

Welcome to The Asian Symposium on Laser Induced Breakdown Spectroscopy (ASLIBS 2015) in Wuhan, China Optics Valley.

ASLIBS 2015 is a bridge connecting researchers, engineers and equipment suppliers, bringing them face-to-face to share knowledge, experiences and visions. The experts on LIBS with fresh results and the latest progress in China and Asia to form valuable professional relationships.

ASLIBS 2015 includes sessions on new principles, new methods, and instrumentation and industrialized application for LIBS and your contributions are crucial to the success of these exciting events!

We invite you to come and enjoy this stimulating and beneficial conference, while making new friends from laser engineering and business circles.



ASLIBS 2015 is organized by Wuhan National Laboratory for Optoelectronics.

On behalf of the organizing committee and chairs, we would like to formally and honored invite you to attend The Asian Symposium on Laser Induced Breakdown Spectroscopy, June24-26, 2015 in Wuhan, China.





- *1<sup>st</sup> Asian LIBS community reunion in June, 2015. Wuhan, China.*
- *Over 150 participants to attend the conference and contribute 37 oral presentations (including 22 invited talks) and 40 posters.*

# The Asian Symposium on Laser Induced Breakdown Spectroscopy

June 24-26, 2015 Wuhan

*June 24-26, 2015, Wuhan, HB, China*







武汉光电国家实验室(筹)  
WUHAN NATIONAL LABORATORY FOR OPTOELECTRONICS



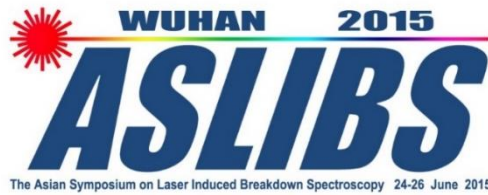
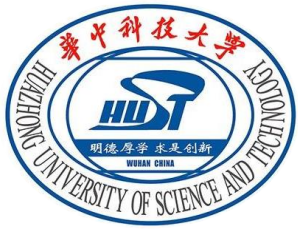
**Prof. X.Y. Zeng, Chair of ASLIBS 2015**



June 24-26, 2015,  
Wuhan, HB, China







武汉光电国家实验室(筹)  
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- This is the 1<sup>st</sup> Asian LIBS community reunion in June, 2015. Wuhan, China. Over 150 participants attend the conference and contribute 37 oral presentations (including 22 invited talks) and 40 posters.





WUHAN 2015

# ASLIBS

The Asian Symposium on  
Laser Induced Breakdown Spectroscopy

24-26 June 2015 Wuhan China

## Tuesday, June 23 2015

Time	Program
08:00-22:00	Registration

## Wednesday, June 24 2015

Time	Name
08:30-09:00	Opening Ceremony
09:00-10:00	Conference
10:00-10:30	Coffee break
10:30-11:55	Conference
12:00-14:00	Lunch break
14:00-15:35	Conference
15:35-16:00	Coffee break
16:00-17:20	Conference
17:30	Dinner

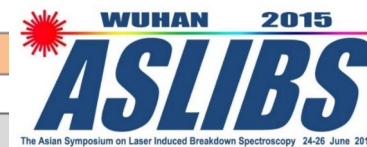
## Thursday, June 25 2015

Time	Name
08:30-09:55	Conference
09:55-10:20	Coffee break
10:20-11:30	Conference
11:30-13:15	Lunch break
13:15-13:30	Photo taking
13:30-17:30	Visiting Hubei Provincial Museum
17:30	Dinner

## Friday, June 26 2015

Time	Name
8:30-10:05	Conference
10:05-10:15	Coffee break
10:15-12:00	Poster session
12:00-14:00	Lunch break
14:00-15:30	Conference
15:30-16:00	Closing ceremony & Poster/Best paper Award
16:00	Visiting WNLO
18:00	Dinner

The 1<sup>st</sup> Asian Symposium on Laser-Induced  
Breakdown Spectroscopy (ASLIBS 2015)



