

Organizers

IFESS

The mission of the International Functional Electrical Stimulation Society, Inc.™ is to promote the research, application, and understanding of electrical stimulation as it is utilized in the field of medicine through meetings, tutorials, publications, and the exchange of information.

www.ifess.org

DGBMT – German Society for Biomedical Engineering within VDE

German scientists in the field of biomedical engineering are organized in the DGBMT, which was founded in 1972. The Society merged with the VDE in 2001 and now has over 1,900 members including physicians, engineers, scientists and companies.

www.dgbmt.de

Institute of Microsystem Technology (IMTEK)

The IMTEK at the University of Freiburg is unique in Europe. The scientific scope of the institute, with 18 faculty and over 200 research and technical staff, encompasses nearly all technical fields relevant to the highly interdisciplinary world of microsystem technology.

www.imtek.de

University of Freiburg

Founded in 1457, the University of Freiburg is one of the oldest German universities and is now one of the nation's leading research and teaching institutions, recently awarded as one of nine "Universities of Excellence" in Germany.

www.uni-freiburg.de

www.ifess2008.de

DGBMT
DEUTSCHE GESELLSCHAFT FÜR
BIOMEDIZINISCHE TECHNIK IM VDE

INTERNATIONAL
ifess
FUNCTIONAL ELECTRICAL STIMULATION
SOCIETY

Call for Papers/Registration

IFESS 2008 –
from movement to mind



13th Annual International
FES Society Conference

Freiburg Concert Hall
Freiburg, Germany
September 21st-25th, 2008



VDE



Call for Papers

From movement to mind – the applications of electrical stimuli to treat diseases and to restore motor and sensory functions have tremendously grown over the last decades. While “classical“ electrical stimulation mainly addressed the functional rehabilitation of paralyzed limbs, stories of success have been written in the field of cochlea implants, deep brain and vagal nerve stimulation. Recording of bioelectrical signals covers the whole range from diagnosis to rehabilitation. Recently, electrical stimulation has been proven to be successful to treat psychiatric disorders, retinal vision prostheses have been gone in human clinical trials and brain-computer-interfaces provided paralyzed patients a control interface to communicate via a computer screen.

IFESS 2008 presents latest state of the art in the allied fields of functional electrical stimulation, neural engineering, neurosciences and neurological disabilities and promotes interdisciplinary discussions between clinicians, physiotherapists, biomedical engineers, and neuroscientists.

The conference provides special interest group workshops for researchers and clinicians at different levels of knowledge including technological developments, clinical applications, and regulatory affairs as well as regular oral and poster presentations. An accompanying exhibition gives an overview of relevant products in the field of electrical stimulation and neural modulation.

Thomas Stieglitz

Martin Schüttler

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Organizing Committee

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Congress Secretariat

VDE Conference Services

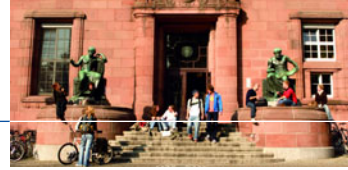
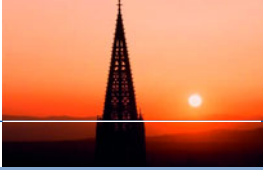
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Keynote Speakers

