

Short Program

11th International
Congress of the IUPESM

MEDICAL PHYSICS AND BIOMEDICAL ENGINEERING

WORLD CONGRESS 2009



For the benefit
of the Patient.



September 7–12
Munich/Germany



Present your Research to the World!

The World Congress 2009 on Medical Physics and Biomedical Engineering – the triennial scientific meeting of the IUPESM – being held in Munich, Germany, on September 7 – 12, 2009, is the world's leading forum for presenting the results of current scientific work in health-related technologies to an international audience. We would like to invite you to attend this outstanding scientific event!

With more than 2,700 papers submitted it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009!

Medical physics, biomedical engineering and bio-engineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades. As new key technologies arise with significant potential to open new options in diagnostics and therapeutics, it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output. Covering key aspects such as information and communication technologies, micro- and nanosystems, optics and biotechnology, the congress will serve as an inter- and multidisciplinary platform that brings together people from basic research, R&D, industry and medical application to discuss these issues.

As a major event for science, medicine and technology held every three years, the congress provides a comprehensive overview and in-depth, first-hand information on new developments, advanced technologies and current and future applications.

With this Short Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich!

We look forward to seeing you in September



Wolfgang Schlegel



Olaf Dössel

Wolfgang Schlegel
Congress President

Olaf Dössel
Congress President

Advance our Professions and Global Health!

Since the first World Congress on Medical Physics and Biomedical Engineering convened in 1982, medically and biologically oriented engineers and physicists from every continent have gathered every three years to discuss how physics and engineering can advance medicine, health and health care and to assess the clinical, scientific, and technical progress in their fields.

In the tradition and the mission of our professions, which are the only ones involved in the whole loop of health and health care from basic research to the development, assessment, production, management and application of medical technologies, the theme of WC2009 is "For the benefit of the Patient".

Thus, in addition to scientific aspects, the Congress will focus on all aspects of safe and efficient health technology in both industrialized and developing countries, including economic issues, the perspectives that advanced technologies and innovations in medicine and health care offer for the patients and the development of societies, the progress of medical Bioengineering and Medical Physics, including health policy and educational issues as well as the need for the regulations as health professionals of those biomedical/ clinical engineers and medical physicists who are working in the health care systems.

The World Congress, bringing together physicists, engineers and physicians from all over the world, including the delegates of the 138 constituent organizations of the IUPESM representing some 140,000 individual members, is the best place to discuss these issues.

I invite you to participate and to mark your calendar. The World Congress, as most important event of our professions, provides the best possible opportunity for discussions, to meet old friends and to make new ones.

I am looking forward to seeing you in Munich



Joachim Nagel



Joachim H. Nagel
President of the IUPESM

Congresses incorporated in the WC2009



17th International Conference on Medical Physics of IOMP (International Organization for Medical Physics)



22nd International Congress on Biological and Medical Engineering of IFMBE (International Federation for Medical and Biological Engineering)



3rd European Conference on Medical Physics held by the European Federation of Organizations in Medical Physics (EFOMP)



40th Annual Meeting of the German Society for Medical Physics (DGMP)



43rd Annual Conference of the German Society for Biomedical Engineering (DGBMT)



The 6th ICMCC Annual Event

Partners of the WC2009



Partner in Health and Health Systems:
World Health Organization
www.who.org



Partner of Innovation:
Bundesministerium für Bildung und Forschung
www.bmbf.de



Partner of Networking:
Forum MedTech Pharma
www.medtech-pharma.de



Fraunhofer Gesellschaft

Partner of Technology:
Fraunhofer-Gesellschaft
www.fraunhofer.de



Partner of Standards:
DKE Deutsche Kommission Elektrotechnik
Elektronik Informationstechnik im DIN und VDE
www.dke.de



Partner of Quality:
VDE Prüf- und Zertifizierungsinstitut
www.vde.com

Monday Courses

FROM SCIENCE TO INNOVATION

Monday Sept 7, 10.30am - 5.30pm

On September 7 at the World Congress 2009, the VDE I DGBMT and the Forum MedTechPharma will offer a platform for a number of continuing education courses that are specially tailored for the national and international public from research institutions and small and medium enterprises (SMEs), and that have been jointly developed and organized in Germany.

These courses are designed to improve cooperation among research institutes, SMEs and industry. They are directly based on the study conducted by the German Ministry for Education and Research on identifying obstacles to innovation in medical engineering. The topics that are detailed in the study, published in November 2008, will be covered in the courses to convey know-how that is both practical and relevant to the target groups.

Powered by



Medical Device Directives – Pharmaceutical Regulation

Which one applies to my new ideas?

Ulrich M. Gassner

Forschungsstelle für Medizinproduktrecht,
University of Augsburg

Andrea Weiland-Waibel

Explicat Pharma GmbH, Hohenbrunn

Hans-Albert Schultz

MPC International S.A. Luxemburg, Luxemburg

Risk Management Assessment

No approval procedure for medical devices without it

Johannes Dehm

VDE Initiative MikroMedizin, Frankfurt/Main

Michael Bothe

VDE Institut, Offenbach

Peter Knipp

qcmed Quality Consulting Medical GmbH, Aachen

Standards and Standardization

How knowledge can protect your ideas and innovations

Klaus Neuder

DKE Deutsche Kommission Elektrotechnik
Elektronik Informationstechnik im DIN und VDE,
Frankfurt/Main

Patents and Intellectual Property Rights

From investigation of alien ideas to protection of your own thoughts

Alfred Schillert und Kordula Kruber

PROvendis GmbH, Mülheim/Ruhr

Cornelius Bobbert

Bobbert & Partner Patentanwälte, München

Richard Schlötter

Reed Smith, München

Health Technology Assessment and Clinical Studies –

from development to reimbursement:

Basic knowledge for innovators

Marc O. Schurr

Novineon Healthcare Technology Partners, Tübingen

Hubertus Rosery

AiM GmbH-Assessment in Medicine-Research and
Consulting, Schopfheim

Reimbursement for Medical Devices

Basic knowledge for successful innovation

Olaf Pirk und Frank-Ulrich Fricke

Health Economics & Outcomes Research, IMS Health
GmbH & Co. OHG, Nürnberg

IT-Networks Incorporating Medical Devices

Trends, standards and procedures

Jörg A. K. Ohnsorge

Orthopädische Klinik der RWTH Aachen

Björn Bergh

Zentrum für Informations- und Medizintechnik,
Universitätsklinikum Heidelberg

Thomas Norgall

Fraunhofer Institut für Integrierte Schaltungen – (IIS),
Erlangen

The courses will be held in the course of the World Congress 2009 and comprise three sections of 105 minutes each. The courses will be held in English.

Those interested can register for the Monday Courses at: www.wc2009.org.

Contact: wc2009-sec@vde.com

SCIENCE AND CLINICAL ENGINEERING

Monday Sept 7, 10.30am - 5.30pm

Bioinstrumentation

John G. Webster

Department of Biomedical Engineering
University of Wisconsin, USA

The tutorial will present methods of sensing, amplifying and displaying medical variables. It will include design of electrocardiographic amplifiers and methods of avoiding interference and motion artifacts. It will include design of therapeutic devices: cardiac pacemakers, defibrillators, electrosurgery, and RF ablation. It will present electrical safety.

Educational goals

The participant will learn the fundamental principles of operation and general types of equipment used in hospitals and biomedical research. A biomedical engineer with some background in electronics and instrumentation will learn how to use and design new medical instruments. This knowledge will be useful for all those who work in the medical device and instrumentation field.

Prerequisites: Physics, electronic circuits.