The Asian Symposium on Laser Induced Breakdown Spectroscopy 24-26 June 2015

## Wednesday, June 24 2015

Time	Name	Property	Affiliation	Topic	
08:30-09:00	Opening Ceremony The 3rd Floor - International Academic Exchange Center- Huazhong University of Science & Technology				Session Chair
09:00-09:20	Yoshihiro Deguchi	Invited 1	The University of Tokushima, Japan	Development of LIBS measurement system of fly ash contents using laser-induced breakdown spectroscopy	Xiaoyan Zeng, Huazhong University of Science and Technology, China
09:20-09:40	Jidong Lu	Invited 2	South China University of Technology, Guangzhou, China	Recent Advances in Application of LIBS for Thermal Power Plants	
09:40-10:00	Yixiang Duan	Invited 3	Sichuan University, China	Recent Development of LIBS Technologies: Instrumentation and Method Innovation	
10:00-10:30	Coffee break - The 2nd Floor - International Academic Exchange Center- Huazhong University of Science & Technology				Session Chair
10:30-10:50	Hongbin Ding	Invited 4	Dalian University of Technology, China	Recent Advance in LIBS Studies for Plasma Facing Materials in Fusion Devices	Yixiang Duan, Sichuan University, China
10:50-11:10	Shunsuke Kashiwakura	Invited 5	Tohoku University, Japan	Transient response of emission signals of LIBS from base metals	
11:10-11:30	Bin Ren	Invited 6	Xiamen University, China	Surface-enhanced Raman and Tip-enhanced Raman Spectroscopy, implication for LIBS	
11:30-11:45	Xiaomei Lin	Oral 1	Changchun University of Technology, China	Depending on Sample Temperature Effects on Plasma Plume Characteristics to Improve Measurement of Double-Pulse Laser	
11:45-12:00	Shuai Bin	Sponsor 1	Titan Electro-Optics Co.,Ltd.	Lasers and spectrometers for high-end LIBS research and in-situ LIBS equipment development	
12:00-14:00	Lunch break - Yuyuan - International Academic Exchange Center- Huazhong University of Science & Technology				

Wednesday, June 24 2015					
Time	Name	Property	Affiliation	Topic	Session Chair
14:00-14:20	Weidong Zhou	Invited 7	Zhejiang Normal University, China	Comparative study of the enhancement of dual pulse laser induced breakdown spectroscopy and laser ablation pulse discharge enhanced plasma spectroscopy	Yoshihiro Deguchi, The University of Tokushima, Japan
14:20-14:40	Xiangyou Li	Invited 8	Huazhong University of Science and Technology, China	Spectral data processing for accuracy improvement of laser-induced breakdown spectroscopy	
14:40-15:00	Seyed Hassan Tavassoli	Invited 9	Shahid Beheshti University, G. C., Tehran, Iran	Laser Induced Breakdown Spectroscopy (LIBS): Basic Aspects, Instrumentations and Applications	
15:00-15:15	Yuqi Chen	Oral 2	South China University of Technology, China	Time-resolved signal detection technique in LIBS with gated photomultiplier tube	
15:15-15:30	Zhenzhen Wang	Oral 3	Xi'an Jiaotong University, China	Research on trace heavy metal contents of gas phase samples using LIBS and LB-TOFMS	
15:30-16:00	Coffee break - The 2nd Floor - International Academic Exchange Center- Huazhong University of Science & Technology				Session Chair
16:00-16:20	Zhe Wang	Invited 10	Tsinghua University, China	Quantitative Analysis of Coal Using Laser Induced Breakdown Spectroscopy	Hongbin Ding, Dalian University of Technology, China
16:20-16:40	Tetsuo Sakka	Invited 11	Kyoto University, Japan	Quantitative Elemental Analysis of Trace Metal Ions in Aqueous Solutions by Underwater LIBS Combined with Pre-concentration by Electrodeposition	
16:40-17:00	Jack Zhou	Sponsor2	BETekinc.	New generation spectrometers and LIBS instrumentation	
17:00-17:15	Xiaohui Li	Oral 4	Harbin Institute of Technology, China	Local Equivalence Ratio Measurement Using Laser Induced Breakdown Spectroscopy for Laser Spark Ignition Mechanism Investigation	
17:15-17:30	Zhifeng Cui	Oral 5	Anhui Normal University, Wuhu Anhui, China	An Experimental Investigation on the Emission Spectra of Femtosecond Laser-induced Nickel Plasmas	
17:30	Dinner - Yuyuan - International Academic Exchange Center- Huazhong University of Science & Technology				



Thursday, June 25 2015					
Time	Name	Property	Affiliation	Topic	Session Chair
08:30-08:50	Ikuo Wakaida	Invited 13	Japan Atomic Energy Agency, Japan	Challenging in laser based spectroscopy for nuclear engineering	Zhe Wang, Tsinghua University, China
08:50-09:10	Fengzhong Dong	Invited 14	Chinese Academy of Sciences , China	The application of laser-induced breakdown spectroscopy in geological logging	
09:10-09:25	Hassan Yousefi Oderji	Oral 6	Dalian University of Technology, China	Simulation of nanosecond laser ablation and laser induced breakdown spectroscopy of copper	
09:25-09:40	Changmao Li	Oral 7	Huazhong University of Science and Technology, China	Detection of trace boron in nickel-base superalloy using resonantly enhanced laser-induced breakdown spectroscopy	
09:40-10:10	Coffee break				Session Chair
10:10-10:30	Jin Yu	Invited 15	Université de Lyon, France	Determination of Elemental Content in Powdered Materials Dispersed in Liquid or Solvated in Solution with LIBS	Ronger Zheng, Ocean University of China, China
10:30-10:50	Muhua Liu	Invited 16	Jiangxi Agricultural University, China	Detecting heavy metal elements of agricultural products by LIBS	
10:50-11:05	Ming Zhu	Oral 8	Institute of Optoelectronics Shenzhen University, China	Combined Remote LIBS and Raman Detection System	
11:05-11:25	Christoph Scholz	Sponsor 2	LTB Lasertechnik Berlin GmbH	Technical Marketing Manager Spectroscopy	
11:25-13:15	Lunch break - Yuyuan - International Academic Exchange Center- Huazhong University of Science & Technology				
13:15-13:30	Photo taking				
13:30-17:30	Visiting the Hubei Provincial Museum				
17:30	Dinner				



