SIIRI Spokesperson

Meike Stiesch
Department of Prosthetic Dentistry and Biomedical Materials Science
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Anette Melk
Dean for Academic Career Development
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Deputy Spokesperson

Hans Jürgen Maier
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Hannover Centre for Production Technology
Leibniz Universität Hannover

Deputy Spokesperson

Philipp Junker
Institute of Continuum Mechanics
Leibniz Universität Hannover

Institutions:

Medizinische Hochschule Hannover
Leibniz Universität Hannover
Technische Universität Braunschweig
HZI Helmholtz Zentrum für Infektionsforschung
hmtmh Hochschule für Musik Theater und Medien Hannover

SIIRI

2nd International SIIRI Winter School

Interdisciplinary Implant Sciences

January 22 – 23, 2024

2nd International SIIRI Symposium

January 24 – 25, 2024

SIIRI

CONTACT INFORMATION
CRC / TRR 298 SIIRI

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DFG Deutsche Forschungsgemeinschaft German Research Foundation

Venue:

Courtyard Hannover Maschsee
Arthur-Menge-Ufer 4
30169 Hannover
Germany

Who we are

In the interdisciplinary CRC Safety-Integrated and Infection-Reactive Implants (SIIRI) 150 researchers from medicine, engineering, natural and social sciences work together on the development of new strategies for the prevention, diagnosis and therapy of implant-associated complications, in order to ensure long-term implant safety.

Our research focuses on four key questions:

- How can we effectively prevent implant complications?
- How can we detect implant complications at an early stage?
- How can we counter implant complications in a timely and appropriate manner?
- How do we create confidence in new safety-integrated implants?

What to expect

The **Winter School "Interdisciplinary Implant Sciences"** is the unique opportunity to obtain basic and expert knowledge in the interdisciplinary field of implant technologies. This includes engineering, life sciences, medicine, and communication sciences, networking with colleagues at poster sessions, discussions with the expert during lectures and workshops as well as further exchange at social events.

The **Symposium** will focus on novel developments in implant medicine, with particular emphasis on new concepts for implant safety, for the (digital) implant lifecycle management and for implant developments in materials science, as well as on new strategies to detect, prevent and combat biological implant-associated complications (e.g., infection, fibrosis). The symposium will also cover biointerfaces and micro environments, 3D multicomponent in vitro models and new strategies for implant functionalization and implant-associated sensing.

WINTER SCHOOL TOPICS

- BASIC KNOWLEDGE IN IMPLANT SCIENCE & TECHNOLOGIES
- TRAINING IN INTERDISCIPLINARY WORK
- EXCHANGE WITH PhD CANDIDATES OF OTHER DISCIPLINES

SYMPOSIUM TOPICS

1. BIOINTERFACES AND MICRO ENVIRONMENTS
2. INTRACORPORAL AND IMPLANT-ASSOCIATED SENSING
3. NEW APPROACHES TO IMPLANT DEVELOPMENT IN MATERIALS SCIENCE
4. CONSIDERING SEX AND GENDER IN IMPLANT SCIENCE
5. BIOMATERIAL-ASSOCIATED BIOFILM INFECTIONS
6. NOVEL IMPLANT FUNCTIONALIZATION STRATEGIES
7. IMPLANT SAFETY AND DIGITAL IMPLANT LIFE CYCLE MANAGEMENT
8. ACCEPTANCE OF MEDICAL TECHNOLOGY INNOVATIONS

Important Dates:

Deadline for submitting a two-page abstract for the SIIRI Symposium:	December 15th, 2023
Acceptance of contributions for oral presentation:	December 15th, 2023

For submission, registration or other information, please contact:

Winter School:
SIIRI-IRTG@mh-hannover.de

Symposium:
SIIRI@mh-hannover.de

or visit: www.SIIRI-SFB.de