Highlights

The world of medical engineering will meet on September 7-12, 2009, for its most important industry conference, the World Congress 2009 on Medical Physics and Biomedical Engineering. The ceremony evening will be an outstanding opening event with top-notch speakers from science, medicine, industry and politics highlighting the importance of this international congress. It will focus on the perspectives that advanced technologies and innovations in medicine and healthcare offer for the development of societies throughout the world in coming decades.

The Congress is an ideal platform for presenting innovations in medical engineering and the strengths of Germany as a business location. Highly prominent representatives from the political, business and scientific communities will open the Congress:



Hermann Requardt
CEO of the Healthcare Sector of Siemens AG



Annette Schavan
German Minister for Education and Research



Roger Y. Tsien
Nobel Laureate in Chemistry 2008

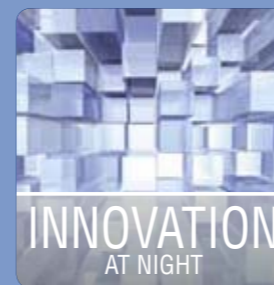
The event will also provide various opportunities for personal contacts and talks in exclusive surroundings at the get-together after the official ceremony.

There will be music, drinks and food* -it's an event you can't miss!

OPENING CEREMONY

*Admission, drinks and food are included in the registration fee.

Join us for the "Innovation at Night" Event!



The best thing that can happen is turning an idea into a technology that benefits healthcare! There is scarcely a global event like the WC2009, where so many ideas and innovations for medical technologies are presented in such density and such close proximity to applied medicine.

The Keynote Speaker will present the WC2009 Innovation Award winners at the Innovation at Night Event on Friday, September 11!

Keynote Speaker:



Hans-Jörg Bullinger
President of the
Fraunhofer-Gesellschaft

The Awards will be followed by a get-together with music, food and drinks*.

INNOVATION AT NIGHT



One of the major goals of this congress is to identify and discuss scientific projects, technologies and innovations that potentially will have a path-breaking impact on the further development of medical technologies.

The WC2009 Innovation Award honors outstanding research and development projects in medical technology presented at the WC2009 that serve healthcare or healthcare management, and that have or promise to have a positive impact on economies and markets.

The Innovation Award is presented in three categories:

- Industry Award for product/system developments
- Science Award for individual achievements/research projects
- Young Talent Award for the best high-potential individual

A jury of leading experts will work on the selection of projects and evaluation of their potential upon submission.

The nominees will be notified following the jury's decision on July 30, 2009. The WC2009 Innovation Awards will be presented to the winners at the festive "Innovation at Night" event in front of a distinguished audience from politics, the sciences, medicine and industry on September 11, 2009.

If you want to apply for the WC2009 Innovation Award, a separate submission of your project is necessary. For details on submission, please go to www.wc2009.org.

Submission deadline is July 15, 2009.

Program Overview

	Mon, Sept 7	Tue, Sept 8	Wed, Sept 9	Thu, Sept 10	Fri, Sept 11	Sat, Sept 12
08:15		Scientific Sessions	08:15 Scientific Sessions	08:15 Scientific Sessions	08:15 Scientific Sessions	08:15 Scientific Sessions
10:30	Monday* Courses	11:45 Welcome by the Presidents and Awards	12:15	12:15	12:15	12:15
		12:45	13:30 Plenary Sessions	13:30 Plenary Sessions	13:30 Plenary Sessions	13:30 Plenary Sessions
		13:30	14:30 Scientific Sessions	14:45 Scientific Sessions	14:45 Scientific Sessions	14:45 Scientific Sessions
		14:30	16:30	17:00 Poster Session		15:15 Closing Ceremony
17:30		18:45	18:45	18:45	18:45	
19:00	State Reception** (closed event)	19:00 Opening Ceremony	19:00 VDE Forum** (closed event)		19:00 Innovation at Night***	19:00 Presidents Dinner (closed event)
19:30	Get together	20:30 Networking at Night		20:00 Bavaria at Night	20:00 Get together	
		22:00	22:00 Munich at Night			
			Recruiting Activities**			
			Poster Exhibition			
			Commercial Exhibition			
			Non Profit Exhibition			

* organized in cooperation with Forum MedTech Pharma and **VDE**

organized by **VDE

*** organized in cooperation with Fraunhofer Gesellschaft and **VDE**



Scientific Program, Poster Session, Exhibition

Scientific program:

Each of the 13 congress themes on technology and innovation is divided into several tracks and focus sessions that address specific aspects of medicine and technology. With 2,700 papers submitted there will be 16 sessions in parallel on each day. For an easy identification of the themes please see the table below.

Congress Themes
1. Radiation Oncology
2. Diagnostic Imaging
3. Radiation Protection and Dosimetry, Biological Effects of Radiation
4. Image Processing, Biosignal Processing, Modelling and Simulation, Biomechanics
5. Information and Communication in Medicine, Telemedicine and e-Health
6. Surgery, Minimal Invasive Interventions, Endoscopy and Image Guided Therapy
7. Diagnostic and Therapeutic Instrumentation, Clinical Engineering
8. Micro- and Nanosystems in Medicine, Active Implants, Biosensors
9. Neuroengineering, Neural Systems, Rehabilitation and Prosthetics
10. Biomaterials, Cellular and Tissue Engineering, Artificial Organs
11. Biomedical Engineering for Audiology, Ophthalmology, Emergency & Dental Medicine
12. General Subjects
13. Special Topics and Workshops

Poster exhibition:

The poster exhibition during all five congress days in parallel to the scientific program will be an ideal platform for scientific networking.

Authors will present their posters at the poster session on Wednesday, Sept 9 from 5 – 6.30 pm

Poster exhibition from Tuesday Sept 8 – Saturday, Sept 12



Commercial and non-profit exhibition:

Over 50 companies are showcasing their products, services and innovations at the exhibition accompanying the scientific program

Commercial exhibition will be open:
on Sept 8 from 8-10 pm
on Sept 9-11 from 9am-6pm

Non-profit exhibition will be open:
on Sept 8-11 from 9am- 6 pm
on Sept 12 from 9am - 1pm

The Speakers

Plenary Speakers

Yusuke Abe
The University of Tokyo, Japan
Control of the Artificial Heart

David J. Beebe
University of Wisconsin, Madison, USA
Microscale Environments for Understanding Cell Biology

Søren M. Bentzen
University of Wisconsin School of Medicine and Public Health, Madison, USA
Radiation Oncology: Medical Physics meets Molecular Biology

Thomas Bortfeld
Massachusetts General Hospital Boston, USA
Protonic Prospects

Peter Fratzl
Max-Planck Institute of Colloids and Interfaces, Potsdam, Germany
Biomaterials, Cellular and Tissue, Engineering, Artificial Organs

Apostolos Georgopoulos
University of Minnesota Medical School, Minneapolis, USA
Neuroprosthetics and Neurobiomarkers

Willi Kalender
Friedrich Alexander Universität Erlangen-Nuremberg, Germany
X-Ray Computed Tomography: State of the Art and Future Directions

Ron Kikinis
Harvard Medical School, Boston, USA
Open Source Software as Enabler of Science

Michael Vannier
University of Chicago Medical Center, Chicago, USA
Cancer, Trauma and Stroke- Imaging Biomarkers are changing them all

Peter Waegemann
Medical Record Institute, Newton, USA
Status and Future of EHR/EMR

Keynote Speakers

Theme 1. Radiation Oncology

Steve Webb
The Institute of Cancer Research, London, United Kingdom
The 21st Birthday Party for intensity-modulated radiation therapy (IMRT); 21 years from 1988-2009; From concept to practical reality

David Jaffray
Ontario Cancer Institute, Toronto, Canada
Image-guided Radiation Therapy: Beyond the Obvious

Theme 2. Diagnostic Imaging

John Boone
University of California Davis Medical Center Sacramento, USA
Research in Medical Physics: "What, Why and How"

Jürgen Hennig
University Hospital Freiburg, Germany
Nearly 40 but still going strong: Hot Topics in MR today

Vasilis Ntziachristos
Helmholtz Zentrum München, Germany
Optical and multi-spectral opto-acoustic tomography for post-genome biology and medicine

Georg Schmitz
Ruhr University Bochum, Germany
Innovation in Therapy and Diagnosis by Ultrasound Technology

Theme 3. Radiation Protection and Dosimetry, Biological Effects of Radiation

Christian Streffer
University of Duisburg-Essen, Germany
Biological Effects of Ionising Radiation- with Special Emphasis on Low Level Doses

Barry Wall
Health Protection Agency, Oxon, United Kingdom
Population exposures from medical x-rays in Europe – too high or too low?

