

MAPEX Symposium 2016

Please register online: <http://www.uni-bremen.de/>

Monday, 6 June 2016 – Haus der Wissenschaft

Opening

8:45 – 9:30

Welcome note

Andreas Breiter, Vice Rector for Research and Young Academics

Introduction of MAPEX

Lucio Colombi Ciacchi, MAPEX speaker

Session 1

Materials

9:30-10:10

Nanoporous Gold

Markus Bäumer, Institute of Applied and Physical Chemistry

10:10-10:50

Synthetic cell systems in biomaterials research

Dorothea Brüggemann, Institute for Biophysics

10:50-11:15

Prestressed CFRP loop connections and their applications

Holger Büttemeyer, FIBRE

11:15-11:45

Coffee break

Session 2

Technologies

11:45-12:10

3D Phononic-Fluidic Systems Realized by High-Resolution Additive Manufacturing

Frieder Lucklum, IMSAS

12:10-12:35

Application of innovative metalworking fluids in manufacturing processes

Daniel Meyer, IWT

12:35-13:00

Computational Shear Interferometry: A versatile tool for shape measurement and material analysis

Claas Falldorf, BIAS

13:00-14:30

Lunch break (Haus der Wissenschaft)

Session 3

Methods

14:30-15:10

Electronic and Optical Properties of Two-Dimensional Materials

Tim Wehling, Institute for Theoretical Physics, BCCMS

15:10-15:45

Growth, structure and reactivity of oxide films and nanostructures: insights from in situ microscopy using slow electrons

Jan Ingo Flege, Institute of Solid State Physics

15:45-16:10

Advanced porous Ceramics derived from organic-inorganic Polymers

Huixing Zhang, Advanced Ceramics Group

16:10-16:30:

Coffee and discussion

16:30-18:00

Guided City Tour

19:30-

Dinner (Jürgenshof, self payment)

Tuesday, 7 June 2016 – University of Bremen, LFM seminar room

Opening

8:45 – 9:00 Welcome, overview of program (LCC; HL)

9:15-11:00 Transfer – Projects in cooperation with industry

9:00-9:30 **Region of Innovation - the contribution of academic research to industrial technology development in Bremen**

Uta Bohnebeck

Vicepresident for Research, Bremen City University of Applied Sciences

9:30-10:10 **Carbon fiber reinforced polymers in aircraft manufacturing**

Axel Hermann, FIBRE

Jens Graf, Airbus

10:10-10:45 **Development of damage tolerant advanced steels**

Hans-Werner Zoch, IWT

Winfried Gräfen, Hanomag Lohnhärterei GmbH, Hannover

10:45-11:00 Coffee break

End of program for participants

Panel meetings with the International Advisory Board

11:00-11:45 Visit LFM (O. Riemer)

12:00-13:00 Lunch

International Advisory Board + part of Executive Board + ZARM director

Fallturmspitze

13:00-13:30 Presentation ZARM (ZARM director Marc Avila,)

ZARM 1280

14:00-15:00 Retreat International Advisory Board & Executive Board

TAB R 0.49

15:00-16:30 Retreat International Advisory Board

Science Lounge

16:30-18:00 International Advisory Board & Rectorate & Speaker

TAB R 0.49