

## Programme Committee

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21.01.2016

## General Information

**Venue**  
**Winter School 2016**  
**and**  
**Euro Bio-inspired 2016**  
**Kongresshotel Potsdam**  
Am Luftschiffhafen 1  
14471 Potsdam



**Euro Bio-inspired 2016**  
International School and  
Conference on Biological Materials  
Science

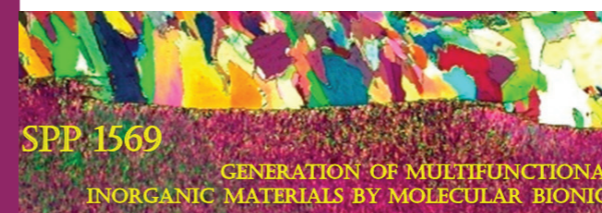
**22 - 25 February 2016**  
Potsdam, Germany  
[www.bioinspired.inventum.de](http://www.bioinspired.inventum.de)

**Conference Office**  
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## SPP1569 Winter School 2016

**22 February 2016**  
Kongresshotel  
Potsdam, Germany

### Programme



## About the SPP1569

The conference Euro Bio-inspired 2016 is accompanied by a Winter School of the Priority Program 1569 (SPP 1569) supported by the German Science Foundation (DFG). In addition to this satellite meeting also contributions of the SPP 1569 are included into the poster sessions of the conference.

The key objective of the SPP 1569 is to explore the principles of gene-regulated biomineralization for the production of multifunctional inorganic materials. The scientific aim is the application of biomolecules for the in vitro generation of inorganic functional materials as well as the biomineralization of these materials by living organisms in vivo. By using this route, materials with an enhanced property spectrum, which is not available via conventional processing techniques, shall be gained at ambient conditions by molecular architecture. The main objective is to generate materials with improved properties and novel property combinations by the conjunction of inorganic and organic components.



**Chair SPP 1569**  
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# Programme Winter School

Room	Seminarroom
09:00	<b>Welcome Reception</b> J. Bill, University of Stuttgart (Germany)
09:10	<b>Genetically optimized Tobacco mosaic viruses as scaffold for the in vitro generation of semiconductor bio/metal-oxide nanostructured architectures</b> Bill BI 469/19-3, Eiben EI 901/1-3, Schneider 375/27-3; Presentation will be held by P. Atanasova, S. Sanctis and A. Schneider
09:30	<b>High-resolution low-voltage TEM for imaging the process of mineralization at the TMV/inorganic interface: Towards understanding the mechanical properties of bio/inorganic multilayer systems</b> Bill BI 469/25-1, Eiben EI 901/2-1, Kaiser KA 1295/25-1, Wege WE 4220/3-1, Presentation will be held by Ute Kaiser
09:50	<b>Diatom Nanobiotechnology: Design Principles for Enhancing the Catalytic Activities of Enzymes and Metal Nanoparticles immobilized on Diatom Biosilica</b> Brunner BR 1278/25-3, Kröger KR 1853/3-3, Presentation will be held by Eike Brunner
10:10	<b>Coffee Break</b>

Room	Seminarroom
10:40	<b>Fabrication of multishaped magnetic structures via a knowledge-based biomimetic approach supported by atomistic modeling – Phase 3</b> Colombi Ciacchi CO 1043/4-3, Treccani TR 978/5-3, Presentation will be held by Lucio Colombi Ciacchi
11:00	<b>Multifunctional Layered Magnetite Composites</b> Cölfen CO 194/8-3, Faivre FA 835/5-3, Pipich PI 1013/1-3, Zahn ZA 420/8-3, Presentation will be held by Christain Debus
11:20	<b>Bio-inorganic hybrid membranes with nanoporosity control by genetically engineered viral seal rings</b> Gliemann GL 709/1-3, Marti MA 1297/13-3, Wege WE 4220/2-3. Presentation will be held by Klara Altinoprak (Stuttgart) and Farid Farajollahi (Ulm)
11:40	<b>SpiderMAEN: Recombinant Spider Silk-based Hybrid Materials for Advanced Energy Technology</b> Scheibel SCHE 603/15-2, Taubert TA 571/11-2, Presentation will be held by Andreas Taubert
12:00	<b>Generation of nano-magnetic hybrid materials by genetic engineering and functionalization of bacterial magnetosomes</b> SCHU1080/15-3, Presentation will be held by Frank Mickoleit
12:20	<b>Lunch Break</b>
13:00	<b>Opening Adress Euro Bio-inspired</b>

# Project Members SPP1569

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