

The 2nd Announcement

ISPEMI 2014

9th International Symposium on Precision Engineering Measurements and Instrumentation

(ISPEMI 2014)

August 8-13 2014, Changsha/Zhangjiajie, China

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International Committee on Measurements and Instrumentation (ICMI)
National Natural Science Foundation of China (NSFC)
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China Instrument and Control Society (CIS)

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Harbin Institute of Technology (HIT)
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Proceedings of SPIE , ISPEMI 2014

High quality papers (six to ten pages) will be selected from all the submissions for inclusion in the proceedings of SPIE, ISPEMI 2014 to be published by SPIE. All papers included in the proceedings will be indexed in EI. The submission of an abstract means at least one delegate must be registered and present the paper at meeting, otherwise the manuscript will not be including in the proceedings by SPIE.

Top quality papers will be recommended to the following three Journals: MicroScopy, Surface Topography: Metrology & Properties, and Optical Engineering. The three journals are all top SCI journals in their fields.

Journal of Microscopy

The Journal of Microscopy is the official journal of the International Society for Stereology, the Microscopical Society of Ireland, the Polish Society for Microscopy, and the Austrian Society for Electron Microscopy, established in 1842.

Journal of Microscopy is for scientists and technologists that use any form of microscopy, spatially resolved spectroscopy, compositional mapping and image analysis. This includes technology and applications in physics, chemistry, material and biological sciences.

The Journal publishes top quality review articles, original research papers, Hot Topic papers (fast-tracked short communications), and letters to the Editor, covering all aspects of microscopy and analysis. The Journal of Microscopy is particularly interested in papers on original applications and developments in microscopy. (Impact Factor: 1.633)

<http://www.rms.org.uk/publications/Journal>

Surface Topography: Metrology & Properties

Surface Topography: Metrology and Properties will focus on the progress in surface metrology, surface characterization instrumentation and properties of surfaces. The aims of Surface Topography: Metrology and Properties are to provide an international forum for academics, industrialists and engineers from different disciplines to present results, latest research and case studies. (The intending impact factor will be over 1.0 and hopefully come out in 2015)

<http://iopscience.iop.org/2051-672X/>

Optical Engineering

Optical Engineering publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science, engineering, and technology. (Impact Factor: 0.88)

<http://opticalengineering.spiedigitallibrary.org/journal.aspx>

Critical Dates

Abstract Due Date: **April 15, 2014**

Abstract Accepted Notice: **May 15, 2014**

Manuscript Due Date: **July 1, 2014**

Important notes: Please submit both a short 200-words abstract and a 500-words structured extended abstract. The structured extended abstract can be up to three pages in length and should have figures, and sufficient data to permit review of the paper.

According to the agreement with SPIE, full length papers shall be in English and shall be six to ten pages long, single line spaced and single columned, please refer to the Template attached.

Time and Venue

Check-in time: **August 8, 2014**

Duration: **August 9-10, 2014**

Optional sightseeing tour to Zhangjiajie: **August 11-13, 2014**

Venue: *Empark Grand Hotel - Changsha* (Changsha, China) (In Chinese: 长沙世纪金源大饭店)

Hotel Add: No.199 Jintai Road, Kaifu District Changsha

Hotel Tel: +86-731-8595 8888, Hotel Fax: +86-731-85989999

Website of Hotel: http://www.jmlhotel.com/skin_index_51901034_4

Registration Fee

Registration fee:

3500 RMB per delegate before **July 5, 2014**.

4200 RMB per delegate after **July 5, 2014**.

Fee for optional sightseeing tour to Zhangjiajie:

1500 RMB per delegate before **July 5, 2014**.

2100 RMB per delegate after **July 5, 2014**.

Hotel Room Reservation

The conference provides the accommodation reservation at the Empark Grand Hotel Changsha for the delegate with a special discount.

