

Scope of the Symposium

Biomaterials constitute a still growing area of research in science, driven by the demand of clinical medicine for suitable synthetic materials for the regeneration of biological functions. A significant progress is only achievable by the joint efforts of clinicians, biologists, biochemists, and materials scientists (e.g., chemists, engineers, physicists). Biological, chemical, and mechanical requirements must be fulfilled by a good implant. The interplay between biological function (including implant performance) and the mechanical loads on the body is described as **biomechanics**, another emerging field which tries to understand and subsequently to enhance the mechanical performance of implants. **Regenerative medicine** is another emerging area of the biosciences where the biological aspect is even more important.

It is the aim of this symposium to bring together for the 8th time people from various areas of research to accomplish an open and lively discussion on current problems in the area of biomaterials.

We invite you to join us at Essen for another productive and enlightening meeting among colleagues from these areas.

For the organizing committee,

Matthias Epple

Abstracts are invited to all topics from the areas of biomaterials, biomechanics and regenerative medicine, e.g.:

- **Biomechanics and Implants** (e.g., Cardiovascular Implants, Orthopedic Implants, Surgical Implants, Implants Design and Materials, Laboratory and Computer Simulation, Rapid and Virtual Prototyping)
- **Biomaterials** (Metals, Ceramics, Polymers, Composites and Coatings)
- **Surface Tissue Interaction** (Surface Modification, Surface and Particle Characterization on the nm- and μ m-scale, Molecular Layering and Biocoatings, Surface and Particle Interaction with Cells)
- **Clinical Experience**

English papers of 10-20 pages will be published after "peer review" in the journal *Materialwissenschaft und Werkstofftechnik (MATWER)*.

The symposium language will be English.

Key Deadlines:

- Submission of abstracts for papers and oral presentation: May, 15th, 2005
- Notification of acceptance for papers and oral presentation: June, 15th, 2005
- Submission of abstracts for poster presentation: August, 1st, 2005
- Notification of acceptance for poster presentation: August, 31st, 2005
- "last minute" poster presentations: September, 1st, 2005

Abstracts:

Abstracts of Papers and Posters will be printed in a bound volume and be available at the symposium. Abstracts should be submitted in DIN A4 format (Times Roman, 12 pt, Microsoft Word format, no other format will be accepted). Please submit the abstracts via e-mail to matthias.epple@uni-essen.de.

**Organization/
Exhibition:**

Universität Duisburg-Essen
FET & V
Universitätsstr. 2,
45141 Essen
Germany

Phone: +49 (0)201/183-2066

Fax: +49 (0)201/183-2134

E-Mail: fet@uni-essen.de

Registration form (<http://www.biomaterials.uni-essen.de>)

Biomaterials and Biomechanics:
Fundamentals and Clinical Applications

Family Name/First Name/Title:

Institution:

Department:

Street/No.:

Zip Code:

City:

State:

Country:

Phone:

Fax:

E-Mail:

Registration

Exhibition

Paper

Sponsorship

Poster

Room Reservation: Touristikzentrale im Handelshof
Am Hauptbahnhof 2

Postfach 10 10 17

45010 Essen, Germany

Fon: +49 (0)201/88-72046
Fax: +49 (0)201/88-72044

E-Mail: emg@essen.de
Internet: <http://www.essen.de/emg>

Slide and film projection: Facilities are available for 24 x 26 mm slides, simultaneous projection of two slides (on demand), over-head projection, VHS Video (on demand), PowerPoint presentation

Exhibition: An industrial exhibition will be run in conjunction with the symposium. Those participants interested in renting exhibition space should tick the box on the registration form for further information.

Sponsorship: Sponsorship is invited in support of this event. Please indicate on the registration form if your organization is interested in sponsoring the symposium.

Registration: A registration for fax use is enclosed. Further information can be found on the symposium homepage:
<http://www.biomaterials.uni-essen.de>

Symposium Fee: before June, 30th, 2005 Euro 100,-
after June, 30th, 2005 Euro 150,-

University Staff: before June, 30th, 2005 Euro 50,-
after June, 30th, 2005 Euro 75,-

Students: before June, 30th, 2005 Euro 25,-
after June, 30th, 2005 Euro 25,-

Payment: The payment should be done by bank transfer after being invoiced by FET & V.

Venue: University of Duisburg-Essen, Campus Essen

Scientific Organization: Prof. Dr. Matthias Epple
Universität Duisburg-Essen
Institut für Anorganische Chemie
Universitätsstraße 5-7
45141 Essen
Germany

Phone: +49 (0)201 183 2402 (Mrs. Nota)
Fax: +49 (0)201 183 2621
E-Mail: matthias.epple@uni-essen.de

Universität Duisburg-Essen
University of Duisburg-Essen

1st Announcement and
Call for Papers and Posters

Biomaterials and Biomechanics: Fundamentals and Clinical Applications

8th International and Interdisciplinary
Symposium of the Working Group on
"Biomaterials and Tissue Compatibility"

September 21st - 23rd, 2005
Essen, Germany

Organizing Committee:
M. Epple, D. Bingmann, A. Fischer, H.P. Jennissen

Sender:
Biomaterials and Biomechanics:
Fundamentals and Clinical Applications

Universität Duisburg-Essen
FET & V
Universitätsstr. 2
45141 Essen
Germany

Bite
frankieren