



Technical Colloquium on 22 March 2017

» Introduction of New Nano Materials for Future Device Applications

» Content

In this technical colloquium, new types of nano materials will be introduced for their innovative applications for future devices. The nano materials include large-area single crystalline graphene, copper-replacing graphene cable, and new one dimensional materials. Large-area single crystalline graphene has no grain boundary unlike current polycrystalline graphenes and is expected to give ideal properties for device applications as single crystalline silicon wafer give us an opportunity to develop high performance logic and memory devices. Copper-replacing graphene cable has been developed by continuous spinning process from nano-graphene solutions. The graphene cable has very unique characteristics; 1,000 times higher than copper in area current density (A/cm^2) and also 9 times lighter than copper. These unique characteristics is promising for the development of lighter, small sized, and high current transporting cables which can be used for electric vehicles, city trains, and so on. One dimensional materials will firstly introduced to open community in this colloquium and have characteristics to have polymer chain structure in a molecular level but be comprised of inorganic atoms, which can be compared with the fact that current organic/inorganic polymers in organic chemistry consist of C, Si, Ge, Sn in a backbone chain and C, H in a side chain. The one dimensional materials are synthesized from inorganic ceramics and have ceramic/inorganic properties (non-burnable, free-electron conducting metal, and semiconductor) as well as polymer/organic properties (flexible, soluble, and printable)

» Program

17:00 – 18:00
18:00 - 20:00

- › **Presentation in GWP Seminar Room**
- › **Questions & Discussion**
with finger food & beverages

» Speaker

- › **Mr. Jae Young Choi Ph.D.**
Associate Professor/School of Advanced Materials Science & Engineering,
SKKU Advanced Institute of Nanotechnology, Süd-Korea
Presentation in English language

» Organisational

Location: GWP Seminar Room in Zorneding,
participation free of charge, registration required

The technical colloquia serve as a venue for those interested in material testing. They were initiated by the cooperation of ALLIANZ/AZT and GWP. Join us for discussions with your peers and our experts. We are looking forward to your participation.

Dr. Johannes Stoiber

Managing Director
Allianz Risk Consulting GmbH

Dr. Julius Nickl

Managing Director
GWP Gesellschaft für Werkstoffprüfung mbH



Registration

»Subject

- › **Event-#** **1391 TKQ**
- › **Date** **22 March 2017**
- › **Closing Date** **17 March 2017**
- › **Fee** free of charge
- › **Registration** You will get a confirmation after your registration via fax or email.
- › **Note** A minimum of 7 participants is needed for the colloquium to take place. The maximum number of participants is 40.
Presentation in English language
- › **Location** GWP Gesellschaft für Werkstoffprüfung
GWP academy
Georg-Wimmer-Ring 25, 85604 Zorneding / München
- › **Your Contact** **Birgit Schneider**
T +49 8106 994 112, F +49 8106 994 111, birgit.schneider@gwp.eu
- › **Terms** Subject and program of the colloquium can be changed by the speaker at any time. GWP reserves the right to cancel the event. The terms and conditions of GWP are explicitly recognised with the registration.
- › **Hotels** Hotel Neuwirt, Zorneding, T +49 8106 24260, www.hotelneuwirt.de
Glas's Landhotel, Zorneding, T +49 8106 241 28-0, www.glasls-landhotel.de
- › **Company**
- _____
Company / University Department
- _____
Street / Number / POB
- _____
ZIP / City
- › **Participant**
- _____
Title / First Name / Name
- _____
Phone Mobile
- _____
E-Mail
- _____
Date, Place, Signature