

01
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NEWSletter



II MAPEX CENTER FOR MATERIALS AND PROCESSES

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

MATERIALS

Hybrid materials
Metals
Porous materials ◊ ○
Nanomaterials
Semiconductors

TECHNOLOGIES

Manufacturing engineering ★ ☆ ● ▲
Materials engineering ○ ◆
Process engineering ▲
Energy-related technologies
Photonics

METHODS

Process modelling
Material characterization
Material synthesis
Material modelling
System integration

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

- ▲ Priority Programmes (SPP)
- ◆ Research Training Groups (GRK)
- ☆ Collaborative Research Centres (SFB)
- Research Units (FOR)

Research Grants

The MAPEX Center for Materials and Processes invites international PhD candidates to apply for short-term research grants to spend one week to one month at the University of Bremen within the group of a MAPEX member. Proposals from incoming PhD students can be submitted at any time.

MAPEX PhD candidates can apply for outgoing grants to visit international research institutions. Next collection date for outgoing proposals: 31 May 2016. A list of funded projects is available online.

www.uni-bremen.de/mapex
 > [MAPEX Funding](#) > [Research Grant](#)

Workshop funding

MAPEX can fund scientific workshops organized by its members and taking place in Bremen with up to 3000 Euro. Prerequisite is a strong connection to the MAPEX research landscape.

www.uni-bremen.de/mapex
 > [MAPEX Funding](#) > [Workshop Funding](#)

Monthly Lunch Meeting

A monthly *jour fixe* of the MAPEX Early Career Investigators (ECI) is the informal lunch meeting, taking place every last Tuesday in the month. All interested scientists are invited to get in touch with peers from different faculties and institutes and build up their own network of experts. You don't have to be a MAPEX member to join the meeting and we explicitly also invite PhD students. We will reserve a table in the Mensa (close to the main entrance) and put up a MAPEX sign on the table. There is no official program; ever-

one pays for his/her own food and drinks.

*Upcoming dates are: 29 March 2016,
 26 April 2016*

2nd MAPEX Young Scientist Workshop

The second MAPEX Young Scientist Workshop will take place on 11 April 2016. The program offers three talks by MAPEX Early Career Investigators and short-lightning presentations by other participants followed by a poster session. A highlight will be the plenary lecture by Fabio La Mantia, a newly appointed professor of the MAPEX network. The day closes with a social evening event.

www.uni-bremen.de/mapex/events
 > [Workshops](#)

Child care during MAPEX events

To facilitate the participation of young parents at MAPEX events that last until late afternoon, we offer a child-care service, please contact Hanna Lührs for more information.

MAPEX Instrument Database

The MAPEX Instrument Database is online now! It is aimed at facilitating your analytic work by offering a comprehensive list of analytic infrastructure that is available within the groups of MAPEX members. You can browse the database using different categories or perform a keyword search.

In this newsletter we will regularly inform you on the latest additions to the database and present selected methods with examples of scientific applications.

www.uni-bremen.de/mapex
 > [Instrument Database](#)

|| 1ST MAPEX YOUNG SCIENTIST WORKSHOP – BUILDING BRIDGES

Building bridges across the borders defined by the faculties and institutes.

For the 1st MAPEX Young Scientist Workshop 33 young scientists met in the LION building on 14 October 2015 invited by the MAPEX Early Career Investigators to

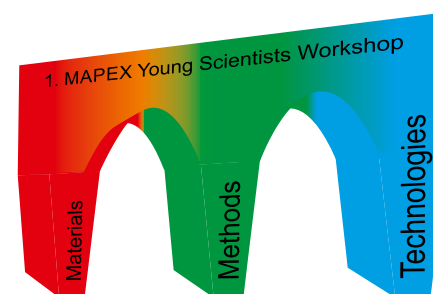
- build bridges across the borders defined by faculties and institutes,
- get an overview about their research topics,
- get to know who offers which expertise and measuring techniques,
- find new cooperation partners,
- build up a network of experts.

Some comments of the participants:

„The informal get together and talks gave an excellent overview on the research activity of the MAPEX investigators.“

„It was highly motivating to find synergy effects.“

„It is a modern way to interconnect the research at our university and share ideas and methods in committed cooperation. It makes me proud to be part of it.“



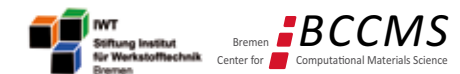
|| MAPEX NEIGHBOR VISITS

Get to know what the scientists next door really do....

The MAPEX Early Career Investigators regularly invite all interested students and employees to join them for a short visit (60 minutes) to one of the MAPEX groups/institutes. After a brief introduction, usually there is the opportunity to visit the laboratories and workshops and get insight into the daily work of the MAPEX scientists.

Fascinating insights into the world of micro machining and metalworking fluids were the focus of the first neighbor visit, where Lars Schönemann and Daniel Meyer introduced the department of Manufacturing Technologies and the Laboratory for Precision Machining at the IWT (Stiftung Institut Werkstofftechnik). Melt Atomization and Spray Forming is one focus area within the central research division Process and Chemical Engineering at the IWT where Nils Ellendt offered the second neighbor visit, introducing the visitors into the enormous effort and impressive machines that are necessary for the generation of metal powders and deposition processes.

What do Hybrid Materials Interfaces (HMI) look like? Susan Köppen took all participants on a virtual tour into the world of atoms and molecules. In a comprehensive overview she explained the different methods and questions that are used and addressed within the Bremen Center for Computational Material Science (BCCMS). The center is dedicated to material and process simulation across multiple size and time scales.



II MAPEX CALENDAR

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|-------------------------------------|---|
| 29 March 2016 12:30 Mensa | MAPEX Lunch Meeting for Young Scientists |
| 11 April 2016 | 2 nd MAPEX Young Scientist Workshop www.uni-bremen.de/mapex > events > workshops |
| 26 April 2016 12:30 Mensa | MAPEX Lunch Meeting for Young Scientists |
| 31 Mai 2016 12:30 Mensa | MAPEX Lunch Meeting for Young Scientists |
| 6 + 7 June 2016 | MAPEX Workshop Haus der Wissenschaft and Uni Bremen |

More events, seminars, and talks related to MAPEX topics:

www.uni-bremen.de/mapex > events > calendar



www.uni-bremen.de/mapex

II IMPRINT/CONTACT DETAILS

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Link to the online version of the newsletter: www.uni-bremen.de/mapex > news > newsletter

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