

7th European Symposium on Biomaterials and Related Areas **BioMAT 2023**

03 - 04 May 2023
Hybrid Conference - Weimar & Online

dgm.de/biomat

DEAR BIOMAT MATERIALS COMMUNITY,

We invite you to join the 7th European Symposium on Biomaterials and Related Areas - BioMAT 2023.

Based on the great success of the previous six Euro BioMAT Symposia 2011 in Jena, 2013, 2015, 2017, and 2019 in Weimar and 2021 online, this international conference will be held every two years in the Jena-Weimar region.

The symposium 7th Euro BioMAT 2023, 03 - 04 May 2023, addresses the growing interest of science and industry in the different aspects of the creation, characterization, testing, and application of biomaterials and closely related areas. The motivation is not only the recent scientific progress and new challenges of this exciting, strongly interdisciplinary field of science and engineering. Materials scientists, physicists, chemists, biologists in industrial R&D, and medical professionals are increasingly facing situations where materials are confronted with high-performance requirements and a challenging biological environment simultaneously.

Most growth in biomaterials emerged in the USA and Asia over the past decades, with Europe closing the gap with rapid and continuous growth in this field. The Deutsche Gesellschaft für Materialkunde e.V. (DGM) and its panel of experts in biomaterials address these developments with the 7th Euro BioMAT 2023 in Weimar. 7th Euro BioMAT 2023 will present and discuss the current state of progress and novel trends in the development, characterization, evaluation and regulation, application, testing, and modeling of biomaterials in basic science and industry.

In addition, this symposium will bring together experts in closely related areas, such as biomimetics, biomineralization, and biopolymers.

The organizers at the DGM want to serve the European biomaterials community with a compact two-day meeting that brings together fascinating science and inspiring people in a delightful setting in historic Weimar in the very heart of Europe. The program of the 7th Euro BioMAT 2023 will comprise several invited plenary lectures as well as oral and poster presentations. The organizers look forward to receiving numerous contributions to the Euro BioMAT 2023.

We look forward to seeing you in Weimar 2023!



Prof. Dr. Klaus D. Jandt,
Chair of the symposium,
Friedrich Schiller University Jena, DE



Dr.-Ing. Thomas F. Keller,
Co-Chair of the symposium,
DESY Hamburg, DE

CONFERENCE VENUE

Welcome to Weimar, a significant and charming residential city in the center of Europe. From here, ideas and works of art began their journey into the world. Today, the great names of the past always resonate: Goethe and Schiller, Bach, Liszt and Gropius. Spacious park landscapes, open squares and small streets, the poets' houses, museums and castles - European cultural history gathered in a very small space and awarded the title of World Heritage Site by UNESCO. Nevertheless, the city remains authentic: moving, pulsating, cosmopolitan.



Belvedere Castle, Weimar. No copyright, free image pixabay

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Conference Office

Deutsche Gesellschaft für Materialkunde e.V.
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TOPICS

A Structure and Properties of Biomaterials

- Bio nano materials
- Bioactive materials, bioglass and calcium phosphates
- Biodegradable materials
- Bioinspired materials / biomimetic materials
- Biological materials and biomineralization
- Computational biomaterials science
- Hydrogels and biobased & synthetic polymers
- Imaging of biomaterials

B Biological Response to Biomaterials

- Biofilms & antimicrobial biomaterials
- Biocompatibility
- Biointerfaces and microenvironments
- Clinical performance and microenvironments
- Multi-functional biomaterials
- Nano particles in biological environments
- Autonomous biomaterials

C Biomaterials Applications

- Current and future challenges for the MedTech industry
- Dental materials
- Drug and gene delivery
- Innovations in fabrication including 3D printing / additive manufacturing / biofabrication of biomaterials
- Responsive and smart biomaterials
- Tissue engineering / regenerative medicine
- Materials for ophthalmology
- Biomaterials regulation

PLENARY SPEAKERS



Bioinspired solutions at surfaces and interfaces to prevent transepithelial implant infections

Conrado Aparicio, PhD

UIC Barcelona - Universitat Internacional de Catalunya, ES



Novel protein and peptide fibrous biomaterials

Anna Mitraki, PhD

University of Crete, GR



Safety integrated implants

Prof. Dr. Meike Stiesch

Hannover Medical School, DE



Electrochemical sensors: new insights into studying biomaterials

Assoc. Prof. Dipankar Koley

Oregon State University, US

BOOK YOUR PARTICIPATION NOW

ONLINE TICKETS*

PERSONAL DGM MEMBER	329€
DGM COMPANY/INSTITUTE MEMBER***	339€
REGULAR	359€

ON-SITE TICKETS**

PERSONAL DGM MEMBER	749€
DGM COMPANY/INSTITUTE MEMBER***	789€
REGULAR	859€

ON-SITE TICKETS** - YOUNG SCIENTISTS****

PERSONAL DGM MEMBER	499€
DGM COMPANY/INSTITUTE MEMBER***	509€
REGULAR	549€

**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 | catering package:

- 3x Coffee breaks (Wednesday, Thursday)
- 2x Lunch (Wednesday, Thursday)
- 1x Dinner (Wednesday)

***Employees of DGM member companies/institutes

****Bachelor, Master and PhD Students up to 30 years

Disclaimer

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.

KEYDATES & DEADLINES

- **31 December 2022**
Submission Deadline for lecture, and oral-poster contributions
- **January 2023**
Authors Confirmation
- **01 February 2023**
Deadline for registration for authors
- **25 April 2023**
Submission Deadline for poster contributions
- **03 May 2023**
Beginning of the 7th European Symposium on Biomaterials and Related Areas BioMAT 2023

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