ORGANISING BODIES

EFOMP European Federation of Organisations for Medical Physics

Udine University Hospital "S. Maria della Misericordia" AIFM Italian Association of Medical Physics ESMRMB European Society of Magnetic Resonance in Medicine and Biology

With the sponsorship of:

- Udine University, Faculty of Medicine
- SIRM Magnetic Resonance Section
- SISSA International School for Advanced Studies
- ICTP International Centre for Theoretical Physics
- AIFM Medical Physics School "P. Caldirola"

SCIENTIFIC COMMITEE

Massimo Bazzocchi, Udine, I (Udine University)

Stelios Christofides, Nicosia, Cy (EFOMP)

Maria Assunta Cova, Trieste, I (SIRM)

Paolo Ferrari, Trento, I (AIFM)

Gisela Hagberg, Roma, I (AIFM)

Renata Longo, Trieste, I (ICTP, Trieste University)

Renato Padovani, Udine, I (AOUUD)

Alfonso Ragozzino, Napoli, I (SIRM)

Raffaella Rumiati, Trieste, I (SISSA)

Klaus Scheffler, Base, CH (ESMRMB)

Fritz Schick, (ESMRMB)

Oliver Speck, G (ESMRMB)

Alberto Torresin, Milan, I (EFOMP)

Michela Tosetti, Pisa, I (AIFM)

ORGANISING COMMITEE

Marco Band, Faustino Bonutti, Margherita Crespi, Claudio Foti, Marta Maieron, Maria Rosa Malisan, Eugenia Moretti, Annalisa Trianni

Conference Chairman

Renato Padovani

Med. Phys. Dpt., University Hospital, Udine, Italy E-mail: padovani.renato @aoud.sanita.fvg.it

IMPORTANT DATES

- Abstract submission deadline 15 June 2010
- Notification of abstract acceptance 30 June 2010
- Early Registration deadline 15 July 2010

GENERAL INFORMATION

Venue

Congress Centre HypoBank Via Alpe Adria, 2, 33010 Tavagnacco Udine Italy

Registration fees	Early Registration	Late Registration	
Members	200€	250€	
Junior Members	100€	150€	

The fee includes the book of abstracts, proceedings, coffees and lunches.

Refresh course: registration fee includes course lectures. The cost of the social dinner is $50 \in$.

Registration and abstract submission

Registration and abstract forms can be downloaded at congress website www.udine2010.fisicamedica.org

Continuous Programme Development (CPD)

The scientific sessions and the refresher courses will be accreditated according to Italian regulation (ECM) and EFOMP policy.

Accommodation

Rooms have been blocked in different hotels. Information on conference website www.udine2010.fisicamedica.org. For booking please contact the hotel of your choice directly, by email or fax.

For information

MD STUDIO CONGRESSI

Via Roma, 8, 33100 - Udine (Italy)

Tel.: +39 0432 227673 Fax: +39 0432 507533

E-mail to: info@mdstudiocongressi.com















IV European Conference of Medical Physics on

Advances in
High Field
Magnetic Resonance
Imaging

Udine, Italy 23–25 September 2010

SCIENTIFIC PROGRAMME

CO	NFERENCE – PROGRAMME *
THURSI	DAY 23
11.00	OPENING CEREMONY
	ON I - Development of methods and technology for high- Christofides, O.Speck
11.30	Travelling wave MR - R. Pohmann (D)

SESSIO	I - Development of methods and technology for high-	field MRI
<u>Chair</u> : S.	Christofides, O.Speck	

13 00	Lunch
12.30	Novel pulse sequence approaches addressing high-field limits - O. Speck (D)
12.00	Novel motion correction techniques - M. Zaitsev (D)
11.30	Travelling wave MR - R. Pohmann (D)

SESSION II - Development of methods and technology for high-field MRI Chair: F. Schick, M. Tosetti

Design of High Field Magnets and MR Scanners for Rigmedical

14.00	Use - G. Hurst (USA)
14.30	Clinical MultiTransmit MRI - The Why and The How P. Harvey (NL)
15.00	Parallel transmission: current and future applications of multi- dimensional RF pulses - <i>U. Katscher (D)</i>
15.30	7 T Italian project - <i>M. Tosetti (I)</i>
16.00	Ultra High field MRI of the future - F. Schmitt (D)
16.30	Coffee Break

