MAPEX

A new form of Research Governance at the University of Bremen, with the aim to:

- establish and maintain a network of competencies in the fields of materials science, materials technology, and materials processing
- increase the visibility of the MAPEX Research Landscape
- apply for and participate in third-party funding programs
- promote cooperative research activities of junior scientists
- support an interdisciplinary doctoral education
- cooperatively acquire and share scientific equipment

WORKSHOP

The workshop is designed for all **young scientists (PhD, Post Doc)** from the University of Bremen and the surrounding institutes who want to gain a broader perspective on what is going on in the broad field of materials science. All speakers are early career investigators and members of the MAPEX Center for Materials and Processes. Besides their own research area they will focus on how they are connected to other fields within the MAPEX research landscape. Within the comprehensive workshop program we have reserved extra time for extensive discussions and interaction between the participants, to

- get in touch with peers, build up your own network of experts,
- learn from each other, think outside the box,
- open doors to other experts – become aware of the huge potential for mutual support and benefit you can access on the short way, and
- develop ideas for cooperative research projects.

As an outcome of the workshop and with the help of all participants (speakers and audience) we expect to define and visualize key areas of investigation within the MAPEX research landscape on the one hand and connections (bridges) between the different fields on the other hand.

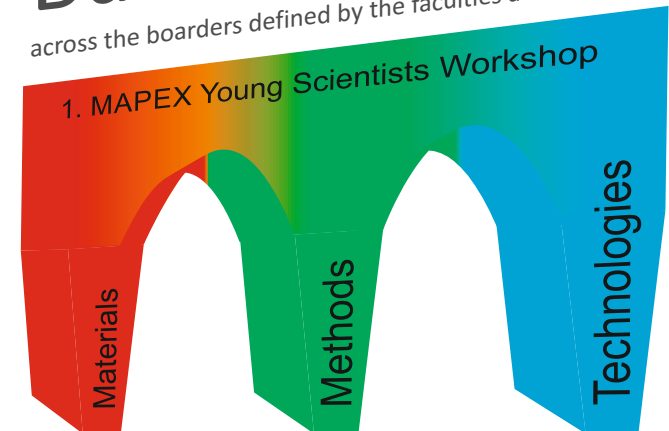## MAPEX Bremen
Material. Process. Excellence.

1st MAPEX Young Scientists Workshop

PROGRAM
October 14th, 2015
LION

Building Bridges
across the boarders defined by the faculties and institutes
1. MAPEX Young Scientists Workshop
Materials   Methods   Technologies

PROGRAM

8:00 Registration

Session 1 (Stephen Kroll)

8:30 **Welcome note from the MAPEX speaker**
Lucio Colombi Ciacchi, FB4, MAPEX

8:40 **Introduction MAPEX, Core Facility**
Lucio Colombi Ciacchi, FB4, MAPEX

9:00 **From single droplets to products: multi-scale processes for novel materials**
Nils Ellendt, FB4, IWT

9:25 **Flexible Herstellung von tribologisch optimierten Mikroumform Werkzeugen**
Iwona Piotrowska, FB3

9:50 **A Material's Point of View on Manufacturing Processes**
Jens Sölter, Daniel Meyer, Lars Schönemann, FB4, IWT

10:15 **Discussion, assignment to Research Landscape**
Stephen Kroll, FB4

10:30 **Coffee break**

Session 2 (Nils Ellendt)

11:00 **Überwachung und Bewertung der Restlebensdauer der Leistungselektronik in Windenergieanlagen**
Holger Groke, FB1

11:25 **Chemical syntesis methods of oxide nanoparticles**
Edit Pál, FB4, IFAM

11:50 **Functionalized ceramics for biotechnological, environmental and energy applications**
Stephen Kroll, FB4

12:15 **Discussion, assignment to Research Landscape**
Nils Ellendt, FB4, IWT

12:30 **Lunch break**

Session 3 (Nils Ellendt)

14:00 **How to build the bridge from nanoscale investigations to macroscale properties**
Susan Köppen, FB4, BCCMS

14:25 **New insights into well-known compounds by modern scattering techniques: Low temperature anharmonicity in $|Na_8I_2|[AlSiO_4]_6$**
Lars Robben, FB2

14:50 **Nanoporous gold: A high performance catalyst with broad applications**
Arne Wittstock, FB2

15:15 **Discussion, assignment to Research Landscape**
Nils Ellendt, FB4, IWT

15:30 **Coffee break**

Session 4 (Lars Schönemann)

16:00 **From Colloids to Capsules: Novel Pathways to Multifunctional Inorganic Nanocapsules**
Michael Maas, FB4

16:25 **Entwicklung von Handhabungstechnologie für Materialien mit biegeweicher Charakteristik**
Jan-Hendrik Ohlendorf, FB4

16:50 **Discussion, assignment to Research Landscape**
Lars Schönemann, FB4, IWT

17:30 **End of workshop**

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More Information

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Registration

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