Maria Zankl
Helmholtz Zentrum München, Germany
The Reference computational phantoms adopted by ICRP and ICRU

Rüdiger Matthes
Federal Office for Radiation Protection, Germany
Biological Effects of magnetic fields

David J. Brenner
Center for Radiological Research, Columbia University, USA
Cancer Risks at Very Low Radiation Doses: Why did the US and French National Academies Come to Directly Opposite Conclusions?

Theme 4. Image Processing, Biosignal Processing, Modelling and Simulation, Biomechanics

Sergio Cerutti
Polytechnic University, Milan, Italy
Information processing in biomedical signals: a probe to assess health and wellness conditions

Thorsten M. Buzug
University of Lübeck, Germany
Magnetic Particle Imaging – Challenges and Promises of a new Modality

Theme 5. Information and Communication in Medicine, Telemedicine and e-Health

Kunio Doi
Chicago Medical Center, USA
Computer-Aided Diagnosis in Medical Imaging: Achievements and Challenges

Olga Golubnitschaja
Friedrich-Wilhelms-Universität Bonn, Germany
Novel strategic trends in the European Predictive, Preventive & Personalized Medicine

Theme 6. Surgery, Minimal Invasive Interventions, Endoscopy and Image Guided Therapy

Brian Davies
Imperial College of Science, Technology and Medicine, London, United Kingdom
Robotic surgery; achieving costeffectiveness

Heinz-Otto Peitgen
Fraunhofer MEVIS, Bremen, Germany
The Liver as Role Model for Safer Surgery and Interventions

Richard E. Latchaw
University of California-Davis Medical Center, USA,
Accurate, quantifiable deposition of fluids and cells for human endovascular and intraparenchymal therapies-the development of catheters and other access devices

Theme 7. Diagnostic and Therapeutic Instrumentation, Clinical Engineering

Per Ask
Linköping University, Sweden
Recent developments in cardiovascular instrumentation

Steffen Leonhardt
RWTH Aachen University, Germany
New Trends in Respiratory Instrumentation

Theme 8. Micro- and Nanosystems in Medicine, Active Implants, Biosensors

Gerald Urban
Albert-Ludwigs-University of Freiburg, Germany
Micro- and Nanosensors for medical applications

Hans-Jürgen Wildau
Biotronik GmbH & Co KG Berlin, Germany
Active Implants: Remote Management of Local Therapy Delivery

Andreas Jordan
Magforce Nanotechnologies AG, Germany
Thermotherapy with magnetic nanoparticles: technology and clinical application

Andreas Manz
Albert-Ludwigs-University, Freiburg, Germany
20 years of Lab on a Chip technology- why bother?

Peter Fromherz
Max Planck Institute for Biochemistry, Munich, Germany
Semiconductor Chips with Nerve Cells and Brain Tissue

Günter W. Gross
University of North Texas, Denton, USA
High throughput microelectrode array platforms for quantitative pharmacology, toxicology and drug development

Theme 9. Neuroengineering, Neural Systems, Rehabilitation and Prosthetics

Todd Kuiken
Rehabilitation Institute of Chicago and Northwestern University, Chicago, USA,
Development of a neural machine interface for artificial limbs

Theodore W. Berger
USC Viterbi School of Engineering University of Southern California, USA
Toward Replacements Parts for the Brain: Biomimetic Microelectronics to Replace Cognition Lost to Damage or Disease

Phil Troyk
Illinois Institute of Technology
Designing Neural Prostheses: Contrasting Emerging Needs with Established Methodologies

Theme 10. Biomaterials, Cellular and Tissue Engineering

Dietmar Hutmacher
Queensland University of Technology, Kelvin Grove, Australia
A road map from bench to bedside for scaffold-based bone engineering

Jochen Guck
University of Cambridge, United Kingdom
Feeling for cells with light

Daniel Müller
TU Dresden, Germany
Quantitative analysis and manipulation of cell adhesion to molecular resolution

Theme 11. Biomedical Engineering for Audiology, Ophthalmology, Emergency & Dental Medicine

Claus-Peter Richter
Northwestern University, USA
Optical stimulation of neural tissue: is this the future for neural interfaces

Wolfgang Drexler
Cardiff University, United Kingdom
Where is retinal optical coherence tomography heading for?

Chung How Kau
Houston University, Texas
The future of imaging in dentistry

Theme 12. General Subjects

Lodewijk Bos
ICMCC, Utrecht, Netherlands
Computics in Medicine and Care

Theme 13. Special Topics and Workshops

Rolf D. Issels
Klinikum der Universität München-Großhadern, Germany
The HEAT is on in Cancer Therapy

John W. Wong
Department of Radiation Oncology and Molecular Radiation Sciences, Baltimore, USA
The New Frontier in Small Animal Radiation Research

Dietrich Habs
LMU München, Germany
Ultra-thin diamond foils and ultra-short pulse lasers for particle acceleration

Medical Keynote Speakers

Oncology:

Michael Baumann
Universität Carl Gustav Carus Dresden, Germany
Integrating biology with high technology to advance modern radiation

Radiology & Nuclear medicine:

Wolfgang Weber
Radiologische Universitätsklinik Freiburg, Germany
Molecular Imaging – from Bedside to Bench

Surgery & Intervention:

Hans-Peter Bruch
Klinik für Chirurgie des Universitätsklinikums Schleswig-Holstein, Germany
Technical aspects of minimally invasive surgery – current developments and needs for technical progress

Neurology, Neurosurgery, Rehabilitation:

Marcos Tatagiba
Eberhard Karls Universität Tübingen, Germany
Preservation and Recovery of Function in Modern Neurosurgery

Cardiology, Cardiovascular diseases:

Hugo A. Katus
Universitätsklinik Heidelberg, Germany
Challenges in Clinical Cardiology

Special Keynote Speakers

Michael Kaschke
Carl Zeiss Meditec AG
20 years of OCT in ophthalmology – a shining example of close cooperation between research, hospitals and industry

