



10. Workshop des Projekthaus NanoBioMater mit Treffen des Leitungsgremiums und Advisory-Boards

Sprecher: Prof. Dr. Sabine Laschat **Koordinatoren:** Prof. Dr. Christina Wege, Prof. Dr. Günter Tovar
Leitungsgremium: Prof. Dr. Joachim Bill, Prof. Dr. Franz Brümmer, Prof. Dr. Holger Jeske, Prof. Dr. Sabine Ludwigs, Prof. Dr. Ingrid Weiß
Teamleiter: Dr. Alexander Southan, Dr. Sabine Eiben, Dr. Dirk Rothenstein

Datum: 07. Dezember 2016

Workshop

Uhrzeit 10:30 - 12:30 Uhr

Raum: Raum 5A/B (5. Stock) am Fraunhofer IGB, Nobelstrasse 12, 70569 Stuttgart

Programm

- 10:30 – 10:35 Uhr **Begrüßung**
Prof. Dr. Christina Wege und Prof. Dr. Günter Tovar
Koordinatoren des Projekthaus NanoBioMater
- 10:35 – 12:30 Uhr **Kurzvorträge zu den Postern mit anschließender Postersession**
- Details siehe folgende Seiten -
- 12:30 – 13:00 Uhr **Mittagssnack**
- 13:00 – 16:30 Uhr **Treffen des Leitungsgremiums mit Advisory-Board**



Kurzvorträge und Posterbeiträge:

1. ***Tough bioinspired thin films – downscaling fracture mechanics of nacre***

Presenting author: **Stefan Kilper** (University of Stuttgart, Institute for Materials Science)

Co-authors: Dirk Rothenstein, Sandra Facey, Pouya Moghimian, Vesna Srot, Peter A. van Aken, Bernhard Hauer, and Joachim Bill

2. ***Hydrogel Preparation via photo-triggered Thiol-Michael reactions***

Presenting author: **Tobias Götz** (University of Stuttgart, Institute of Interfacial Process Engineering and Plasma Technology)

Co-authors: Claudia Toppel, Alexander Southan

3. ***Novel bio-inorganic hybrid structures based on tobacco mosaic virus***

Presenting author: **Klara Altintoprak** (University of Stuttgart, Institute of Biomaterials and biomolecular Systems)

Co-authors: Axel Seidenstücker, Alexander Welle, Farid Farajollahi, Frank Mickoleit, Dirk Schüler, Hartmut Gliemann, Alfred Plettl, Othmar Marti, Christina Wege

4. ***Verzweigte Nukleoprotein-Nanostrukturen als Bausteine für poröse biofunktionale Materialien***

Presenting author: **Nana L. Wenz** (University of Stuttgart, Institute of Biomaterials and biomolecular Systems)

Co-authors: Matthäus Kalinowski, Sylwia Piasecka, Clemens Richert, Christina Wege

5. ***The influence of peptide-equipped tobacco mosaic virus on CaCO₃ mineralization***

Presenting author: **Elke Evgrafov** (University of Stuttgart, Institute for Materials Science)

Co-authors: Fania Geiger, Dirk Rothenstein

6. ***Synthesis of novel cross-linkers for bio-inspired hydrogels***

Presenting author: **Nicole Schädel** (University of Stuttgart, Institute for Organic Chemistry)

Co-authors: Maike Martini, Patricia Hegger, Burcu B. Minsky, Julia Kupka, Markus Mateescu, Heike Böhm, Sabine Laschat

7. ***Learning from Sea Shells – Bio-Inspired Approaches Toward Mesoscale Architectures in Functional Spinel Oxides***

Presenting author: **Anna Schenk** (University of Stuttgart, Institute for Polymer Chemistry)

8. ***Engineered viral nano-carriers for antibody-mediated immobilization of biomolecules***

Presenting author: **Claudia Koch** (University of Stuttgart, Institute of Biomaterials and biomolecular Systems)

Co-authors: Anke Liedek, Nora Schmidt, Yuri Gleba, Christina Wege



9. *Biobased And Synthetic Polymer-Nanoparticles As Functional Materials For Wastewater Treatment And Sensing*

Presenting author: **Benjamin Riegger** (University of Stuttgart, Institute of Interfacial Process Engineering and Plasma Technology)

Co-authors: Günter E. M. Tovar, Monika Bach

10. *Surface functionalization of Hydrogel Foams for Additive Manufacturing*

Presenting author: **Karishma K. Adatia** (University of Stuttgart, Institute of Interfacial Process Engineering and Plasma Technology)

Co-authors: Alexander Southan, Günter E. M. Tovar

11. *Physically and chemically gelling hydrogel formulations based on poly(ethylene glycol) diacrylate and Ploxamer 407*

Presenting author: **Alexander Southan** (University of Stuttgart, Institute of Interfacial Process Engineering and Plasma Technology)

Co-authors: Felix Markus, Felix Dreher, Sabine Laschat, Stefan Baudis, Günter E.M. Tovar

12. *Tobacco mosaic virus/ poly(ethylene glycol) diacrylate hydrogels*

Presenting author: **S. Eiben** (University of Stuttgart, Institute of Biomaterials and biomolecular Systems)

Co-authors: S. Kleiser, T. Lang, G. Tovar, C. Wege, M. Schweikert, A. Southan

13. *Peptide-controlled Biomineralization*

Presenting author: **D. Rothenstein** (University of Stuttgart, Institute for Materials Science)

Co-authors: S. Borg, D. Schüler, J. Bill

14. *Investigating Biobased Materials*

Presenting author: **Marie-Louise Lemloh** (University of Stuttgart, Institute of Biomaterials and biomolecular Systems)

Co-authors: M.-L. Lemloh, M. Schweikert, I.M. Weiss

15. *Nanofiber-based Filaments of M13 Bacteriophages and SnOx*

Presenting author: **Katharina Wieggers** (University of Stuttgart, Institute for Materials Science)

Co-authors: K. Hildenbrandt, J. Link, T. Krauss, S.Kilper, T. Jahnke, D. Rothenstein, Z. Burghard, J. Bill

16. *Deposition and Characterization of Zr-based Materials on Biotemplates*

Presenting author: **Rahel Eisele** (University of Stuttgart, Institute for Materials Science)

Co-authors: Dirk Rothenstein, Sandra J. Facey, Bernhard Hauer, Joachim Bill