

# First Announcement













**PRAGUE 2018** 

## Welcome

Dear colleagues,

it is a great pleasure and honour for The Czech Society for Biomedical Engineering and Medical Informatics and for the Czech Association of Medical Physicists to be the host societies and organizers of the 2018 World Congress on Medical Physics and Biomedical Engineering.

The Congress will be held in Prague, the capital of the Czech Republic, in the beginning of June 2018. The Congress is represented by the Congress Organizing Committee (COC) and is organized in a close collaboration with the international societies IUPESM, IFMBE and IOMP represented by the Congress Coordinating Committee (CCC).

This triennially organized joint meeting of medical physicists, biomedical engineers and adjoining health care professionals is a unique opportunity to liaise with your professional colleagues from all over the world, learn and share your knowledge, and discuss the latest research outcomes and technological advancements as well as new ideas in both medical physics and biomedical engineering field. Besides the purely scientific and technological topics, the 2018 Congress will also focus on other aspects of our professional involvement in health care, such as the education and training, the accreditation and certification, the health technology assessment or the patient safety.

Scientific sessions, plenary lectures, poster sessions, keynote lectures, continuing education sessions and special sessions will be the forms of the Congress events. These scientific meetings will be supplemented with exhibitions and presentations of the manufacturers, innovators and vendors, both local and global.

Dear colleagues, we do hope that the 2018 World Congress on Medical Physics and Biomedical Engineering in Prague will become a memorable event both professionally and socially to all participants and we are very much looking forward to meet you in person.

On behalf of the COC

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Jaromír Cmíral, Ing., PhD., DSc.

COC Co-chair (Biomedical Engineering)

Libor Judas, RNDr., PhD.

1. Julies

COC Co-chair (Medical Physics)

# **Organizers**

Czech Society for Biomedical Engineering and Medical Informatics

**Member of Czech Medical Association JEP**Prague, Czech Republic

**Czech Association of Medical Physicists**Prague, Czech Republic

## **Important Dates**

September 1, 2017

Call for Abstracts opens September 1, 2017

**Registration opens** 

November 15, 2017

**Abstract Submission Deadline** 

December 31, 2017

**Authors Notification of Abstract Acceptance** 

January 31, 2018

**Full Papers Submission Deadline** 

# **Main Topics**

- 1 Diagnostic Imaging
- Image Processing 2
- 3 Information Technology in Healthcare
- 4 Modelling and Simulation
- BME and MP Education, Training and Professional Development 5
- 6 Patient Safety
- 7 Accreditation and Certification
- 8 Health Technology Assessment
- 9 **Biosignals Processing**
- 10 Biomechanics, Rehabilitation and Prosthetics
- 11 Minimum Invasive Surgery, Robotics, Image Guided Therapies, Endoscopy
- 12 Diagnostic and Therapeutic Instrumentation
- 13 Micro- and Nanosystems, Active Implants, Biosensors
- 14 Neuroengineering, Neural Systems
- 15 Biomaterials, Cellular and Tissue Engineering, Artificial Organs
- 16 Assistive Technologies
- 17 Biological Effects of Electromagnetic Fields
- 18 Clinical Engineering
- 19 Radiation Oncology Physics and Systems
- 20 Dosimetry and Radiation Protection
- 21 Advanced Technologies in Cancer Research and Treatment
- 22 Biological Effects of Ionizing Radiation
- 23 Nuclear Medicine and Molecular Imaging

# **Invited Speakers for Plenary Session**

Professor Uwe Oelfke (United Kingdom) Professor Russell Ritenour (USA)

## **Key-Note Speakers**

Anthony Atala (USA) Charles Bloch (USA) Edward Boyden (USA) José Bravo (Spain) Carmel Caruana (Malta) Paul Chang (Singapore) Andre Dekker (Netherlands)

Jay Flanz (USA) Christian Gasser (Sweden)

Jens Haueisen (Germany) Radovan Hudak (Slovakia) Leonidas D. lassemidis (USA)

Sebastien Incerti (France)

Penelope Jeggo (United Kingdom) Christian Kollmann (Austria) Patty Kostkova (United Kingdom) Michal Kozubek (Czech Republic)

José Millet Roig (Spain)

Donald Peck (USA)

Miroslav Pinak (Austria) E. Russell Ritenour (USA)

Milan Santrucek (Czech Republic) Jack A. Tuszynski (Canada)

Jozsef Varga (Hungary)

Kevin Warwick (United Kingdom)

Habib Zaidi (Switzerland)

## Scientific Committee

#### **Co-Chairs**

Geofrey Ibbott (IOMP)

Lenka Lhotska (Czech Republic, BME)

Ratko Magjarevic (IFMBE)

Lucie Sukupova (Czech Republic, MedPhys)

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Petr Marsalek (Czech Republic)

Karel Nechvil (Czech Republic)

Milos Nesladek (Belgium)

Chris Nuggent (United Kingdom)

Pirkko Nykänen (Finland)

Hakan Nystrom (Sweden)

Pawel Olko (Poland)

Leandro Pecchia (United Kingdom)

Vaclav Porod (Czech Republic)

Kevin Prise (United Kingdom)

Ivo Provazník (Czech Republic)

Vladimir Rogalewicz (Czech Republic)

Simo Saarakkala (Finland)

Ioannis Sechopoulos (Netherlands)

Milan Sonka (USA)

Lucie Sukupova (Czech Republic)

Olga Stepankova (Czech Republic)

Krystina Tack (USA)

Rosanna Tarricone (Italy)

Annalisa Trianni (Italy)

Jiri Trnka (Czech Republic)

Frantisek Vlcek (Czech Republic) Vladimir Vondracek (Czech Republic)

Jan Vrba (Czech Republic)

Kevin Warwick (United Kingdom)

Martha Zeguera Diaz (Columbia)

# Congress Coordinating

#### Chair

Kin Yin Cheung (Chair, IOMP, Hong Kong)

#### **Members**

Howell Round (IOMP, New Zealand)

Slavik Tabakov (IOMP, UK)

Virginia Tsapaki (IOMP, Greece)

James Goh (IFMBE, Singapore)

Kang Ping Lin (IFMBE, Taiwan)

Herb Voigt (co-opted, IFMBE, USA)

Monique Frize (co-opted, IFMBE, Canada)

## **Program Committee**

#### **Co-Chairs**

Jaromir Cmiral (Czech Republic, BME) Libor Judas (Czech Republic, MedPhys)

## Contacts

### **Congress Organizing Committee**

E-mail: coc@iupesm2018.org

#### **Supporting Agency**

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