Eric Silfen
Philips Healthcare
Biomedical Innovation in Health Care

Tuesday, 08 September 2009

Hall 01 Hall 14b Hall 13a Hall 13b Hall 14a Hall 14c Hall 05 Hall 04a

Registration									
Scientific Session 1.1	Scientific Session 1.2	Scientific Session 1.3	Scientific Session 1.4	Scientific Session 1.5	Scientific Session 1.6	Scientific Session 1.7	Scientific Session 1.8		
07:30	08:15	08:30	08:45	09:00	09:15	09:30	09:45	10:00	
Keynote Brenner	Keynote Müller	Keynote Gross	Theme 03 BiolonRadLL	Theme 10 BiomechCell	Theme 06 ChipCellAna	Theme 02 MRT	Theme 02 X-RayMammo	Theme 04 BiosigProc	
Coffee Break									
Scientific Session 2.1	Scientific Session 2.2	Scientific Session 2.3	Scientific Session 2.4	Scientific Session 2.5	Scientific Session 2.6	Scientific Session 2.7	Scientific Session 2.8		
10:30	10:45	11:00	11:15	11:30	11:45	Welcome by the Presidents and Awards			
Med Keynote Baumann	Theme 10 BiomechCell	Theme 08 ChipCellAna	Theme 02 MRT	Theme 02 X-RayMammo	Theme 04 BiosigProc	Theme 03 PatExpRef	Keynote Kau	Theme 11 Dental	
Lunch Break									
13:30	13:45	14:00	14:15						14:30
Plenary Bentzen	Plenary Bortfeld								
Scientific Session 3.1	Scientific Session 3.2	Scientific Session 3.3	Scientific Session 3.4	Scientific Session 3.5	Scientific Session 3.6	Scientific Session 3.7	Scientific Session 3.8		
14:45	15:00	15:15	15:30	15:45	16:00	16:15	Coffee Break		
Keynote Webb	Keynote Wong	Keynote Jordan	Theme 01 IGRT/AdapRadio	Theme 13 SmallAnimal	Theme 08 Nanopartic	Theme 02 MRT	Theme 02 X-RayMammo	Theme 04 BiosigProc	
Coffee Break									
Scientific Session 4.1	Scientific Session 4.2	Scientific Session 4.3	Scientific Session 4.4	Scientific Session 4.5	Scientific Session 4.6	Scientific Session 4.7	Scientific Session 4.8		
17:00	17:15	17:30	17:45	18:00	18:15	18:30	Opening Ceremony		
Keynote Streffer	Keynote Guck	Keynote Manz	Theme 03 BiolonRadLL	Theme 10 TE/RM_Clinical	Theme 08 Nanopartic	Theme 01 IGRT/AdapRadio	Theme 02 CT	Theme 04 BiosigProc	
Networking at Night									

Tuesday, 08 September 2009

Hall 04b Hall 02 Hall 03 Hall 11 Hall 21a Hall 21b Hall 22a Hall 22b

Registration									
Scientific Session 1.9	Scientific Session 1.10	Scientific Session 1.11	Scientific Session 1.12	Scientific Session 1.13	Scientific Session 1.14	Scientific Session 1.15	Scientific Session 1.16		
07:30	08:15	08:30	08:45	09:00	09:15	09:30	09:45	10:00	
Theme 01 Brachythera	Theme 07 Injectifus	Theme 04 ImagSegReg	Theme 09 OrthotProsth	Theme 13 TumorTissEnv	Theme 13 IOMP&EFOMP	Theme 11 Audiology	Theme 12 HTA&Econom		
Coffee Break									
Scientific Session 2.9	Scientific Session 2.10	Scientific Session 2.11	Scientific Session 2.12	Scientific Session 2.13	Scientific Session 2.14	Scientific Session 2.15	Scientific Session 2.16		
10:30	10:45	11:00	11:15	11:30	11:45	Welcome by the Presidents and Awards			
Scientific Session 2.9	IAMBE Special Session	Theme 04 ImagSegReg	Theme 09 RehabRobo	Theme 10 Imag_TE/RM	Theme 13 IOMP_Rese	Theme 11 Ophthal IV	Theme 07 Dialy_Apher		
Lunch Break									
13:30	13:45	14:00	14:15						14:30
Plenary	Bentzen	Plenary	Bortfeld						
Scientific Session 3.9	Scientific Session 3.10	Scientific Session 3.11	Scientific Session 3.12	Scientific Session 3.13	Scientific Session 3.14	Scientific Session 3.15	Scientific Session 3.16		
14:45	15:00	15:15	15:30	15:45	16:00	16:15	Coffee Break		
Theme 01 Brachythera	Theme 12 AccredCertif	Theme 04 ImagSegReg	Theme 09 RehabRobo	Theme 10 DrugReITE/RM	Theme 07 Sleep	Theme 11 Ophthal V	Theme 07 Dialy_Apher		
Coffee Break									
Scientific Session 4.9	Scientific Session 4.10	Scientific Session 4.11	Scientific Session 4.12	Scientific Session 4.13	Scientific Session 4.14	Scientific Session 4.15	Scientific Session 4.16		
17:00	17:15	17:30	17:45	18:00	18:15	18:30	Opening Ceremony		
Theme 01 Immob&Posit	Theme 12 HealthT_Dev	Theme 04 ImagSegReg	Theme 09 RehabRobo	Theme 10 DrugReITE/RM	Theme 07 Sleep	Theme 11 Ophthal V	Theme 13 AtomationIM		
Networking at Night									

Wednesday, 09 September 2009

Hall 01 | Hall 14b | Hall 13a | Hall 13b | Hall 14a | Hall 14c | Hall 05 | Hall 04a

Registration									
Scientific Session 5.1	Scientific Session 5.2	Scientific Session 5.3	Scientific Session 5.4	Scientific Session 5.5	Scientific Session 5.6	Scientific Session 5.7	Scientific Session 5.8		
08:15	Keynote Boone	Keynote Hutmacher	Keynote Issels		Keynote Drexler				
08:45	Theme 02 X-RayMammo	Theme 10 StemCellBio	Theme 13 Hypertherm	Theme 01 IGRT/AdapRadio	Theme 11 Ophthal II Inst	Theme 04 BiosigProc	Theme 04 ImageAnaly	Theme 04 Mod&Simul	
Coffee Break									
Scientific Session 6.1	Scientific Session 6.2	Scientific Session 6.3	Scientific Session 6.4	Scientific Session 6.5	Scientific Session 6.6	Scientific Session 6.7	Scientific Session 6.8		
10:30	Med Keynote Weber								
11:00	Theme 02 Moleculmag	Theme 10 DrugReITE/RM	Theme 08 DrugDeliv	Theme 01 IGRT/AdapRadio	Theme 04 Mod&Simul	Theme 04 BiosigProc	Theme 04 ImageAnaly	Theme 04 Biomechanic	
Lunch Break									
13:30	Plenary Georgopoulos								
14:00	Plenary Kalender								
Scientific Session 7.1	Scientific Session 7.2	Scientific Session 7.3	Scientific Session 7.4	Scientific Session 7.5	Scientific Session 7.6	Scientific Session 7.7	Scientific Session 7.8		
14:45	Keynote Hennig	Keynote Zankl	Keynote Urban	Keynote Latchaw					
15:15	Theme 02 MRT	Theme 03 Dosim&Phant	Theme 08 Nanobiosens	Theme 06 ImaGuidInterv	Theme 04 Mod&Simul	Theme 04 BiosigProc	Theme 04 Biomechanic		
Lobbies									
Poster Session									
Munich at Night									

Wednesday, 09 September 2009

Hall 04b | Hall 02 | Hall 03 | Hall 11 | Hall 21a | Hall 21b | Hall 22a | Hall 22b

Registration								
Scientific Session 5.9	Scientific Session 5.10	Scientific Session 5.11	Scientific Session 5.12	Scientific Session 5.13	Scientific Session 5.14	Scientific Session 5.15	Scientific Session 5.16	
08:15								
08:30								
08:45	Theme 01 HadronTher	Theme 12 Compunetics	Theme 07 Anaesthes	Theme 02 Moleculmag	Theme 03 Dosim&Phant	Theme 13 ScientVisua	Theme 09 ModSimNeu	Theme 12 MedPhysEduc
Coffee Break								
Scientific Session 6.9	Scientific Session 6.10	Scientific Session 6.11	Scientific Session 6.12	Scientific Session 6.13	Scientific Session 6.14	Scientific Session 6.15	Scientific Session 6.16	
10:30								
10:45		Keynote Bos						
11:00	Theme 01 HadronTher	Theme 12 Compunetics	Theme 07 BioelecMSig	Theme 02 CT	Theme 03 Dosim&Phant	Theme 06 LaserInterv	Theme 09 ModSimNeu	Theme 11 Ophthal I
Lunch Break								
Lobbies								
Poster Session								
Munich at Night								