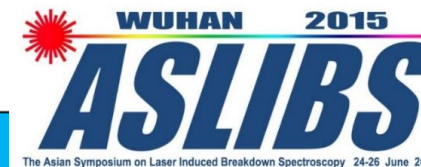
# The Asian Symposium on Laser Induced Breakdown Spectroscopy 2015



**Friday, June 26 2015**

Time	Name	Property	Affiliation	Topic	Session Chair
08:30-08:50	Sungho Jeong	Invited 17	Gwangju Institute of Science and Technology, Republic of Korea	Laser induced breakdown spectroscopy for process monitoring by fast quantitative elemental analysis during manufacturing	Yongfeng LU, University of Nebraska-Lincoln, US, Huazhong University of Science and Technology, China
08:50-09:10	Lanxiang Sun	Invited 18	Shenyang Institute of Automation, Chinese Academy of Sciences, China	Application of Laser-Induced Breakdown Spectroscopy to In-Situ and Remote Analysis of Molten Metal	
09:10-09:30	Ryo Yoshiie	Invited 19	Nagoya University, Japan	Monitoring of volatile trace elements in flue gas using LIBS	
09:30-09:45	Jin Yu	Oral 9	Université de Lyon, France	Influence of ablation laser wavelength and ambient gas on LIBS analysis of glass with polished or frosted surface	
09:45-10:00	Wangbao Yin	Invited 12	Shanxi University, China	Development of a LIBS-based coal quality analyzer for application to power plants	
10:00-10:15	Nasrullah IDRIS	Oral 10	Syiah Kuala University, Indonesia	Detection of Sediment Contamination in Tsunami Impacted Soil Due to the 2004 Indian Ocean Giant Tsunami, Aceh, Indonesia by Means of Laser-Induced Plasma Spectroscopy	
10:15-10:30	Coffee break - The 2nd Floor - International Academic Exchange Center- Huazhong University of Science & Technology				
10:30-12:00	Poster session				
12:00-14:00	Lunch break - Yuyuan - International Academic Exchange Center- Huazhong University of Science & Technology				

# The Asian Symposium on Laser Induced Breakdown Spectroscopy 2015



Friday, June 26 2015

Time	Name	Property	Affiliation	Topic	Session Chair
14:00-14:20	Ronger Zheng	Invited 20	Ocean University of China, China	Development of an Underwater LIBS System and the Preliminary Results in the Sea Trials	Sungho Jeong, Gwangju Institute of Science and Technology, Korea
14:20-14:40	Yongfeng LU	Invited 21	University of Nebraska-Lincoln,US, Huazhong University of Science and Technology, China	Laser-induced breakdown spectroscopy enhanced by combustion flames	
14:40-15:00	Daming Dong	Invited 22	National Research Center of Intelligent Equipment for Agriculture, China	Farmland Soil Potassium Measurement by LIBS and Multivariate Analysis	
15:00-15:15	Nick ZHOU	Sponsor 4	The Latest Detection on LIBS	Andor Technology Ltd	
15:15-15:30	Peichao Zheng	Oral 11	Chongqing University of Posts and Telecommunications , China	Identification of Tea leaves by Laser-induced Breakdown Spectroscopy Combined with Discriminant Analysis	
15:30-16:10	Coffee break & Closing ceremony & Poster/Best paper Award - The 2nd Floor - International Academic Exchange Center- Huazhong University of Science & Technology				
16:10	Visiting WNLO				

- *The Asian Symposium on Laser Induced Breakdown Spectroscopy (ASLIBS 2015) focuses on the growth and application of new principles and methods on LIBS and LIBS for novel industrial applications. ASLIBS 2015 offers an exciting technical conference that represents LIBS growth in Asia. In order to speed up the development of LIBS in Asia, Asian LIBS Association will be setup in the conference as well. ASLIBS features sessions on new principles, new methods, and instrumentation and industrialized application for LIBS.*