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## 27-member delegation from Korea visits Zoz at ZTC

Magnesium, lightweight, additive manufacturing (3D printing), complex metal structures  
 Korean Olympic Committee invites Heinz & Zoz to the Winter Games in Pyeongchang 2018

### Wenden/Olpe/Changwon City/ Pyeongchang

Skeleton pilot Katharina Heinz and Prof. Zoz were amazed when an invitation from the Korean Olympic Committee appeared on surprise after a 27-member delegation from Korea visited the Zoz Technology Center (ZTC). The trip will be provided from the 8th of February for the opening ceremony of the Olympic Winter Games in Pyeongchang 2018 until the 18th of February after the completion of the Skeleton competitions. In addition, a reception in Seoul is schedule.

<https://www.pyeongchang2018.com/en/schedule>



The background to all this is the long-standing collaboration between Zoz and Prof. Mincheol Kang, executive director of the Korea Magnesium Technology Research Association. In this respect, Dr. Kang already came to Germany already 4 times and so on 17.11.2017. Also decisive is, that Prof. Zoz many years ago became the first non-Korean member of the Korean Powder Metallurgy Institute (KPMI) and that long-standing friendships connect him to Korea for decades.

Also important is, that a few weeks ago, KPMI decided to support the series of nanostructure symposia that takes place every two years in Germany. In this respect, Prof. Jai Sung Lee, vice-president of the ERICA campus at Hanyang University became a member of the Organizing Committee of the OZ-18 symposium next March and either the OZ-19 or the OZ-21 should take place in Seoul.



Zoz with 3D-PRO travel group from Korea in Frankfurt for "formnext" (trade fair on additive manufacturing)

In any case, Dr. Kang this time came to Germany in his function as the director of the quite new "3D Printing Research Organization" (3D-PRO) accompanied by another 26 members for attending "formnext2017" (trade fair on additive manufacturing) on 15.11.17 at Frankfurt. Since Zoz also was there, one met already for breakfast. On the 16th, the group then stayed overnight at Siegen in order to start 09:00 am next morning at ZTC nearby at Olpe. There, a lecture event on the topic "Fabrication of metal powder and Korea metal 3D printing R&D and industry" was scheduled in order to discuss and explore possible collaborations in the innovative materials sector in combination with additive manufacturing processes.



Dr. Kang (KMTRA & 3D-PRO)

Prof. Zoz (Zoz) and Daniel Graflage (3D-DaS)

Dr. Peter Amborn (HoDforming)

After the welcome by Dr. Kang and Dr. Zoz, the latter introduced the manufacturing and processing of nanostructured powder/bulk-materials, including research on high-performance materials for additive manufacturing (3D printing, SLM, etc.) to the audience. After a coffee break, Dr. Kang presented exactly referring to the topic of the event. Then the participants were introduced to the ZTC-based start-up company 3D-DaS (3D printing) by the founder Daniel Graflage.

In a further short lecture, Dr. Peter Amborn, Managing Director of HoDforming GmbH based in Dusseldorf reported on the subject of "Hydroforming and manufacturing of extremely complex metal structures". A corresponding pilot plant may already be set up at ZTC to the beginning of next year.



attendees and meeting at ZTC

Alexander Zoz explains a Simoloyer<sup>®</sup> CM01 lab-unit

After another break, all participants were invited to visit the ZTC including the nanostructure facilities where only the Fraunhofer dandelion facility of Continental AG had to be excluded. Alexander Zoz, as a tour guide was available for all questions. Afterwards, the temporary sunshine was utilized for a group photo and then lunch was prepared at ZTC. During that, a number of further crucial discussions for Zoz, e. g. with the company Hanwa Techwin (Aerospace & Defense) and Daeguntech (manufacturer of 3D printers) was held.

For Heinz & Zoz, the delegation participation of Donghak Shin, Commissioner of the East Coast Free Economic Zone of the Ministry of Trade, Industry and Energy of Donghae City, turned out to be an amazing coincidence. Donghae is located in Gangwon-do Province which is bordered to the southeast by the province of Pyeongchang. In result, the "Winter Olympics in the neighborhood" are of interest to the Trade Department and thus Mr. Shin is involved. And a conversation between Mrs. Heinz, Mr. Shin and Dr. Kang apparently got the ball rolling to in Korea recommend an invitation to the Olympic Winter Games in Pyeongchang.



Skeletonpilots Katharina Heinz and Sung-bin Yun  
 LG전자 - <https://www.flickr.com/photos/lge/16384043664>

Also decisive is, that currently the skeleton pilot Sung-bin Yun, who was the first Korean to win a skeleton World Cup race in St. Moritz, is giving this sport a high level of popularity in Korea. The paths of Yun and Heinz last time have crossed in Whistler/Canada at the Intercontinental Cup (ICC), where Heinz from 2012-2014 in series achieved the first place.



KMTRA & 3D-PRO @ ZTC

Back to the tour group: around 1:00 pm, once ending the meeting at ZTC, all participants moved to Siegen for a visit at the Zoz site ZCS. Of course during that, the hand-made and homemade "Hüttenmann" was served in the vaulted cellars of the Hagelauer Liqueur Factory at ZCS. The same day the group went back to Frankfurt and the other day back to Seoul/Korea.