Thursday, 10 September 2009

Hall 01 Hall 14b Hall 13a Hall 13b Hall 14a Hall 14c Hall 05 Hall 04a

07:30	Registration								07:30
	Scientific Session 8.1	Scientific Session 8.2	Scientific Session 8.3	Scientific Session 8.4	Scientific Session 8.5	Scientific Session 8.6	Scientific Session 8.7	Scientific Session 8.8	
08:15	Keynote	Keynote							
08:30	Davies	Schmitz							
08:45	Theme 06	Theme 02	Theme 03	Theme 01	Theme 04	Theme 04	Theme 04	Theme 04	
09:00	ImaGuidInterv	US	Dosim&Phant	Dosimetry&Q/A	Mod&Simul	BiosigProc	ImageAnaly	Biomechanic	
09:15									
09:30									
09:45									
10:00	Coffee Break								10:00
	Scientific Session 9.1	Scientific Session 9.2	Scientific Session 9.3	Scientific Session 9.4	Scientific Session 9.5	Scientific Session 9.6	Scientific Session 9.7	Scientific Session 9.8	
10:30	Med Keynote		Keynote						
10:45	Bruch		Richter						
11:00	Theme 06		Theme 11	Theme 01	Theme 04	Theme 04	Theme 04	Theme 04	
11:15	ImaGuidInterv	Theme 13	Ophthtal V	Dosimetry&Q/A	Mod&Simul	BiosigProc	ImageAnaly	Biomechanic	
11:30									
11:45									
12:00									
12:15	Lunch Break								12:15
13:15	Lunch Break								13:15
13:30	Plenary								
13:45	Beebe								
14:00	Plenary								
14:15	Kikinis								
14:30	Lunch Break								14:30
	Scientific Session 10.1	Scientific Session 10.2	Scientific Session 10.3	Scientific Session 10.4	Scientific Session 10.5	Scientific Session 10.6	Scientific Session 10.7	Scientific Session 10.8	
14:45	Keynote	Keynote	Keynote						
15:00	Peitgen	Wall	Leonhardt						
15:15	Special Keynote	Theme 03	Theme 07	Theme 01	Theme 04	Theme 04		Theme 04	
15:30	Silfen	RadProtect	Monitoring	Dosimetry&Q/A	Mod&Simul	BiosigProc		Biomechanic	
15:45	Special Keynote								
16:00	Kaschke								
16:15									
16:30	Coffee Break								16:30
	Scientific Session 11.1	Scientific Session 11.2	Scientific Session 11.3	Scientific Session 11.4	Scientific Session 11.5	Scientific Session 11.6	Scientific Session 11.7	Scientific Session 11.8	
17:00	Keynote	Keynote	Keynote						
17:15	Ntziachristos	Matthes	Wildau						
17:30	Theme 02	Theme 03	Theme 08	Theme 01	Theme 04	Theme 04	Theme 04	Theme 04	
17:45	Opticlmag	BioNonlonRad	Activelmpln	Dosimetry&Q/A	Mod&Simul	BiosigProc	ImageAnaly	Biomechanic	
18:00									
18:15									
18:30									
18:45									
19:00									
20:00	Bavaria at Night								20:00
23.30	Bavaria at Night								23:30

Thursday, 10 September 2009

Hall 04b Hall 02 Hall 03 Hall 11a Hall 11b Hall 21a Hall 21b Hall 22a Hall 22b

07:30	Registration								07:30
	Scientific Session 8.9	Scientific Session 8.10	Scientific Session 8.11	Scientific Session 8.12	Scientific Session 8.13	Scientific Session 8.14	Scientific Session 8.15	Scientific Session 8.16	
08:15									
08:30									
08:45	Theme 01	InnoAward	Theme 02	Theme 07	Theme 07	Theme 10	Theme 05	Theme 09	Theme 12
09:00	IGRT/AdapRadio		CT	Lasers IM	Biolmpedance	DrugRelTE/RM	ImageProcVis	MovPostuAna	MBEinPrevent
09:15									
09:30									
09:45									
10:00	Coffee Break								10:00
	Scientific Session 9.9	Scientific Session 9.10	Scientific Session 9.11	Scientific Session 9.12	Scientific Session 9.13	Scientific Session 9.14	Scientific Session 9.15	Scientific Session 9.16	
10:30									
10:45									
11:00	Theme 01	InnoAward	Theme 02	Theme 04	Theme 07	Theme 03	Theme 05	Theme 09	Theme 11
11:15	TherapyPlan		US	CompBio&Phys (euHeart)	Biolmpedance	Dosim&Phant	EMR	MovPostuAna	Emergency
11:30									
11:45									
12:00									
12:15	Lunch Break								12:15
13:15	Lunch Break								13:15
13:30									
13:45									
14:00									
14:15									
14:30	Lunch Break								14:30
	Scientific Session 10.9	Scientific Session 10.10	Scientific Session 10.11	Scientific Session 10.12	Scientific Session 10.13	Scientific Session 10.14	Scientific Session 10.15	Scientific Session 10.16	
14:45									
15:00									
15:15	Theme 01	Theme 04	Theme 02	Theme 08	Theme 07	Theme 02	Theme 05	Theme 09	Theme 13
15:30	TherapyPlan	Mod&Simul	US	Nanobiosens	Biolmpedance	Opticlmag	Telemed	MovPostuAna	Electroperation
15:45									
16:00									
16:15									
16:30	Coffee Break								16:30
	Scientific Session 11.9	Scientific Session 11.10	Scientific Session 11.11	Scientific Session 11.12	Scientific Session 11.13	Scientific Session 11.14	Scientific Session 11.15	Scientific Session 11.16	
17:00									
17:15									
17:30	Theme 01	Theme 07	FhG	Theme 09	Theme 07	Theme 12	Theme 05	Theme 06	Theme 13
17:45	OptiTreatPlan	Monitoring		VisionProsth	Biolmpedance	TechEnhEduc	Telemed	Endoscopy	Electroperation
18:00									
18:15									
18:30									
18:45									
19:00									
20:00	Bavaria at Night								20:00
23.30	Bavaria at Night								23:30

