

## About Hanover



Hannover is a modern city with a long historical tradition. The capital of Lower Saxony with around 500,000 inhabitants, it has many attractions such as the Baroque Gardens in Herrenhausen, Maschsee Lake, the Zoo and the Eilenriede city forest, Hannover's 'green lung'.

There are also a number of museums dedicated to modern art and design, as well as cultural institutions exploring Hannover's historical background, including the Gottfried Wilhelm Leibniz Library.

Hannover is a friendly city with many pubs, a car-free historic centre and numerous shopping facilities.

Thanks to its diverse academic institutions, Hannover can boast a thriving scientific community.

## SFB 599

Collaborative Research Centre SFB 599 "Sustainable Bioresorbable and Permanent Implants of Metallic and Ceramic Materials" is an interdisciplinary research alliance between Hannover Medical School, the Leibniz University of Hannover, the University of Veterinary Medicine Hannover, Hannover Laser Centre, the Technical University of Braunschweig and the Helmholtz Centre for Infection Research in Braunschweig.

This alliance, which has existed since 2003 and is funded by the German Research Foundation (DFG), is dedicated to foundational research into sustainable medical implants.

## Congress venue

Welcome to Hannover Medical School (MHH)

Hannover Medical School, founded in 1965, is one of the world's leading university medical centres. Our research and patient care set national and international standards. We are also part of an excellent regional medical network.

The substantial increase in the number of research projects in recent years means continuous spatial expansion is necessary. An example of this growth is the FORUM NIEDERSACHSEN, in which this conference is being held.



Forum Niedersachsen  
Feodor-Lynen-Str. 23 – 30625 Hannover

## Contact

www.sfb599.de



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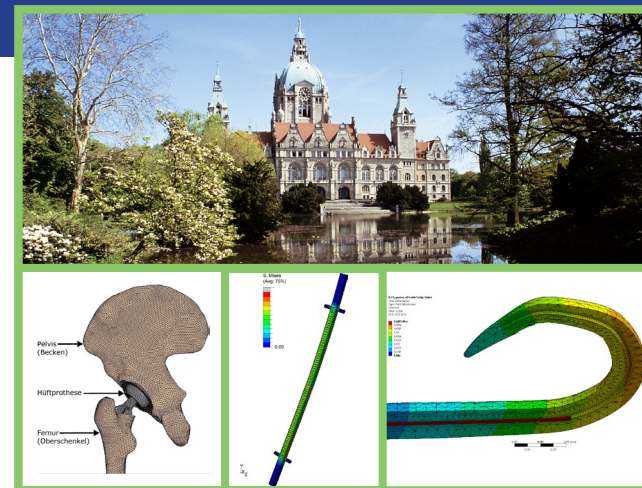
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## SFB-partners



# International Conference on Biomedical Technology

Hannover, 20<sup>th</sup> – 22<sup>nd</sup> November 2013



Collaborative Research Centre  
SFB 599  
Sustainable Bioresorbable and Permanent  
Implants of Metallic and Ceramic Materials

Funded by the DFG Deutsche Forschungsgemeinschaft

## Introduction

The first ECCOMAS thematic conference on Biomedical Engineering will be held from 20<sup>th</sup> to 22<sup>nd</sup> of November 2013 in Hannover.

Current challenges in medicine and engineering are related to the application of computational methods to clinical medicine and the study of biological systems at different scales. Based on the tremendous advances in medical imaging and high-performance computing, engineering is able to help in medical decision processes or implant designs. Thus, the complex development of innovative degradable and non-degradable implants can only be addressed by a multi-disciplinary approach of physicians, natural scientists, and engineers from a wide range of specialisation.

This conference will bring together scientists from different areas of medicine, engineering and natural sciences. It will focus on function, production, initialization and complications of different types or implants and related topics.

## Scientific Programme

The scope of the conference is

- degradable and non-degradable implants
- synthetic and biological hybrid implants
- implant design
- tissue-implant interfaces
- fatigue and fracture of bone implants
- implant related infections
- models of tissues
- models of biological systems

The programme will include

- Keynote lectures
- Oral presentations
- Poster session
- Mini symposia
- Young investigators poster award

We offer a platform for various symposia. Feel free to contact us, in case you would like to host a mini-symposium on this conference.

The programme will be announced shortly. We would be grateful for your abstract as an important contribution to this conference's programme.

## Abstract submission

Your abstracts for this conference are welcome until September 8<sup>th</sup>, 2013. All accepted abstracts will be published.

## Fees and Funding

The conference is one of the Thematic Conferences of the European Community on Computational Methods in Applied Sciences (ECCOMAS). It is funded by the German Research Foundation (DFG) as an event of the Collaborative Research Centre (SFB) 599.

Conference fee:

	Early bird offer until 1 <sup>st</sup> October:	
Conference fee	300 Euro	350 Euro
Conference fee for students	50 Euro	100 Euro

*ECCOMAS members will have a 5% reduction on the conference fees.*

Registration fees include: Conference proceedings, attendance at all scientific sessions, coffee breaks, lunch, reception and banquet.

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