



BCEIA 2021

A World Exposition on Analytical Science
and Biochemical Technology

ACADEMIC CONFERENCE

 First
Circular

September 27-29, 2021

Organizer:

China Association for Instrumental Analysis (CAIA)

MOVING TOWARDS A GREEN FUTURE



The 19th Beijing Conference and Exhibition on Instrumental Analysis (BCEIA 2021) is scheduled to be held on September 27-29, 2021 at China International Exhibition Center (New Venue), Beijing. Adhering to the vision of “Analytical Science Creates Future”, BCEIA 2021 will continue to host academic conferences, forums and exhibitions under the theme of “Moving Towards a Green Future”.

The BCEIA was initially launched in 1985, and since then has been held on a biennial basis for 18 times. The recently held BCEIA 2019 Academic Conference covered a wide variety of innovative and informative topics, presented through c. 1,000 professional oral presentations, and attracted more than 4,400 experts and scholars to attend, which offered significant interdisciplinary academic exchange platforms for the scholars. A total of 564 exhibitors from China and abroad participated in the exhibition with more than 3,000 new products and new technologies exhibited, showcasing the fusion of cutting-edge technologies of artificial intelligence, Internet of Things (IoT) and big data etc., reflecting the current trends for the development of scientific instruments around the world.

Statistics reveal that 28,650 attendees have taken part in the BCEIA 2019 academic conference and exhibition. By June 30, 2020, the actual visits reached 172,000 through live video broadcasting and live graphic broadcasting platforms. This event was reported in time by several renowned media, such as China Daily, CCTV International Network and STDaily.

The upcoming BCEIA 2021 Academic Conference will consist of plenary lectures, parallel sessions, forums, concurrent meetings and poster sessions. World-renowned scientists have been invited to attend and share their perspectives and research results. The ten parallel sessions – Electron Microscopy and Material Science, Mass Spectrometry, Optical Spectroscopy, Chromatography, Magnetic Resonance Spectroscopy, Electroanalytical Chemistry, Analytical Techniques in Life Sciences, Environmental Analysis, Chemical Metrology and Reference Materials, and Labeled Immunoassay will involve discussions and academic exchanges under different themes and topics in these fields. The organizer will also host plentiful high-level academic forums, including International Summit on Analytical Instrumentation and In Vitro Diagnosis, Sino-Japan Scientific Instrument Development Forum and China Young Analytical Scientists Forum.

With a total exhibition area of 53,000 m², BCEIA 2021 is willing to exhibit the worldwide novel technologies and latest instruments in the field of analytical sciences.

We sincerely look forward to your participation!



BCEIA 2021 Academic Committee

Chair

Weihong Tan Member of CAS, Hunan University

Vice Chair

Yukui Zhang Member of CAS, Dalian Institute of Chemical Physics, CAS
Guibin Jiang Member of CAS, Research Center for Eco-Environmental Sciences, CAS
Xuemin Zhang Member of CAS, Academy of Military Medical Sciences
Ze Zhang Member of CAS, Zhejiang University

Secretary General

Xinrong Zhang Professor, Tsinghua University

Committee Members (in alphabetical order)

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Zhifang Chai Member of CAS, Institute of High Energy Physics, CAS
Derek Craston Chief scientist, Laboratory of the Government Chemist, UK
Norman J. Dovichi Professor, University of Notre Dame, USA
X. Chris LE Professor, University of Alberta, Canada
Hongmei Li Professor, National Institute of Metrology, China
Jinghong Li Member of CAS, Tsinghua University
Liang Li Professor, University of Alberta, Canada
Jinming Lin Professor, Tsinghua University
Huwei Liu Professor, Peking University
Maili Liu Professor, Wuhan Institute of Physics and Mathematics, CAS
Yi Lu Professor, University of Illinois, Urbana-Champaign, USA
Xiaohong Qian Professor, Beijing Proteome Research Center
Jianzhong Shen Member of CAE, China Agricultural University
Benzhong Tang Member of CAS, Hong Kong University of Science & Technology
Knut W. Urban Professor, Institute of Solid State Research and Ernst Ruska
Center for Microscopy and Spectroscopy with Electrons, Germany
Guangtao Yan Professor, Chinese PLA General Hospital
Xiurong Yang Member of CAS, Changchun Institute of Applied Chemistry, CAS
Edward S. Yeung Professor, Iowa State University, USA
Lihua Zhang Professor, Dalian Institute of Chemical Physics, CAS
Yuliang Zhao Member of CAS, National Center for Nanoscience and Technology
Fangye Zhu Associate professor, Far Eastern Memorial Hospital, Taiwan, China
Lizhong Zhu Member of CAE, Zhejiang University

Advisory Committee (in alphabetical order)

Benli Huang Member of CAS, Xiamen University
Guofan Jin Member of CAE, Tsinghua University
Yunyu Shi Member of CAS, University of Science and Technology of China
Erkang Wang Member of CAS, Changchun Institute of Applied Chemistry, CAS
Haizhou Wang Member of CAE, China Iron and Steel Research Institute Group
Fusheng Wei Member of CAE, China National Environmental Monitoring Centre
Hengqiang Ye Member of CAS, Institute of Metal Research, CAS
Zhaohui Ye Member of CAS, Wuhan Institute of Physics and Mathematics, CAS
Jing Zhu Member of CAS, Tsinghua University



BCEIA 2021 Academic Conference

The BCEIA 2021 Academic Conference will bring together top scientists and experts from internationally renowned research institutions at home and abroad to discuss on technologies and applications that attract the highest attention of the respected fields.

