

BCEIA was authorized by the State Council, the People's Republic of China in 1985 and held the first BCEIA that year by successfully the former National Science and Technology Committee of the People's Republic of China. This was the first ever of large-scale international conference and exhibition on analyzing and testing. Starting in 2001, BCEIA was authorized by Ministry of Science and Technology of the People's Republic of China, organized and operated by China Association for Instrumental Analysis. Through 29 years of growth and development, fifteen BCEIA sessions have been successfully held.

The 16th **BCEIA (BCEIA 2015)** will continue to maintain the direction of **"Analytical Science Create Future"** and the theme of **"Moving towards a green future"** to organize academic lectures, special forums and instrument exhibitions making BCEIA to approach to the need of advanced science and technology developments. The venue will be located at Beijing National Convention Center.

Conference

A. ELECTRON MICROSCOPY & MATERIAL SCIENCES

- 1.1 Electron Optics, Instrumentation and Imaging Science
- 1.2 Electron Microscopy of Biological Sciences
- 1.3 Electron Microscopy of Material Sciences
- 1.4 Transmission Electron Microscopy
- 1.5 In situ Electron Microscopy
- 1.6 Reflection Electron Microscopy and Surface Imaging
- 1.7 Microbeam Analysis and Analytical Electron Microscopy
- 1.8 Scanning Electron Microscopy
- 1.9 Scanning Probe Microscopy

B. MASS SPECTROMETRY

- 2.1 New Techniques and Methods in Mass Spectrometry
- 2.2 Organic Mass Spectrometry
- 2.3 Inorganic and Isotope Mass Spectrometry
- 2.4 Biological Mass Spectrometry
- 2.5 Mass Spectrometry in Omics Research
- 2.6 Hyphenated Techniques in Mass Spectrometry
- 2.7 Computer-related Applications and Developments

C. OPTICAL SPECTROSCOPY

- 3.1 Atomic Absorption/ Emission/Fluorescence Spectroscopy
- 3.2 Plasma Mass Spectroscopy
- 3.3 Atomic X-Ray Spectroscopy
- 3.4 Ultraviolet/Visible Molecular Absorption Spectroscopy
- 3.5 Infrared/Raman Spectroscopy
- 3.6 Fluorescence/phosphorescence/Chemiluminescence Spectroscopy
- 3.7 Hyphenated Techniques
- 3.8 Nano- and Chip- based Technologies applied to Spectrometric Analysis
- 3.9 Spectral Imaging Technique
- 3.10 Application of Spectrometric Technique to Life and Environmental Sciences

D. CHROMATOGRAPHY

- 4.1 Gas Chromatography
- 4.2 Liquid Chromatography
- 4.3 Electro-separation Techniques and Capillary Electrophoresis
- 4.4 Microfluidics, Chip- and Nanotechnology, Microscale Detection
- 4.5 Multiple-dimension Chromatography and Coupling Techniques
- 4.6 Applications of Chromatography in Life Sciences, Environmental Science, Pharmaceutical Analysis, food analysis, Industry Analysis and Other Fields

E. MAGNETIC RESONANCE

- 5.1 Nuclear Magnetic Resonance Spectroscopy
- 5.2 MR Imaging Techniques
- 5.3 Electron Paramagnetic Resonance Spectroscopy
- 5.4 Nuclear Quadrupole Resonance Spectroscopy

F. ELECTROANALYTICAL CHEMISTRY

- 6.1 Fundamentals of Electroanalytical Chemistry
- 6.2 New Techniques and Methods in Electroanalysis
- 6.3 Surface Modification and Characterization
- 6.4 Electrochemical Sensors
- 6.5 Hyphenated Techniques in Electroanalytical Chemistry
- 6.6 Applications of Electroanalytical Techniques in Life Science

G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES

- 7.1 Analytical Technique and Genomics Study
- 7.2 Analytical Technique and Proteomics Study
- 7.3 Analytical Technique and Metabonomics Study
- 7.4 Analytical Technique and Glycomics Study
- 7.5 Innovative Analysis Techniques in Food Safety Inspection
- 7.6 Screening and Identification of Unknown Harmful Substances in Food/ Biomedical Sample
- 7.7 Novel Sample Handling Equipment in Hazardous Substances Analysis
- 7.8 Quality Control Technology and Criteria in Biomedical Analysis

H. ENVIRONMENTAL ANALYSIS

- 8.1 Environmental Sampling and Pretreatment
- 8.2 Inorganic Analysis and Speciation
- 8.3 Organic Analysis (VOCs, POPs, PTS etc)
- 8.4 Environmental Processes and Impact
- 8.5 Environmental Nanotechnology

I. CHEMICAL METROLOGY AND REFERENCE MATERIALS

- 9.1 Fundamentals of Chemical Metrology
- 9.2 Clinical Analysis Reference Methods and Materials
- 9.3 Food Safety Analysis Methods and Reference Materials
- 9.4 Environmental Analysis Methods and Reference Materials
- 9.5 Pharmaceutical, Herbal Medicine Analysis and Reference Materials
- 9.6 Quality Assurance and Proficiency Testing

Conference Proceedings

Abstracts of contributed papers of either oral or poster presentation submitted in electronic version following the format to be specified in detail in the Second Circular will be compiled in the form of a compact disc as the Proceedings of the conference.

Conference Language

The official language of the conference will be English.

BCEIA Academic Forum

A forum on analytical methods and testing technologies and centering around food safety, biosafety and environmental protection in China

The Exhibition

The **BCEIA 2015 Exhibition** will take place at the **China National Convention Center (CNCC) in Beijing, China** (floor area about 24,000m²) at the same time as the **Conference**, showing the newly developed equipments, techniques, accessories and services concerning all the relevant fields of instrumental analysis from various countries.

INFORMATION REQUEST FORM

I plan to attend the BCEIA 2015 Conference at the session(s) of the field(s) of :

- A. ELECTRON MICROSCOPY&MATERIAL SCIENCES
- B. MASS SPECTROMETRY
- C. OPTICAL SPECTROSCOPY
- D. CHROMATOGRAPHY
- E. MAGNETIC RESONANCE
- F. ELECTROANALYTICAL CHEMISTRY
- G. ANALYTICAL TECHNIQUES IN LIFE SCIENCES
- H. ENVIRONMENTAL ANALYSIS
- I. CHEMICAL METROLOGY AND REFERENCE MATERIALS

I intend to submit a contributed paper for

- Oral
- Poster presentation

I am interested in receiving further information about the BCEIA 2015 Exhibition.

I would like to receive the Second Circular

(Please tick the appropriate above and print your name and address etc., below)

NAME: Prof. / Dr. / Mr. / Mrs. / Ms.

(Family name) _____ (Given name) _____

ADDRESS: _____

CITY: _____ POSTCODE: _____

COUNTRY: _____

TEL: _____ FAX: _____

E-MAIL: _____

NOTE: This FORM should be filled in and sent back to BCEIA 2015 office at your earliest convenience but not later than March 2015 in order to receive in time the Second Circular which will be available in April 2015. Please also forward the information to those who may be interested in BCEIA 2015. This form may be copied if necessary.

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BCEIA 2015

The 16th Beijing Conference and Exhibition on Instrumental Analysis

October 27-30, 2015

China National Convention Center, Beijing, China

First circular of Conference

Exhibition on Instrumental Analysis

Sponsored by: Ministry of Science and Technology, PRC

Sponsored by: China Association for Instrumental Analysis (CAIA)

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