FRIDAY 24

SESSION III - Recent advancements in MR applications Chair: M. Bazzocchi, M. A. Cova

9.00	Novel contrast media - S. Aime (I)
9.30	MRI-guidance in surgery - M. Skrap (I)
10.00	Improved imaging of joints at higher fields - S. Trattnig (A)
10.30	Coffee Break

ORAL PRESENTATIONS

17.00 ORAL PRESENTATIONS

12.30 Lunch

SESSION IV - Neuroimaging Chair: M. Skrap, P. Ferrari

Neuroimaging: anatomy - G. Basso (I)

CONFERENCE - PROGRAMME *

15.15	Coffee Break
15.00	Combining behavioral, rTMS and fMRI data in the understanding of the role of Right temporal parietal junction during emotional egocentricity bias - <i>G. Silani (CH)</i>
14.35	Anatomical and spatial components in imitation of intransitive actions - R. Ruminati (I)
14.10	Cortical structure observed by phase contrast at high fields - R. Pohmann (D)

SESSION V - Quality Assurance Chair: A. Torresin, F. Levrero

15.40	Geometric accuracy, functional sensitivity and specificity: optimization experiences for human functional neuroimaging at 4 T - <i>J. Jovicich (I)</i>
16.05	Quality of fMRI studies - P. Ferrari (I)

16.30 ORAL PRESENTATIONS

SATURDAY 25

SESSION VI - Safety Issues and Regulation Chair: P. Allisy-Roberts, P. Vecchia

9.00	Protection of patients in MRI: the position of ICNIRP - P. Vecchia (I)
9.30	Regulation of occupational EMF exposure in MRI - where are we? - S. Keevil (UK)
10.00	The Medical Physics Expert for Non-Ionizing Radiation Applications in the Healthcare Environment - <i>P. Allisy-Roberts (F)</i>
	ODAL DDESENTATIONS

ORAL PRESENTATIONS

11.00 | Coffee Break

SESSION VII - Educating and training - ROUND TABLE

Moderators: O.Speck (ESMRMB), S. Christofides (EFOMP)	
11.30	EFOMP-ESR Medical Physics Education Guidelines - W. Van der Putten (IR)
	Education and Training of Medical Physicists IOMP Recommendations - F. Nussling (D)
	MRI Physics Education for Diagnostic Radiographers - an initial study - C. Caruana (Malta)
	EMIT project for e-Training in Medical Imaging (MRI module) - S. Tabakov (I)
13.00	Closing ceremony

REFRESH COURSE - PROGRAMME

WEDNESDAY 22

Introduction to MR techniques: from spins to image contrast		
Chair: A. Torresin		

14.00	Contrast mechanisms (T1 T2 T2*) - M. Cercignani (I)
15.00	Basic Hardware: magnet, gradients and RF coils - G. Hagberg (I)
16.00	Coffee Break
16.30	Image formation in MR imaging: from k-space to parallel imaging J. Bittoun (F)
17.30	Discussion

THURSDAY 23

Introduction to MR techniques: from spins to image contrast Chair: G. Hagberg

8.00	Radio Frequency Coils: Basic Principles and Advanced Applications - <i>M. Alecci (I)</i>
9.00	Origins of Image distortion and artifacts - J. Andersson (UK)
10.00	Changes in MR physics when moving to higher field strengths: drivers for methods and technology development - <i>F. Schick (D)</i>

FRIDAY 24

Introduction to scientific sessions

Chair: M. Tosetti

8.00	High Field MR applications: what can we expect? - O. Speck (D)
8.45	Discussion

Guided Excercise

Chair: O. Speck, M. Tosetti

17.30	Susceptibility-weighted imaging imaging and data processing R. Bowtell (UK)
18.30	Discussion

SATURDAY 25

Introduction to scientific sessions

Chair: R. Longo

	-
8.00	Safety at high field – where do we stand? - S. Keevil (UK)
8.45	Discussion

(*) this short programme includes only the invited presentations