scroll down.

Thank You very much and SEE YOU this early March in Germany

Monte Cassim, Sebastian Diaz, Henning Zoz, Jai Sung Lee, Hans Fecht & Detlef Müller-Wiesner

[OZ-18: addresses, opening, ceremonial lecture]



On society & political support from Germany & Europe we are very much honored to announce addresses from Brigitte Zypries, Federal Minister for Economic Affairs & Energy [[click for video](#)] as well as Günther Oettinger, Commissioner of the European Union [[click for PDF](#)] for Budget & HR and former State Prime Minister of Baden-Wuerttemberg.



On industrial and hightech support we are very proud to announce the address from Prof. Hans Georg Näder, Chairman of the OttoBock Group, a global technology leader in health care products as well as on academic support, the address from Prof. Dr. Reimund Neugebauer, the 10th President of Fraunhofer-Gesellschaft, Europe's largest research organization [[click on photos](#)].

The Welcoming session will start on Monday, March 05, 10:00 am

[OZ-18: opening, ceremonial lecture]



The political opening onsite at Wenden will kindly be guided by Prof. Dr. Klaus Töpfer. Being the Federal Environmental Minister in the Kohl-cabinet, Under Secretary General of the United Nations, General director of the UNO office Nairobi and Executive Director of the United Nations Environment Program, he is the founding director (BMBF) of the Institute for Advanced Sustainability Studies (IASS) at Potsdam, Germany. He has been on the Board of the Holcim Foundation for Sustainable Construction and is an important protagonist for a good relationship between Germany and its eastern neighbors in Eurasia. In a great match to this, we are proud to welcome H. E. Bolat Nussupov, Ambassador of the Republic of Kazakhstan, the country providing qualitatively the best and quantitatively the most High Carbon Ferrochrome, the indispensable resource e. g. for manufacturing ball bearing or tool-steels, almost 8 times larger than Germany at 4-5 times less population.



Initiated by a project with Guadalupe/Zacatecas/Mexico, where nanostructured high performance concrete is used for the 47m high statue of the Virgin of Guadalupe, thus larger than Christ of Corcovado at Rio Janeiro (39.5m) or the Statue of Liberty New York (37m), it will be our honor to welcome the President of Guadalupe Zacatecas, Sen. Enrique Flores Mendoza and appreciate a video message from the Zacatecas Governor H. E. Alejandro Tello Cristerna expressing his invitation to hosting OZ-symposium in 2019 or 2021 at Zacatecas. For the opening-address on behalf of industry, Paolo Poma, CFO and General Manager of Lamborghini, one of the, maybe the global leader in super-sports-cars had initially confirmed. However, due to the overlapping of OZ-18 and Geneva autoshow, he finally had to quit and instead of this sent us a video message with the Aventador in the back [[click for video](#)] stating to meet us soon, thus OZ-19 or 20, next or the next year.



In a brilliant direct interaction on large industry and politics, H. E. Prof. Dr. Ihy-Wey Shieh, Representative of Taiwan in Germany will kindly open the floor to the ceremonial lecture by Dr. Chien-Yung Ma coming over from Taiwan. He is the Chairman of Solar Applied Materials Technology Corp. in Tainan, representing the largest optical data storage thin film manufacturer worldwide. As a global leader in precious metal and rare material refining, we find his products e. g. in all our consumer electronics [click on photos].

Scientific highlights are fixed e. g. within the global strategic activities in ODS and ODS-NFA materials including revitalization of PM2000ff and lightweight-strengthening, within Additive Manufacturing and Nanostructures in Civil Engineering, which all will be reflected in the OZ-18 exhibition as well.

On Sunday March 4, 2018 upfront the welcoming reception of OZ-18, the EUREKA-cluster Metallurgy Europe will hold a board-meeting at Zoz Technology Center (ZTC) at Olpe. A limited number of OZ-18 attendees will find access and right after join the welcoming reception of OZ-18 at the Wenden Townhouse nearby.



On Wednesday, March 7, right after OZ-18, the Nanotun3D-day will represent an 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. The consortiums target covers commercial powder products particularly for Additive Manufacturing processing.



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-18 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-18 will be held from March 04-06, 2016 at Wenden/Olpe in Germany at the same location where OZ-16, OZ-14, OZ-12 and OZ-10 have been organised. OZ-Symposium has been 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 is the 10th meeting. After OZ-18, the symposium is planned to alternate annually between Germany and other strategic countries such as Korea, Mexico, Russia, USA, China, and others.

Please block also your calendar for OZ-18 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 Diaz, Henning Zoz, Jai Sung Lee, Hans Fecht & Detlef Müller-Wiesner

Fifth Announcement

submission closed, programme fully full
a very few poster-presentations and exhibitors may still be added on the late-arrivals list

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 mankind, 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
- Carbon Nanotube utilization
- M/C-Polymer compounds & WPC
- Solid State Chemistry
- Construction Materials Cement/Concrete
- Fabrication of FuelCell, H2-Tank & Battery

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

Session Chairpersons to OZ-18

		Dr. Lorenz Kaiser Division Director R&D Contracts and IPR	Fraunhofer-Gesellschaft - HQ D-80686 München Germany
		Dr. Blanka Lenczowski Senior Expert Materials Technology	Airbus, Group Innovations D-85521 Ottobrunn Germany
		Dr. Sven Muehlenbrock Partner, Head of Risk Advisory	KPMG Luxembourg, Société coopérative L-1855 Luxembourg Grand Duché de Luxembourg
		Prof. Dr. Sergey Kalyuzhnyi Director, Chief Scientist	Russian Corporation of Nanotechnologies Moscow, 117420 Russian Federation
		Dipl.-Chem. Monika Lelonek Managing Partner	SmartMembranes GmbH D-06120 Halle (Saale) Germany
		Dipl.-Ing. Ivica Kolaric Department Manager	Fraunhofer-IPA D-70569 Stuttgart Germany

Symposium Organizers:



The symposium-organizers are Prof. Monte Cassim / Ritsumeikan, Prof. Sebastian Diaz / CIITEC, Prof. Henning Zoz / Zoz, Prof. Jai Sung Lee / Hanyang, Prof. Hans Fecht / Ulm-IMN and EUREKA and Dr. Detlef Müller-Wiesner / Airbus.

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.

Visit us !

More information please find here [OZ-website](#) or call us at +49-2762-97560 and refer to OZ-18

If you don't want to receive further information about OZ-18, please click [here](#).