Friday, 11 September 2009

	Hall 01	Hall 14b	Hall 13a	Hall 13b	Hall 14a	Hall 14c	Hall 05	Hall 04a	
07:30	Registration								
	Scientific Session 12.1	Scientific Session 12.2	Scientific Session 12.3	Scientific Session 12.4	Scientific Session 12.5	Scientific Session 12.6	Scientific Session 12.7	Scientific Session 12.8	
08:15	Keynote	Keynote	Keynote	Theme 01 Dosimetry&Q/A	Theme 04 Mod&Simul	Theme 04 Biomechanic	Theme 04 Flow	Theme 04 Immob&Posit	
08:30	Doi	Kuiken	Cerutti						
08:45	Theme 05 CompuAidDiag	Theme 09 NeurallInterface	Theme 04 BiosigProc						
09:00									
09:15									
09:30									
09:45									
10:00	Coffee Break								
	Scientific Session 13.1	Scientific Session 13.2	Scientific Session 13.3	Scientific Session 13.4	Scientific Session 13.5	Scientific Session 13.6	Scientific Session 13.7	Scientific Session 13.8	
10:30	Med Keynote Tatagiba	Theme 09 NeurallInterface	Theme 04 BiosigProc	Theme 01 Dosimetry&Q/A	Theme 04 Mod&Simul	Theme 02 ImagImp&Sou	Theme 07 CardioVascSy	Theme 04 ModAnalCardio	
10:45									
11:00									
11:15	Theme 13 Writing								
11:30									
11:45									
12:00									
12:15	Lunch Break								
13:15	Lunch Break								
13:30	Plenary Waegemann								
13:45									
14:00	Plenary Fratzl								
14:15									
14:30									
	Scientific Session 14.1	Scientific Session 14.2	Scientific Session 14.3	Scientific Session 14.4	Scientific Session 14.5	Scientific Session 14.6	Scientific Session 14.7	Scientific Session 14.8	
14:45	Theme 05 Telemed	Keynote Berger	Keynote Buzug	Keynote	Theme 04 Mod&Simul	Theme 02 ImagImp&Sou	Theme 07 CardioVascSy	Theme 04 ModAnalCardio	
15:00									
15:15		Theme 09 NeurallInterface	Theme 04 BiosigProc	Theme 01 AdvBeamDel					
15:30									
15:45									
16:00									
16:15									
16:30	Coffee Break								
	Scientific Session 15.1	Scientific Session 15.2	Scientific Session 15.3	Scientific Session 15.4	Scientific Session 15.5	Scientific Session 15.6	Scientific Session 15.7	Scientific Session 15.8	
17:00	Keynote Golubnitschaja	Keynote Troyk	Keynote Fromherz	Theme 01 DoseCalcul	Theme 04 Mod&Simul	Theme 02 ImagImp&Sou	Theme 07 CardioVascSy	Theme 04 ModAnalCardio	
17:15									
17:30	Theme 05 CompuAidDiag	Theme 09 BrainComplnt	Theme 08 Lab-on-Chip						
17:45									
18:00									
18:15									
18:30									
18:45									
19:15	Innovation at Night Get together								
22:00	Innovation at Night Get together								

Friday, 11 September 2009

	Hall 04b	Hall 02	Hall 03	Hall 11	Hall 21a	Hall 21b	Hall 22a	Hall 22b	
07:30	Registration								07:30
	Scientific Session 12.9	Scientific Session 12.10	Scientific Session 12.11	Scientific Session 12.12	Scientific Session 12.13	Scientific Session 12.14	Scientific Session 12.15	Scientific Session 12.16	
08:15	Theme 01 Brachythera	Theme 07 Monitoring	Theme 07 Biolmpedance	Theme 02 SPECT&PET	Theme 03 RadProtect	Theme 05 Telemed	Theme 06 Endoscopy	Theme 08 ActiveImplan	
08:30									
08:45									
09:00									
09:15									
09:30									
09:45									
10:00	Coffee Break								10:00
	Scientific Session 13.9	Scientific Session 13.10	Scientific Session 13.11	Scientific Session 13.12	Scientific Session 13.13	Scientific Session 13.14	Scientific Session 13.15	Scientific Session 13.16	
10:30	Theme 01 Brachythera	Theme 07 Monitoring	Theme 07 ClinicalEng	Theme 02 SPECT&PET	Theme 03 RadProtect	Theme 05 Telemed	Theme 06 MinInvSurg	Theme 12 Educ&Train	
10:45									
11:00									
11:15									
11:30									
11:45									
12:00									
12:15	Lunch Break								12:15
13:15	Lunch Break								13:15
13:30									
13:45									
14:00									
14:15									
14:30									
	Scientific Session 14.9	Scientific Session 14.10	Scientific Session 14.11	Scientific Session 14.12	Scientific Session 14.13	Scientific Session 14.14	Scientific Session 14.15	Scientific Session 14.16	
14:45	Theme 01 BioModelRT	Theme 04 Flow	Theme 07 ClinicalEng	Theme 02 ImagingMisc	Theme 03 RadProtect	Theme 05 CompuAidDiag	Theme 06 MinInvSurg	Theme 12 Educ&Train	
15:00									
15:15									
15:30									
15:45									
16:00									
16:15									
16:30	Coffee Break								16:30
	Scientific Session 15.9	Scientific Session 15.10	Scientific Session 15.11	Scientific Session 15.12	Scientific Session 15.13	Scientific Session 15.14	Scientific Session 15.15	Scientific Session 15.16	
17:00	Theme 01 AdvBeamDel	Theme 04 Flow	Theme 07 ClinicalEng	Theme 02 ImagingMisc	Theme 03 RadProtect	Theme 03 BiolonRadRT	Theme 06 RobotsManThe	Theme 12 Educ&Train	
17:15									
17:30									
17:45									
18:00									
18:15									
18:30									
18:45									
19:15	Innovation at Night Get together								19:15
22:00	Innovation at Night Get together								22:00

Saturday, 12 September 2009

Hall 01 | Hall 14b | Hall 13a | Hall 13b | Hall 14a | Hall 14c | Hall 05 | Hall 04a

Registration										
Scientific Session 16.1	Scientific Session 16.2	Scientific Session 16.3	Scientific Session 16.4	Scientific Session 16.5	Scientific Session 16.6	Scientific Session 16.7	Scientific Session 16.8			
08:15	Keynote	Keynote	ESEM Special Sssion	Theme 01 DoseCalcul	Theme 04 Mod&Simul	Theme 04 BiosigProc	Theme 04 ModAnalCardio	Theme 02 ImagImp&Sou	08:15	
08:30	Ask	Habs							08:30	
08:45	Theme 07	Theme 13							08:45	
09:00	CardioVascSy	LaserGenPho							09:00	
09:15									09:15	
09:30			09:30							
09:45			09:45							
Coffee Break										
Scientific Session 17.1	Scientific Session 17.2	Scientific Session 17.3	Scientific Session 17.4	Scientific Session 17.5	Scientific Session 17.6	Scientific Session 17.7	Scientific Session 17.8			
10:30	Med Keynote	ESEM Special Sssion	Theme 01 DoseCalcul	Theme 04 VirtualReal	Theme 04 BiosigProc	Theme 04 ModAnalCardio	Theme 04 BiosigProc	Theme 08 Lab-on-Chip	10:30	
10:45	Katus								10:45	
11:00	Theme 07								Theme 06	11:00
11:15	CardioVascSy								SoftTissNav	11:15
11:30										11:30
11:45			11:45							
12:00			12:00							
Lunch Break										
13:30	Plenary								13:30	
13:45	Vannier								13:45	
14:00	Plenary								14:00	
14:15	Abe								14:15	
14:30									14:30	
14:45	Closing Ceremony								14:45	
15:15									15:15	
19:00	Presidents Dinner								19:00	
22:00									22:00	

Saturday, 12 September 2009

Hall 04b | Hall 02 | Hall 03 | Hall 11 | Hall 21a | Hall 21b | Hall 22a | Hall 22b

Registration									
Scientific Session 16.9	Scientific Session 16.10	Scientific Session 16.11	Scientific Session 16.12	Scientific Session 16.13	Scientific Session 16.14	Scientific Session 16.15	Scientific Session 16.16		
08:15	Theme 08 Lab-on-Chip	Theme 04 Flow	Theme 07 ClinicalEng	Theme 12 HT&PatSafety	Theme 03 BiolonRadRT	Theme 07 Monitoring	Theme 06 CatheterInter	Theme 12 Educ&Train	08:15
08:30									08:30
08:45									08:45
09:00									09:00
09:15									09:15
09:30	09:30								
09:45	09:45								
Coffee Break									
Scientific Session 17.9	Scientific Session 17.10	Scientific Session 17.11	Scientific Session 17.12	Scientific Session 17.13	Scientific Session 17.14	Scientific Session 17.15	Scientific Session 17.16		
10:30	Theme 08 Lab-on-Chip	Theme 04 Flow	Theme 07 ClinicalEng	Theme 12 HT&PatSafety	Theme 03 BiolonRadRT	Theme 03 RadProtect	Theme 06 RobotsManThe	Theme 12 Educ&Train	10:30
10:45									10:45
11:00									11:00
11:15									11:15
11:30									11:30
11:45	11:45								
12:00	12:00								
Lunch Break									
13:30									13:30
13:45									13:45
14:00									14:00
14:15									14:15
14:30									14:30
14:45	Closing Ceremony								14:45
15:15									15:15
19:00	Presidents Dinner								19:00
22:00									22:00

Social Program

Discover the nightlife of Munich, Germany's most popular destination that has something to offer to everyone, from tradition and beer gardens to

Bavaria at Night

The Bavarian Evening offers a delightful opportunity to experience the culture of the conference host country.

