

# 6<sup>th</sup> International School and Conference on Biological Materials Science

## BioINSP 2022

21 - 24 March 2022

Hybrid Conference - Kostenz & Online

[dgm.de/bioinsp](https://dgm.de/bioinsp)

### DEAR BIOINSPIRED MATERIALS COMMUNITY,

We cordially invite you to join and contribute to the 6<sup>th</sup> Bioinspired Materials 2022 Conference on the design of functional materials and systems inspired by principles found in living nature. The conference will be held as a hybrid conference from 21 – 24 March 2022 in Kostenz monastery, Bavaria.

We offer a forum for scientists from various fields, including biology, chemistry, materials science and engineering, physics, and medicine, to discuss current cutting-edge research, identify future research directions in bioinspired materials, and provide an excellent platform for networking and scientific research exchange.

### TOPICS

- Bioinspired/biomimetic materials (inanimate/animate)
- Hierarchical materials and structures (inorganic/organic)
- Complex-shaped biological materials
- Biomineralisation inspired materials and systems
- Autonomous functional materials and systems
- Functional and mechanical materials properties
- Interaction of bioinspired materials with living environments
- Artificial intelligence and bioinspired materials
- Biohybrid materials systems

We are looking forward to your contribution and participation.



**Prof. Dr. Cordt Zollfrank,**  
Chair of Conference,  
Technische Universität München, DE

**Prof. Dr. Christine Selhuber-Unkel,**  
Co-Chair of the Conference,  
University of Heidelberg, DE

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#### Conference Office

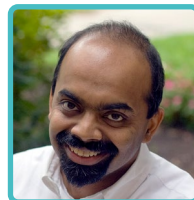
Deutsche Gesellschaft für Materialkunde e.V.  
Marie-Curie-Straße 11-17  
53757 Sankt Augustin, Germany  
T +49 (0) 69 75306 750  
[bioinspired@dgm.de](mailto:bioinspired@dgm.de)

### PLENARY SPEAKERS



**Learning from cicadas: Bioinspired functional structures against multiresistent bacteria forward and inverse problems**

**Prof. Dr. Ille C. Gebeshuber**  
TU Wien, AT



**Shape in the digital age: forward and inverse problems**

**Prof. L. Mahadevan**  
Harvard University Cambridge,  
Massachusetts, US

### CONFERENCE VENUE

The conference house Kostenz monastery is supported by the Barmherzigen Brüdern in Bavaria and offers ideal conditions for seminars and conferences as well as for recreation guests.

The house, which is more than 100 years old and a listed building, is situated in a secluded location with a fantastic view of the climatic health resort of Sankt Englmar. It has two houses with a total of 96 beds and a restaurant. Furthermore, there are several „Stüberl“ in the monastery for a cozy get-together in the evening as well as a beer garden.



Conference House Kostenz

## INVITED TALKS



### Bio-Inspired Amphiphilic Polymer Materials and Nanosystems

**Prof. Nico Bruns**

Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, UK



### Learning from Nature: Lightweight, Strong & Tough Materials Inspired from Nature and Optimized by A.I.

**Po-Yu Chen**

National Tsing Hua University Materials Science & Technology, Hsinchu City, TW



### Bioinspired materials from cellulose anisotropic structures

**Prof. Maria Helena Godinho**

Department of Materials Science and I3N/CENIMAT, Universidade NOVA de Lisboa, PT



### Bio-hybrid Light-emitting Diodes

**Prof. Dr. Rubén D. Costa**

Technical University of Munich, DE



### Bioinspired Self-Assembled Nanocomposites: From Adaptive Mechanics to Building Lasers

**Andreas Walther**

Department Chemistry, University Mainz, DE



### Colourful synergies of geometry and quasi-/order in biological photonic systems

**Bodo Wilts**

Adolphe Merkle Institute, University of Fribourg, CH

## BOOK YOUR PARTICIPATION NOW

### ONLINE TICKETS\*

#### DGM-MEMBERS

360€

DGM members and employees of DGM member companies/institutes

#### NON-DGM-MEMBERS

390€

### ON-SITE TICKETS\*\*

*Limited to 45 participants. First come, first serve! These tickets cannot be booked separately without an overnight stay or catering package!*

#### DGM-MEMBERS

1.100€

DGM members and employees of DGM member companies/institutes

#### DGM-MEMBERS (SPECIAL STUDENT TICKET)

900€

DGM members and employees of DGM member companies/institutes up to 30 years

#### NON-DGM-MEMBERS

1.250€

#### NON-DGM-MEMBERS (SPECIAL STUDENT TICKET)

990€

Persons up to 30 years, Non-DGM-Member special student ticket

#### \*Online tickets include:

*the online participation through a browserbased web conference platform and the possibility to watch all contributions on-demand for 14 days after the conference*

#### \*\*On-site tickets include:

*the possibility to watch all contributions on-demand for 14 days after the conference | accommodation from Monday 21 March 2022 to Thursday 24 March 2022 catering package:*

- 3x Breakfast (from Tuesday to Thursday)
- 4x Lunch (from Monday to Thursday)
- 3x Dinner (from Monday to Wednesday)

#### Disclaimer

*Overnight stays are included in the price of the on-site tickets and are limited. The general terms and conditions apply, which can be found at the conference website. If your submission request cannot be fulfilled, cancellation is free of charge.*

### Conference Office

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**DGM**