Parallel Sessions

A Electron Microscopy and Material Science

Theme: Microscopy Enlightens New Future

Sessions: In-situ Electron Microscopy
Atomic-scale Interface and Defects
New Technology of Electron Microscopy
Microstructure and Big Data

Host: Prof. Xiaodong Han, Beijing University of Technology
xdhan@bjut.edu.cn

B Mass Spectrometry

Theme: Accurate Measurement, MS Improves Health

Sessions: MS Novel Instruments and Technologies
MS Fundamental
Clinical MS
MS Novel Applications

Host: Prof. Huwei Liu, Peking University
hwliu@pku.edu.cn

C Optical Spectroscopy

Theme: Highly Sensitive Optical Analysis and Imaging

Sessions: New Idea: Molecular and Nanoscale Spectra
New Application: Optical Analysis and Material
New Method: High Resolution Optical Imaging
New Instrument: Optical Spectrometer and Microscope

Host: Prof. Yan He, Tsinghua University
yanhe2021@mail.tsinghua.edu.cn

D Chromatography

Theme: Separation Science Escorts Future Health

Sessions: Sample Preparation
Highly Efficiency Separation
Highly Sensitive Detection
Applications

Host: Prof. Dr. Lihua Zhang
Dalian Institute of Chemical Physics, CAS
lihuazhang@dicp.ac.cn



BCEIA 2021 **Parallel** **Sessions**

E Magnetic Resonance Spectroscopy

Theme: From Spins to Life, NMR Facilitating in Understanding the Life Process

Sessions: Magnetic research studies related to the human health, including:
Structures and Dynamics of Biomacromolecules
Drug Discovery
In Cell Magnetic Research
Magnetic Imaging
New Magnetic Methods

Host: Prof. Shenlin Wang, Peking University
wangshenlin@pku.edu.cn

F Electroanalytical Chemistry

Theme: Electroanalytical Chemistry: Innovation and Opportunity

Sessions: New Techniques and Methods in Electroanalysis
Surface Modification and Characterization
Electrochemical Sensors
Hyphenated Techniques
Nanoelectrochemistry
Bioelectroanalysis
Spectroelectrochemistry
Applications of Electroanalytical Techniques

Host: Prof. Jinghong Li, Member of CAS, Tsinghua University
jhli@mail.tsinghua.edu.cn

G Analytical Techniques in Life Sciences

Theme: Analytical Techniques Improve the Understanding of Life

Sessions: Precision Medicine Analysis and Medical Diagnosis
Omics Analysis
Health and Safety
Single Molecule/Cell/Particle Analysis

Host: Prof. Lei Guo, Academy of Military Medical Sciences
guolei@bmi.ac.cn

H Environmental Analysis

Theme: Environment and Health

Sessions: Environmental Pollutant Analysis
PM2.5 and Nano-pollutants
Chemical Toxicology
Environmental Epigenetics
Environmental Omics

Host: Prof. Hailin Wang, Research Center for Eco-Environmental Sciences, CAS
hlwang@rcees.ac.cn



BCEIA 2021 **Parallel** **Sessions**

I Chemical Metrology & Reference Materials

Theme: Metrology for Worldwide Mutual Trust and Prosperity

Sessions: New Techniques for Chemical Metrology and Reference Materials
Clinical Medicine and Metrology
Metrology in Food Safety and Environmental Analysis

Host: Prof. Hongmei Li, National Institute of Metrology China
lih@nim.ac.cn

J Labeled Immunoassay

Theme: Innovation and Integration, Accurate Diagnosis

Sessions: Accurate Diagnosis of New Detection Technology
New Test Indicators Clinical Validation Transformation
Test Quality Control

Host: Prof. Guangtao Yan, Chinese PLA General Hospital
ygt301@163.com

Thematic Forums **and Concurrent Meetings**

Thematic forums and concurrent meetings will cover topics on analytical methods, testing techniques and R&D of instruments in hot areas such as food and health, environmental protection, biosafety, and in vitro diagnosis, and frontier areas such as new energy and new materials.

Conference **Language**

The official language is English.

Date: September 27-29, 2021

Venue: China International Exhibition Center
(New Venue), Beijing, China

Approved by: Ministry of Commerce of People's Republic of China

Organizer: China Association for Instrumental Analysis (CAIA)



INFORMATION REQUEST FORM

Please tick the appropriate boxes to acquire further information on BCEIA 2021 Academic Conference:

- I intend to participate:
- A. Electron Microscopy and Material Science
 - B. Mass Spectrometry
 - C. Optical Spectroscopy
 - D. Chromatography
 - E. Magnetic Resonance Spectroscopy
 - F. Electroanalytical Chemistry
 - G. Analytical Techniques in Life Sciences
 - H. Environmental Analysis
 - I. Chemical Metrology and Reference Materials
 - J. Labeled Immunoassay
- I intend to submit a contributed paper for:
- Oral Presentation
 - Poster Session
- I would like to receive the Second Circular and further information on BCEIA 2021.

Title: _____

Name: _____

Gender: _____

Affiliation: _____

E-mail: _____

We will be appreciated if you send the above information to the Secretariat Office of the BCEIA 2021 Academic Committee before 31st Jan, 2021.

Contact US

Beijing Conference and Exhibition on Instrumental Analysis (BCEIA)
Secretariat of Academic Committee

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**ANALYTICALSCIENCE
CREATES FUTURE**