The famous Löwenbräukeller Festival Hall invites guests to meet and mingle with friends and



colleagues from around the world while enjoying a hearty Bavarian meal or delicious international specialties. Add the outstanding beer, traditional music and dancing, and you'll have a perfect evening!

The Löwenbräukeller is the restaurant complex with enormous beer garden originally located next to the huge Löwenbräu Brewery, which has since moved to a new site. The historic building opened its doors on June 14, 1883 with a seating capacity of over 8,000. Although most of the building was destroyed during a bombing raid in 1944, it was rebuilt in a smaller version (2,500 seats) in the same style. Today, the Festival Hall gives guests a true taste of the traditional and quite unique Munich beer hall culture. The Hall is conveniently located next to the local subway (U-Bahn) station at Stiglmaier Platz right across the street.

Date: Thursday, September 10, 2009

Time: 8:00 p.m.

Location: Löwenbräukeller Festival Hall in Munich

Costs: 50.00 euros incl. VAT (incl. drinks and food)

Dress: Traditional or casual

high-tech and nightlife. The following social events can be booked together with your registration.

MUNICH AT NIGHT

Munich Evening - trendy conference night

Munich is not only known for its many Bavarian traditions, but also for its glamorous high society and trendy nightlife. One of the most popular night clubs right in the city center will be exclusively reserved for



our trendy conference night "Munich at Night"! Join your colleagues from around the world for a relaxed evening enjoying the best music, exclusive atmosphere and refreshing drinks in this unique ambience – either on the dance floor or simply chilling out in the comfortable lounge.

DATE: Wednesday, September 9, 2009

TIME: 10:00 p.m.

LOCATION: Most trendy lounge/night club

COSTS: 30.00 euros incl. VAT

(includes entrance fee + welcome drink)

DRESS: Casual

Companion Tours

Few cities provide as many opportunities for cultural activities and historic sites as Munich. In addition to the social events there are various offers and opportunities to explore the famous city and its

attractive surroundings. Please see table below for all available companion tours. All tours will be operated by professional tour guides. The language will be English.

	Mon, Sept 7	Tue, Sept 8	Wed, Sept 9	Thu, Sept 10	Fri, Sept 11
full day	Neuschwanstein	Linderhof	Neuschwanstein	Linderhof	
morning	Munich at a glance	Best of Munich Munich at a glance	Best of Munich Historical walk	Best of Munich Spirit of Munich	Pinakothek der Moderne Historical walk
afternoon	Historical walk	Spirit of Munich	Deutsches Museum Spirit of Munich	Historical Walk Pinakothek der Moderne	Deutsches Museum



For more details and for online registration please go to www.wc2009.org.

All tours must be booked through EUROKONGRESS GmbH

EUROKONGRESS GmbH

Schleissheimer Str. 2

D- 80333 München

Phone: +49 (0)89- 210 98 60

wc2009@eurokongress.de

Registration Fees

World Congress 2009 Registration Fee

Category	Early Bird until July 15,	Regular after July 15
Member	550	650
Non-Member	660	780
Speaker	550	not available
Students	250	300
Day Registration	280	320
Accomp. Person	90	90

Speaker: Submission of papers implies the author's willingness to register at the congress and present the paper. After a paper is accepted for presentation, one of the authors must complete a registration form and pay the appropriate fee before the paper can be published in the proceedings. One author's registration will guarantee publication of one accepted paper. Speakers with student status have to pay students registration fee.

Students are all individuals in the medical-technical community that are not older than 35 years. Proof of identity (copy of student ID) required.

Member is defined as a person who is a member of member society of IFMBE and IOMP. Please send a copy of your Membership Card to vde-conferences@vde.com.

Registration fee includes the following services:

- Free entry to all sessions
- All official documentation including program, CD-Rom of proceedings, list of participants etc.
- Invitation to the glamorous Opening Ceremony on Tues, Sept 8 (food and drinks included)
- All morning and afternoon coffee breaks
- Invitation to „WC2009 Innovation at Night“ Awards on Fri, Sept 11 (food and drinks included)
- Satchel

Registration Fees for Monday Courses

Monday courses will be three time blocks of 105 minutes each from 10:30 am-5:30 pm.

Registration fee* for participants of Monday courses
150€ (members)
175€ (non-members)

*Registration fee includes courseware, lunch and drinks. Registration for World Congress 2009 is not included.

World Congress & Monday Courses

Payment for registration must be made in EUR. The congress fee has to be fully paid in advance.

The following methods of payment are accepted:

- By credit card authorization

In case of registration on-site the following methods of payment are accepted:

- Cash payment on-site in EUR (€)
- By credit card authorization

To register for the World Congress please go to www.wc2009.org and click on registration.

To register for one of the courses please go to www.wc2009.org and click on Monday Courses.

Contact: vde-conferences@vde.com.

List of Exhibitors

- | | |
|---|---|
| AAPM, USA | LAP GmbH, Lüneburg |
| A2 J Laser Technology | Materialise GmbH, Oberpfaffenhofen |
| AB Mimator, Uppsala | MAVIG GmbH, München |
| Accuray, Sunnyvale, CA | Mirion Technologies, Irvine |
| Aesculap AG, Tuttlingen | NDI Europe GmbH, Radolfzell |
| BRAINLAB Sales GmbH, Feldkirchen | nukmed konstruktion, Tülaue-Fahrenhorst |
| Bundesministerium für Bildung und Forschung, Berlin | Orfit Industries N.V., Wijnegem |
| Carl Zeiss Meditec, Jena | Philips GmbH, Hamburg |
| Deutsche Kommission Elektrotechnik Elektronik Informationstechnik im DIN und VDE, Frankfurt | PTW-Freiburg, Freiburg |
| DOSISOFT, Cachan | QRM GmbH, Moehrendorf |
| Dr. Sennewald Medizintechnik, München | RADCAL Corporation, Monrovia, CA01016 |
| Elekta GmbH, Hamburg | Radiological Imaging Technology, Colorado Springs |
| Euromechanics Medical GmbH, Schwarzenbruck | RTI Electronics AB, Mölndal |
| Fluke Biomedical, Cleveland, OH | Schuster Medizinische Systeme GmbH, Forchheim |
| Forster Bau GmbH, Ingolstadt | Siemens Healthcare, Erlangen |
| Fraunhofer Gesellschaft, München | Springer, Heidelberg |
| Gammex-RMI GmbH, Gießen | Sun Nuclear Corporation, Melbourne, Florida |
| GCTechnology GmbH, Buch am Erlbach | Taylor & Francis, Abingdon |
| GEMÜ Medical, Rotkreuz | Theranostic GmbH, Solingen |
| HEK medical GmbH, Lübeck | TomoTherapy Inc., Madison |
| Helmholtz-Zentrum München, Neuherberg | TSI GmbH, Aachen |
| IBA Dosimetry GmbH, Schwarzenbruck | Unfors Instruments AB, Billdal |
| IBt-BEBIG, Seneffe | Varian Medical Systems International AG, Zug |
| Institute of Physics and Engineering in Medicine, York | VDE Institut, Frankfurt |
| Integra Lifesciences Services SAS | Verlag Walter de Gruyter GmbH & Co KG, Berlin |
| IOP Publishing, Bristol | |

Recruiting opportunities

Recruiting Point**

There will be a Recruiting Point at the Congress, designed as an exhibition stand. Recruiting partners will be represented here with their logo and can station a contact at the stand. The Recruiting Point will distribute the Recruiting Partners' information materials, support the matchmaking process, and function as a central access and meeting point for partners and interested individuals.

