

INTRODUCTION

The 17th Beijing Conference and Exhibition on Instrumental Analysis (BCEIA) continue to follow the direction of "Analytical Science To Create Future" and organize academic seminars, forums and instrumental exhibitions (revolving around) according to the theme of "Moving Towards A Green Future" , making it even more close to the needs of social development.

This year plenary lecturers are Professor David A. Weitz from Harvard University also the Academician of National Academy of Sciences (NAS,U.S.A) , National Academy of Engineering (NAE,U.S.A) , American Academy of Arts and Sciences (AAAS, U.S.A) , Professor Knut Urban from Forschungszentrum Juelich—member of German Academy of Sciences, and other world-known scholars will be invited to present their keynote lectures on hot researches and applications of instrumental analysis field. In addition, sub-conference sessions including 10 fields also will be taken place: including electron microscopy and materials sciences, mass spectrometry, optical spectroscopy, chromatography, magnetic resonance spectroscopy, electroanalytical chemistry, analytical techniques in life sciences, environmental analysis, chemical metrology and reference materials, labeling immunoassay, etc. During BCEIA 2017, many other events and activities including hot-topic forums, simultaneous meetings, poster presentations and seminars will be held in order to promote international academic exchanges in instrumental analysis field, enhance friendly communication among scientists and facilitate full exchange of views among participants.

BCEIA is the largest academic conference and exhibition in the field of instrumental analysis which is held in China once every two years. BCEIA has a history of over 30 years. Now, it receives widely recognition and reputation from international academic societies. BCEIA now establishes long-term exchange and cooperation ties with world-known PITTCO, Japan Analytical Instrument Manufacturers' Association, and German Munich Exhibition Group.

All experts, scholars, industry professionals, scientific and technical personnel from all world are warmly welcome to attend BCEIA2017!

A. Electron Microscopy and Materials Sciences

Level I theme: Development and Application of Electron Microscopy: The Next Ten Years
 Level II theme: Electron Microscopy with Sub-Angstrom Resolution
 In-situ Electron Microscopy
 Environmental Electron Microscopy
 Electron Microscopy for Energy and Nano-Materials
 Cryo-Electron Microscopy
 Ultra-Weak Imaging
 Person-in-charge: HAN Xiaodong, Beijing University of Technology, xdhan@bjut.edu.cn

B. Mass Spectrometry

Level I theme: MS for Healthier Life
 Level II theme: New technology
 Omics analysis
 Safe food
 Green environment and clean energy
 Person-in-charge: LIU Huwei, Peking University, hwliu@pku.edu.cn

C. Optical Spectroscopy

Level I theme: Understanding the importance of optical
 Level II theme: Atomic spectroscopy
 Fluorescence analysis
 Chemiluminescence and electroluminescence
 Infrared/Raman spectroscopy
 Spectral imaging technology
 Spectral instruments and combined technology
 Application research of photo spectroscopy
 Person-in-charge: LIN Jin-Ming, Tsinghua University, jmlin@mail.tsinghua.edu.cn

D. Chromatography

Level I theme: Separation science ensures the green future
 Level II theme: Sample preparation
 Highly efficient separation and characterization
 Applications in complex sample analysis
 Special session for female scholars in separation science
 Person-in-charge: Prof. Dr. ZHANG Lihua, Dalian Institute of Chemical Physics, CAS, lihuazhang@dicp.ac.cn

E. Magnetic Resonance Spectroscopy

Level I theme: Magnetic resonance helps to explore the microscopic world
 Level II theme: Structural analysis
 Biomolecular NMR
 Solid-state nuclear magnetic resonance
 Electron paramagnetic resonance
 Magnetic resonance imaging
 Metabolomics
 Person-in-charge: WANG Shenlin, Peking University, wangshenlin@pku.edu.cn

F. Electroanalytical Chemistry

Level I theme: Electroanalytical chemistry: development and future
 Level II theme: Bioelectrochemical analysis
 Biosensors
 Nanoelectrochemistry
 Single molecule detection
 Single cell analysis
 Hyphenated electrochemical techniques
 Person-in-charge: LI Jinghong, Tsinghua University, jhli@mail.tsinghua.edu.cn

G. Analytical Techniques in Life Sciences

Level I theme: Analytical techniques improve the understanding of life
 Level II theme: Precision medical analysis
 Health and safety
 (toxicant/virus analysis/characterization)
 Omics analysis
 Single molecule/cell/particle analysis
 Person-in-charge: XIE Jianwei, Academy of Military Medical Sciences, xiejw@bmi.ac.cn

H. Environmental Analysis

Level I theme: Analytical Science for Environmental Care
 Level II theme: POPs detection
 Heavy metal detection
 Detection of air pollutants
 Chemo-, bio- and nano-sensors
 Detection of emerging contaminants
 Person-in-charge: GUO Lianghong, Research Center for Eco-Environmental Sciences, CAS LHGuo@rcees.ac.cn

I. Chemical Metrology and Reference Materials

Level I theme: Metrology for worldwide mutual trust and prosperity
 Level II theme: Interpretation of the new ISO Guide
 Metrology in food safety
 Macromolecule metrology
 Traceability evaluation of proficiency testing
 Reference materials and new metrology techniques
 Person-in-charge: LI Hongmei, China National Institute of Metrology, lih@nim.ac.cn

J. Labeled Immunoassay

Level I theme: Basic and clinic studies of labeling immunoassays
 Level II theme: Advances in the latest technology of chemiluminescence
 POCT prospect in clinical application
 New materials of immunological analysis
 Reference material traceability of in vitro diagnostic reagents
 Clinical evaluation on labeled immunization products
 New methodologies and new equipment of basic detection technology
 Person-in-charge: YAN Guangtao, Chinese PLA General Hospital, yan301@263.net

SPECIAL FORUMS

BCEIA Special forums will be exchange meetings on analytical methodologies and testing techniques focused on hot topics such as food safety, biosafety, environmental protection and clinical detection, etc.

CALL FOR PAPERS

All papers not officially published yet may be submitted to BCEIA for being enrolled into the English Collection of Abstracts of Papers that will be published prior to the opening of BCEIA (in CD-ROM), if reviewed and qualified; the Collection of Abstracts of Papers will be published by China Association for Instrumental Analysis as a formal publication.

All papers for submission shall be online or emailed to the head of corresponding field which shall be stated in each paper before 31 July 2017.

Website: www.bceia.cn; www.bceia.org.cn

Email: conf@bceia.org

Note: if there are difficulties by email submission, contact BCEIA office to ensure successful submission.