Keynote 1

Electrical stimulation to treat psychiatric disorders

Prof. Dr. Malek Bajbouj

Charité, Berlin, DE

Keynote 2

Brain Computer Interfaces for Motor Control

Prof. Dr. Ad Aertsen

University of Freiburg, Freiburg, DE

Keynote 3

Ethical and societal implications of central nervous system neuroprostheses

Prof. Dr. Steffen Rosahl

Helios Klinikum Erfurt, DE

Keynote 4

Biocompatibility of central nervous system probes

Prof. Dr. Eduardo Fernandez

Institute of Bioengineering, Elche (Alicante), ES

Timetable – 13th Annual International FES Society Conference

	Sun, September 21 (IMTEK, Building 101)	Mon, September 22 (Freiburg Concert Hall)	Tue, September 23 (Freiburg Concert Hall)	Wed, September 24 (Freiburg Concert Hall)	Thu, September 25 (Freiburg Concert Hall)
		8:15	8:15	8:15	8:15
		Keynote Lecture 1	Keynote Lecture 2	Keynote Lecture 3	Keynote Lecture 4
9:00	Pre-Conference Workshops	Oral Session 1	Oral Session 5	Oral Session 9	Oral Session 11
10:30	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK	COFFEE BREAK
11:00	Pre-Conference Workshops	Oral Session 2	Oral Session 6	Oral Session 10	Oral Session 12
12:30	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	LUNCH BREAK	Closing Ceremony
13:30	Pre-Conference Workshops	Oral Session 3	Oral Session 7	Lab Tours & Excursions	IFESS General Meeting
15:00	COFFEE BREAK	Poster Session 1 incl. Coffee	Poster Session 3 incl. Coffee		
15:30	Pre-Conference Workshops	Oral Session 4	Oral Session 8		
17:00		Poster Session 2 incl. Coffee	Poster Session 4 incl. Coffee		
19:00	Welcome Reception (Freiburg Concert Hall)	18:30 18:45	18:30 18:45	Conference Dinner Vodovnik Award (Historic Merchants' Hall)	
		Opening Ceremony Vodovnik Award	IFESS Board of Directors Meeting		
		19:45			
		Get Together and Industrial Exhibition			
22:00		22:00			



Conference topics

Topics will include, but are not limited to, the following areas:

- Upper and lower extremity FES
- Therapeutic electrical stimulation, e.g. stroke, epilepsy
- Neuromodulation
- Human-Computer-Interfaces
- FES for respiration
- FES for bladder/bowel/sexual function
- Natural and artificial sensors
- Control strategies
- Gait/posture/motion analysis
- Biomechanics
- Muscle fatigue
- Sensory neuroprostheses (hearing, vision)
- Innovative applications, e.g. in psychiatric disorders
- Neurotechnologies and neural engineering

Vodovnik Student Paper Award

As is the tradition at the IFESS meeting, there will be a student paper competition in honor of Lojze Vodovnik, a founding member and ardent supporter of IFESS. All entries will be reviewed and the top 5 papers will be scheduled for a platform session with the rest being assigned poster status.

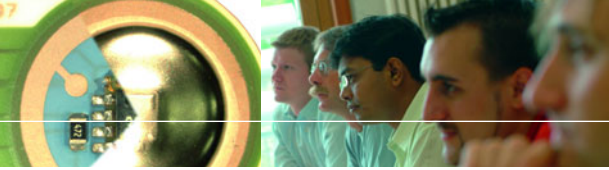
Vodovnik Student Paper Award Guidelines:

- When submitted, papers must be identified as a Vodovnik Student Paper Award submission
- Sponsor must be identified and full contact information provided
- Papers will be scored on originality, scientific content, and presentation style
- Three prizes will be awarded:
 - First Place € 500
 - Second Place € 400
 - Third Place € 300
- Each winner will be presented with a certificate and a plaque

Please see the IFESS website (www.ifess.org) for a list of past winners and a short biography of Dr. Vodovnik.

Submission

The submission and registration procedure for pre-conference workshops, papers, proposals for special sessions, and for exhibitors are posted on the conference web site at www.ifess2008.de and will give guidelines for requests and online-submission of manuscripts. The scientific committee will give high preference to papers that clearly present the work, methods, results, originality, significance, superiority and applications of the techniques discussed. The



Venue

submitted manuscript should closely reflect the final paper, as it will appear in the conference proceedings.

Authors Schedule

Deadline to submit papers: May 22nd, 2008

Notification of acceptance: June 23rd, 2008

Deadline to submit final papers: July 22nd, 2008

Papers are invited for oral and poster presentation.

Presenters must register for the conference.

Exhibition and Sponsorship

IFESS 2008 is the leading annual conference on Functional Electrical Stimulation. It is a unique opportunity for companies to meet scientists and physicians. The Exhibition is open from Monday, 8:15 h until Wednesday, 13:30 h. For more information on exhibiting at IFESS 2008 and sponsorship opportunities, please contact the Congress Secretariat or have a look at the Congress homepage www.ifess2008.de

Freiburg, known as the capital of the black forests, combines the flavour of its medieval city center with modern urban life. Located in the triangle of Germany, France and Switzerland, it is well known for its mild climate and warm evenings in fall to visit restaurants and beer gardens and learn about „savoir vivre“ with local Baden cuisine and wines. The Black Forest and the wine regions around offer plenty opportunities to enjoy sports and recreation activities as well as entertainment in concerts or theatres.

The conference will be held in the conference center (Freiburg Concert Hall/Konzerthaus Freiburg) that is easy accessible with public transportation. It is located in walking distance to many hotels and the city center.

We cordially invite you to visit IFESS 2008 and spend some time with us in the beautiful southwest of Germany.

Further information about Freiburg:

<http://www.freiburg.de>

Further information about the University of Freiburg:

<http://www.uni-freiburg.de>