The hotel offers:

Twin room 480 RMB per room per night

Double room 480 RMB per room per night

Reservation can be made before July 1, 2014 through the Email or Fax of ISPEMI 2014 with an advanced payment depending on the room charge per night.

(Through email ispemi2014@hotmail.com with title 'Room Reservation')

Way of Payment

Bank transfer (mainland China)

Account name: Harbin Institute of Technology

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*In Chinese 中文

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Plenary Speaker



Prof. Tony Wilson

Fellow of Royal Academy of Engineering
Chairman of the Royal Microscopical Society
Department of Engineering Science
University of Oxford, Oxford, UK
Email: tony.wilson@hertford.ox.ac.uk

Short Biography

Prof. T Wilson has been pursuing research into microscopy, imaging and applied optics for over twenty years. His interests are in the theory and implementation of scanning optical microscopes and, in particular, the development of confocal microscopes. This has led to the publication of three books and well over two hundred and fifty papers. He is Chairman and an Honorary Fellow of the Royal Microscopical Society and General Editor of the Journal of Microscopy. He is Professor of Engineering Science and a Fellow of Hertford College.



Prof. Frank Härtig

Head of Division 1 Mechanics and Acoustics, PTB
Physikalisch-Technische Bundesanstalt, Germany
Email: frank.haertig@ptb.de

Short Biography

Prof. Frank Härtig has spent 25 years around precision measurement and precision engineering. He has published over 140 top quality journal papers and has got 17 patents. In his early career, he worked and headed research groups for several leading companies in the field of coordinate measuring technology, such as Carl Zeiss company and Werth Messtechnik company, specialized in gear, gearing tools and thread metrology and got substantial knowledge in the field of tactile, optical and computed tomography measurements. He received his Dr.-Ing. degree at the Institute for Machine Tools and Industrial Engineering of the University of Karlsruhe (TH). Since 1995, he started his research career at PTB as a researcher in the "Coordinate Metrology" laboratory and got a permanent position in 1999. He headed the Working Group "Gear and Thread" in 2002 and the Department "Coordinate Metrology" in 2007. In March of 2014, he was promoted as the head of the division 1 "Mechanics and Acoustics" with more than 150 employees. Prof. Frank Härtig is also an active member and technical expert of several national and international standardization committees, such as International Standard Organization (ISO), Association of German Engineers (VDI/VDE) and European Association of National Metrology Institutes (EURAMET).



Prof. Lars Montelius

Lund University, Department of Physics

The Nanometer Structure Consortium & The NeuroNano Research Center

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Short Biography

Lars Montelius, Professor in Nanotechnology at nmC@LU, Lund University, Sweden. His 24 years of work in nanotechnology has centered around scanning probe microscopy/spectroscopy, low-D structures, lithography and various bio and NEMS-devices. His recent research interests are on exploratory nanotechnology bringing it to the life sciences, especially in the neuronanoscience. LM has published more than 165 articles, given more than 70 invited talks and has filed 22 patents. LM is also the founder of several companies working with nanotechnology and a Director of the Nanoimprint Lithography company Obducat AB, Sweden. He is the Chief Scientific Officer and a Director of European NanoInvest (ENI) AB, an investment company specializing in nanotechnology applications with presence in Malmö, Sweden and Hong Kong. Between Jan 2009 – Feb 2011, he was appointed director for Øresund University & Øresund Science Region, being a cross-border cooperation between eleven universities, three regional authorities, two countries in the Øresund Region, one of Europe's most innovative regions. Presently he serves as an Expert Advisor to The Vice-Chancellor of Lund University as well as a board member of several European organizations such as the European Technology Platform EuMat, the Nanofutures and the High Level Group of NMP. He is also President Elect of IUVSTA, the International Union of Vacuum Science and Technology Applications.



