

## Preface

China National Conference on Functional Materials and Applications (NCFMA) is a nationwide, comprehensive and open conference for academic and industrial exchange which held every three years. Nowadays, it has become one of most important and significant activity in the field of functional materials in China through twenty years' development. The eighth NCFMA was successfully held in Harbin from August 23<sup>th</sup> to 26<sup>th</sup> in 2013, which sponsored by China Instrument and Control Society Instrument Functional Materials Branch, National Instrument Functional Materials Engineering Technology Research Center, Chongqing Materials Research Institute and Chongqing Functional Materials Periodical Press, and executed by Harbin Institute of Technology

Aiming at "speeding up the independent innovation and industrialization of functional materials, making contribution to progress of science and technology of the new material", the eighth NCFMA had adopted top-end academic exchanges, achievements Exhibition in materials research and functional materials science instruments and equipment exhibition as the main forms of communication, and organized exchange activities through keynote speeches, research reports, industry development reports, paper presentations, and wall newspapers. About 800 scientists, experts, professors, scholars and entrepreneurs at home and abroad from scientific research institutes, universities, academic societies and enterprises attended this conference, including members of Chinese Academy of Sciences Guangtian Zhou, Ze Zhang, Qikun Xue, Shutang Li and Zhonglin Wang, members of Chinese Academy of Engineering Liancheng Zhao, Yu Zhou and Li'an Hou, foreign professors C. Wilhur Peters, Ctirad Uher and Yunfeng Lu, deputy director of the National Natural Science Fund Committee Ruiping Gao, vice governor of Heilongjiang province Dongsheng Sun, president of Chongqing Materials Research Institute Qingbin Liu, vice president of Harbin Institute of Technology Jiecai Han. Meanwhile, "2013 Exhibition of Functional Materials Scientific Instruments, Equipment and Achievement" was held simultaneously with eighth NCFMA.

The conference focused on the following topics: (1) Metallic Materials; (2) Ceramic and Inorganic Functional materials; (3) Composite Materials, Aerospace Materials, Film Materials, Coating and Surface Technology; (4) Environmental Functional Materials and Energy Materials; (5) Mechanical, Thermal, Acoustical, Optical, Electric, Magnetic, Information and Optoelectronic Functional Materials; (6) Biological, Macromolecule and Organic Functional Materials; (7) Sensing and Smart Materials, Nanoscale Materials; (8) Metamaterials, Electromagnetic Functional Materials, Fundamentals of Materials science, Materials Characterization Analysis and Simulation, The Devices and Applications of Functional Materials.

The success of the eighth NCFMA plays a positive and significant role in promoting the academic, technical exchange and industrial development in functional materials field.

China Instrument and Control Society Instrument Functional Materials  
Branch  
China National Conference on Functional Materials and Applications  
Organizing committee  
2013.8

# Committees

## **Sponsored by**

China Instrument and Control Society Instrument Functional Materials Branch

National Instrument Functional Materials Engineering Technology Research Center

Chongqing Materials Research Institute

Chongqing Functional Materials Periodical Press

## **Executed by**

Harbin Institute of Technology

## **Conference Leadership**

### **Honorary Chairman:**

Changxu Shi(Honorary chairman of China Institute of materials, Member of Chinese Academy of Engineering), Guangxian Xu(Professor of Beijing University, Member of Chinese Academy of Sciences)

### **Chairman:**

Boyun Huang (Vice Chairman of China Association for Science and Technology, Member of Chinese Academy of Engineering), Shanyi Du (Executive member of the international composite material committee, Member of Chinese Academy of Engineering)

### **Vice Chairmen:**

Chunhua Yan (Director of Rare Earth Materials Chemistry and Application State Key Laboratory in Peking University, Member of Chinese Academy of Sciences), Qingbin Liu(President of Chongqing Materials Research Institute, Director of National Instrument Functional Materials Engineering Technology Research Center, President of Chongqing Functional Materials Periodical Press), Jiecai Han(Vice President of Harbin Institute of Technology)

## **Organizing Committee**

### **Chairman:**

Yanrong Li (Director of State Key Laboratory of Electronic Film and Integrated Device, Member of Chinese Academy of Engineering)

### **Vice Chairmen:**

Ruiping Gao (Deputy director of the National Natural Science Fund Committee), Xiaoping Song(Vice President of Xi'an Jiaotong University), Kechao Zhou (Vice President of Central South University), Huiming Chen(Professor of Chinese Academy of Sciences Institute of Metal)

## **Academic Committee**

### **Chairman:**

Chunhua Yan (Director of Rare Earth Materials Chemistry and Application State Key Laboratory in Peking University, Member of Chinese Academy of Sciences), Yu Zhou(Vice President of Harbin Institute of Technology, Member of Chinese Academy of Engineering)

### **Vice Chairmen:**

Qing Liu(Vice president of Chongqing University), Yichun Zhou(President of Xiangtan University), Ji Zhou (Deputy Director of State Key Laboratory of New Ceramics and Fine Processing of Tsinghua University), Jianghua Chen (President of College of Materials Hunan University), Xiangshui Miao (Professor of Huazhong University of Science and Technology)