

MAPEX COMMUNITY

People

II THE NEWLY ELECTED MAPEX EXECUTIVE BOARD

The MAPEX Executive Board is the central decision making committee of MAPEX and is composed of ten Principal Investigators and two Early Career Investigators. During the general assembly (31st October 2016) the twelve members were (re-)elected. We would like to thank all members of the first MAPEX Executive Board (mandate 2014-2016, see newsletter 02, May 2016) for their engagement and active participation during the foundation phase of MAPEX.

The following eight members were re-elected and have a mandate for two or three (*) years. Their profiles were published in newsletter 02 (May 2016).



- Prof. Dr. Marcus Bäumer
- Prof. Dr. rer. nat. Ralf B. Bergmann*
- Prof. Dr.-Ing. Lucio Colombi Ciacchi*
- Dr.-Ing. Nils Ellendt*
- Prof. Dr. Thorsten M. Gesing
- Prof. Dr. Walter Lang*
- Prof. Dr.-Ing. Lutz Mädler
- Prof. Dr.-Ing. Hans-Werner Zoch

After their re-election Lucio Colombi Ciacchi and Ralf B. Bergmann were confirmed as speaker and vice-speaker of MAPEX during the first meeting of the Executive Board.

**Dr.-Ing. Gerrit Dumstorff**

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Affiliations

- Faculty of Physics / Electrical Engineering
- Institute for Microsensors, -actuators and -systems (IMSAS)

Research Landscape: System Integration.

Research Focus: Sensing materials: Integrating sensors in different materials, especially metals, by using microsystem and printing technologies; investigations on the effect of sensor integration regarding the macroscopic behavior; characterization of manufacturing processes with material integrated sensors, additive manufacturing processes to build up printed, three dimensional sensors.

**Prof. Dr.-Ing. Kurosch Rezwani**

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Affiliations

- Faculty of Production Engineering
- Chair: Advanced Ceramics
- Speaker of DFG Research Training Group 1860 MIMENIMA

Research Landscape: Hybrid materials, Porous Materials, Nanomaterials, Materials synthesis, Materials modelling, Materials engineering.

Research Focus: We investigate, develop, and engineer advanced ceramic materials for applications in the areas of biomaterials engineering, environmental engineering, energy harvesting devices, and aerospace. Our group's current research interests focus on, Novel Processing and Shaping Routes, Bioceramics, Precursor derived Ceramics (Ceramers), Advanced Composites.

**Prof. Dr. Anne Staubit***

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Affiliations

- Faculty of Biology / Chemistry
- Institute of Organic and Analytical Chemistry
- Organic Functional Materials Group

Research Landscape: Soft and Hybrid Materials, Semiconductors, Materials Characterization, Materials Synthesis.

Research Focus: The group is concerned with the development of synthetic methods for molecular switches that enable to introduce selective responsiveness to stimuli into polymers and composites and small molecules. Such stimuli can be light, mechanical force or heat. The second thrust of research deals with the incorporation of unusual main group elements into organic semiconductors and the preparation of inorganic analogs of organic polymers. This research necessitates the development of new synthetic methodology and often leads to the discovery of unknown reactivity patterns of functional groups.

**Prof. Dr. Tim Wehling**

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Affiliations

- Faculty of Physics / Electrical Engineering
- Institute for Theoretical Physics
- Chair: Electronic structure and correlated nanosystems
- Bremen Center for Computational Materials Science
- Co-Speaker of Research Training Group 2247: QM³

Research Landscape: Materials Modeling, Nanomaterials, Semiconductors, Metals.

Research Focus: Theory and modelling of nanostructured materials and electronic correlation effects. Research topics include interface, inhomogeneity and adsorbate effects in low dimensional materials, magnetic nanostructures, surfaces and strongly correlated electron systems, where we study structural, electronic, optical and magnetic properties. Our research includes the development of quantum many-body techniques and their application in contexts like 2d materials, metals or semiconductors.