Prof. Saulius Juodkazis

Fellow of OSA and SPIE

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Melbourne Centre for Nanofabrication

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Short Biography

Saulius Juodkazis received his doctorate in experimental physics and material science in 1997 jointly from Vilnius University (Lithuania) and Lyon-I University (France). He has contributed to development of three-dimensional (3D) femtosecond laser microfabrication for micro-optical, photonic crystal, optofluidic, optical memory applications as well as contributed to development of industrial laser cutting/dicing technology. The revealed light-matter interaction mechanisms at the sub-wavelength scale and within an ultra-short time domain are now used for high-precision 3D polymerization via a well-controlled curing of photo-resists without a need of photo-initiators. This principle simplifies 3D laser fabrication and makes it applicable for bio-medical applications and scaffold formation in pure

bio-compatibles polymers.

Compression of light in space and time realized by tightly focussed ultra-short sub-1 ps laser pulses creates unique high-pressure and temperature conditions. This has become a method for creation of new exotic phases of materials and controlled photolysis of chemical bonds. For these achievements and contributions to optical sciences and technology, S. Juodkazis was awarded with a Fellow status in the Optical Society of America (OSA) and the International Society for Optics and Photonics (SPIE).

His current research is focused on applying principles of plasmonic light-field enhancement and its spectral control for applications in sensing, solid-state lighting, and solar energy conversion, and solar hydrogen generation mechanisms. S. Juodkazis has established a nano-fabrication facility at Swinburne Univ., Melbourne, Australia, and is now developing next generation nanofabrication techniques for 3D structuring of nanomaterials.

He has obtained/applied for 20 patents, some of which were instrumental to establish the Laser Systems Ltd., Japan, the company which specializes in laser microfabrication.



Prof. Lihong V. Wang

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Email: lhwang@biomed.wustl.edu

Short Biography

Lihong Wang holds the Gene K. Beare Distinguished Professorship of Biomedical Engineering at Washington University in St. Louis. His book entitled "Biomedical Optics: Principles and Imaging," one of the first textbooks in the field, won the 2010 Joseph W. Goodman Book Writing Award. He also edited the first book on photoacoustic tomography. Professor Wang has published 365 peer-reviewed journal articles and delivered 380 keynote, plenary, or invited talks. His Google Scholar h-index and citations have reached 85 and over 28,000, respectively. He is the Editor-in-Chief of the Journal of Biomedical Optics. He chairs the annual conference on Photons plus Ultrasound, and chaired the 2010 Gordon Conference on Lasers in Medicine and Biology and the 2010 OSA Topical Meeting on Biomedical Optics. Wang serves as the founding chairs of the scientific advisory boards for two companies having commercialized photoacoustic tomography. He received NIH's FIRST, NSF's CAREER, NIH Director's Transformative Research, and NIH Director's Pioneer awards. He was awarded the OSA C.E.K. Mees Medal, IEEE Technical Achievement Award, and IEEE Biomedical Engineering Award for "seminal contributions to photoacoustic tomography and Monte Carlo modeling of photon transport in biological tissues and for leadership in the international biophotonics community."



Prof. Shuang Zhang

School of Physics & Astronomy University of Birmingham, UK

Email: s.zhang@bham.ac.uk

Short Biography

Professor Shuang Zhang received his BSc from Jilin University in China in 1993, and Ph.D in Electrical Engineering from the University of New Mexico, Albuquerque in 2005. From December 2005 to August 2006, he was a Postdoctoral Research Fellow at the University of Illinois at Urbana-Champaign, and from August 2006 to March 2010, he was a Postdoctoral Research Fellow at the University of California Berkeley. In 2010, he took the position of Reader in the School of Physics & Astronomy, University of Birmingham, and was promoted to professor in March, 2013. Prof. Zhang is one of the pioneers of optical metamaterials. He has published around 50 papers in journals including Nature, Nature Physics, Nature Materials, Nature Communications, Physical Review Letters, and Optics Express. His publications have received more than 3600 ISI citations. Professor Zhang is the recipient of IUPAP (International Union of Pure and Applied Physics) Young Scientist Prize in Optics, 2010 for his research on optical metamaterials.