

Manufacturing industries

- 9:20 Functional nanocomposites – From fabrication to function**
Franz Faupel
University of Kiel
- 9:45 Coffee break**
- 10:15 Understanding structure property relations at nanoscale – Big challenges love small dimensions**
Philipp Müller
Material Physics and Analytics, BASF SE, Ludwigshafen
- 10:40 Modern nanometer thin pre-treatment coatings for the protection of multi-metal car bodies**
Ralf Posner
Henkel AG & Co. KGaA, Düsseldorf
- 11:05 SCHOTT NEXTEMA® nano glass-ceramics engineered and designed for extreme conditions**
Falk Gabel
SCHOTT AG, Mainz
- 11:30 Coffee break**

Perspectives

- 11:50 Industry trends from nanostructures to advanced materials**
Jürgen Barwich
BASF SE, Ludwigshafen
- 12:15 Nanosilver – Past and perspectives**
Bernd Günther
Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen
- 12:40 Closing remarks**
- 12:45 Lunch**

With friendly support:



Registration: www.nanomat.de/NanoVision2017

Early registration before August 14th, 2017:

250 € (students 60 €)

Invited Speakers – free of charge

Contact: nanovision@int.kit.edu

Organizing committee:

Jasmin Aghassi (KIT, NanoMat), Jürgen Barwich (BASF SE), Bernd Günther (Fraunhofer IFAM), Nathalie Matter-König (KIT, NanoMat), Christian Punckt (KIT, NanoMat), Volker Zöllmer (Fraunhofer IFAM)

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Science-Industry-Symposium

NanoVision 2017

Nanomaterials in
Harsh Environment

marine engineering
offshore wind energy
manufacturing industries
biomaterials medicine

Location

// **November 14th – 15th, 2017**

// Fraunhofer Institute for
Manufacturing Technology and
Advanced Materials (IFAM)

// Wiener Straße 12
28359 Bremen, Germany



PROGRAM

TUESDAY, NOVEMBER 14TH, 2017

9:30 Arrival & registration

Biomaterials & medicine

10:30 Nanostructured 3D scaffolds for controlled cell adhesion and tissue engineering

Doris Heinrich
Fraunhofer Institute for Silicate Research (ISC),
Würzburg

10:55 Biodegradable Mg implants: material science meets biology

Regine Willumeit-Römer
Helmholtz-Center Geesthacht

11:20 Integrated ultra low temperature and high field environments for characterization of Nanomaterials

Ziad Melhem
Oxford Instruments NanoScience, Abingdon

11:45 Coffee break

Marine engineering, offshore & wind energy

12:15 New materials for tough applications in adhesion, antifouling, and aerospace: "Polyramic and nanoscale sculpturing"

Rainer Adelong
University of Kiel

12:40 Biomimetic surfaces for air trapping under water: Perspectives for drag reduction and antifouling

Thomas Schimmel
Karlsruhe Institute of Technology (KIT)

marine engineering

manufacturing industries

offshore

wind energy

biomaterials

medicine

13:05 Silica in bonding pastes for wind energy applications

Thomas Schlosser
Evonik Resource Efficiency GmbH, Rheinfelden

13:30 Lunch

Manufacturing industries

14:30 PureBau – Photocatalytically activated building materials using particulate titanium dioxide

Thomas Koch
KRONOS INTERNATIONAL, Inc., Leverkusen

14:55 Nanoscaled materials in high-temperature applications

Frank Menzel
Evonik Resource Efficiency GmbH, Hanau

15:20 Nanoparticles from the North: Also for harsh environments

Christoph Gimmler
CAN GmbH, Hamburg

15:45 Coffee break

Biomaterials & medicine

16:15 Requirements on cleaning and sterilization of medical devices for endoscopy

Ralf Staud
KARL STORZ GMBH & Co. KG, Tuttlingen

16:40 Nanoparticles for cancer therapie

Lutz Mädler
University of Bremen

17:05 Chitosan coating of tubelike medical products

Stefan Schulze
Fraunhofer Institute for Microstructure of Materials and Systems (IMWS), Halle

17:30 Poster session

18:30 Dinner

WEDNESDAY, NOVEMBER 15TH, 2017

Marine engineering, offshore & wind energy

8:30 High temperature superconductors for power applications

Michael Wolf
Karlsruhe Institute of Technology (KIT)

8:55 Functionalized nanoparticles for improved performance of fouling release coatings

Dorothea Stübing
Fraunhofer Institute for Manufacturing Technology and Advanced Materials (IFAM), Bremen