Recruiting Forum**

As part of the Industry Exhibition, there will be a separate Forum area with ca. 100-150 seats. The Recruiting Partners can showcase their organization here in 20-minute presentations. These presentations will take place parallel to the scientific sessions. Depending on the demand, the various Congress breaks – in particular the luncheon break – can also be booked for presentations. The Recruiting Partners can book their time slots prior to the opening of the Congress.

At the beginning of the M-StudentDay, there will be an introductory session offering general overviews of the industry, careers and possibilities in the industry. The World Congress Team will provide the speaker.

Matchmaking **

Approximately eight weeks prior to the opening of the World Congress 2009, the Recruiting Partners will receive an Excel file with the names and e-mail addresses of the doctoral candidates and students presenting at the Congress. The file will also contain the title of the presentation, its assigned Congress theme and track, and an abstract. A CD ROM with the complete contribution to the Congress book will also be included. On the basis of this information, the Recruiting Partner can directly contact the interested individuals to make an appointment or call attention to their own presentation.

Exhibitors Lounge

Exhibiting Recruiting Partners will have an opportunity to hold individual or group talks with interested parties in a separate room with controlled access. Access control will be via the ID badges of the Recruiting Partners, who may bring up to three guests at a time. The lounge will be open throughout the recruiting period and accessible only to exhibitors who have purchased the "Exhibitor Recruiting Premium Package" or the "Exhibitor's Lounge" as an individual service.

**Applies to exhibitors who have purchased the "Exhibitor Recruiting Premium Package" and non-exhibitors who have purchased the "Recruiting Premium Package."

For Exhibitors

(with a minimum participation of 2,520.- €)

Individual Services

- Exhibitor's company name and logo in the sponsor and exhibitor register linked to the exhibitor's home page: 500.-€
- Logo in the sponsor and exhibitor register in the Congress program: 300.-€
- Advertisement in the Congress program (1/4 page, 4-color): 1,000.-€
- Advertisement in the participants' register (1/1 page, 4-color): 750.-€
- Flyer in participant bag (max. 1 page DIN A4), max. 10 companies: 1,000.-€
- Exhibitor's Lounge (free entrance and coffee breaks): 500.-€
- Company presentation at the Recruitment Forum (20 min.), 1 day: 1,000.-€
- Company presentation at the Recruitment Forum (20 min.), 2 days: 1,500.-€
- Lanyards for all participants 5,000-7,500.- €

„Recruiting Premium“ Package: 2,500.- €

- Exhibitor's company name and logo in the sponsor and exhibitor register linked to the exhibitor's home page:
- Logo in exhibitor register in the Congress program:
- Company presentation in Recruiting Forum, 2 days:
- Recruiting Point
- Matchmaking
- Exhibitor's Lounge

For Non-exhibitors

„Exhibitor Recruiting Premium“ Package: 4,000.- €

- Company name and logo in the sponsor/exhibitor/recruiting register linked to the company's home page:
- Logo in exhibitor register in the Congress program:
- Company presentation in Recruiting Forum, 2 days:
- Recruiting Point
- Matchmaking



All prices are subject to 19% VAT.

For more details please go to www.wc2009.org

Booking through
EUROKONGRESS GmbH

EUROKONGRESS GmbH
Schleissheimer Str. 2
D- 80333 München
Phone: +49 (0)89- 210 98 60
wc2009@eurokongress.de

General information

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Stresemannallee 15

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Phone: +49 (0)69 - 63 08-229 /- 477

Fax: +49 (0)69 - 96 31- 52 13

Email: wc2009@vde.com

www.vde.com

Hotels, Exhibition & Sponsorship

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Phone: +49 (0)89/210 98 60

wc2009@eurokongress.de

Congress Website

For more information, please visit our website:

www.wc2009.org

Congress Venue

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CENTER MUNICH

A business center is on service daily

from 9 a.m. to 5 p.m.

Phone, fax, internet access, printing services and

WiFi access are available

ICM – Messe München GmbH

Messegelände

D-81823 München

www.icm-muenchen.de

Destination Munich

Welcome to Munich, often called 'the city with a heart', which is Germany's most popular destination and has something to offer to everyone, from culture, high-tech and parks to nightlife, architecture, beer gardens or the nearby mountains and lakes.



Accommodations

A wide variety of hotel rooms in various categories has been reserved by our exhibition & sponsorship organizer. For more details please visit www.wc2009.org

Companion tours

Few cities provide as many opportunities for cultural activities and historic sites as Munich. In addition to the scientific program of the congress, there will be various offers and opportunities to explore the famous city and its attractive surroundings. www.wc2009.org

Congress language

All scientific sessions will be held in English. There will be no simultaneous translation.

Currency

The official currency in Germany is the euro (EUR). Standard credit cards (Mastercard, American Express, VISA) are accepted in hotels, department stores and restaurants. Currently (May 2009) the exchange rate is approx. 1 EUR = 1,36 USD

Electricity

Power supply is 230 V AC, 50 Hz

Insurance

The organizers may not be held responsible for any injury to participants or damage, theft and loss of personal belongings. Participants should therefore make their own insurance arrangements.

Shopping

Munich is an ideal city to go on a leisurely stroll through the shops, Viktualienmarkt, Kaufinger Strasse, Die Fünf Höfe just to name a few of them. For more details please visit www.munich.de

Time zone

GMT (UTC) +01:00

Transportation

By air:

The Munich Airport is the second largest international airport in Germany. It is located 28 km northeast of the city center and offers both bus and train connections. For details please see www.munich-airport.de.

Direct taxi rides from the airport to the ICM are offered at a fixed rate (51 € - May 2009).

By train:

The Main Train Station (Hauptbahnhof) is located in the center of Munich, only approximately 2 km from the central square (Marienplatz). More than 800 long-distance trains and regional trains arrive and depart every day. Connection to the ICM is via U 2 subway line (ca. 20 min) or by taxi.

By car:

If you travel to Munich by car, signs throughout the greater Munich area will guide you to the New Munich Trade Fair Center/ICM.

Detailed information on transportation will be provided in the final program and on the Congress Website.

Visa/Letter of confirmation

Nationals from some countries may require a visa to enter Germany. Please check with the German Embassy in your country. If documentation or a letter of confirmation is required, please contact the congress organizer for support of a visa application after having registered for the congress.

Weather

The weather in Munich in September is still beautiful and warm. However, there may be chilly and rainy days. The temperature can range between 10C° and 25C°. Please check the actual weather on www.weather.com

Hotels:

Special room allotments have been reserved for the congress in various hotels (from hostels to four star hotels) around the congress venue and in the city center. For online reservation please go to www.wc2009.org and complete the registration form. Please note that the hotel rooms will be allocated on a "first-come, first-serve" basis.

Please address any reservation, change, cancellation or inquiry to :

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Schleissheimer Str. 2

D- 80333 München

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wc2009@eurokongress.de

Program contents and dates may be subject to change.
Most recent information can be found on: www.wc2009.org

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