



Monday, August 28th		
Registration		
10:00-10:30 Opening Ceremony		
Session 1 – LIBS Basics (I) Chairs: Shunchun Yao, Takashi Fujii		
10:30-11:00	O-01-I <u>Xiangyou Li</u> , Jiaming Li, Rongxing Yi, Lianbo Guo, Xiangyan Zeng, Yongfeng Lu	Analysis performance improvement of laser-induced breakdown spectroscopy using laser-induced fluorescence
11:00-11:30	O-02-I <u>Zhe Wang</u> , Zongyu Hou, Yanli Liu, Zheng Li, Weidou Ni (invited)	Realizing accurate quantification for laser-induced breakdown spectroscopy
11:30-11:50	Coffee Break (20minutes)	
11:50-12:20	O-03-I <u>Qianqian Wang</u> , Chenyu Li, Yu Zhao, Xutai Cui, Yang Du, Xiaolei Qiao (invited)	The research of hazardous materials detection technology by using Laser-induced Breakdown Spectroscopy
12:20-12:35	O-04-I <u>Shunsuke Kashiwakura</u> , Kazuaki Wagatsuma (invited) [YR]	Linearity of calibration lines of X in Fe-X binary alloys in high-concentration range by laser-induced breakdown spectroscopy
12:35-14:00	Lunch	
Session 2 – LIBS Basics (II) Chairs: Ikuo Wakaida, Sungho Jeong		
14:00-14:30	O-05-I <u>Nasrullah Idris</u> , Muliadi Ramli, Kazuyoshi Kurihara (invited)	Detection of Salts Contamination in Tsunami Impacted Soil Due to the 2004 Indian Ocean Giant Tsunami, Aceh, Indonesia Using a Transversely Excited Atmospheric (TEA) Carbon Dioxide (CO <sub>2</sub> ) Laser-Induced Breakdown Spectroscopy
14:30-14:45	O-06 <u>Lei Zhang</u> , Wangbao Yin, Jiajia Hou, Suotang Jia	Accuracy improvement of composition measurement using SAF-LIBS
14:45-15:00	O-07 <u>Daisuke Itabashi</u> , Kazumi Mizukami, Michihiro Aimoto, Masayuki Nishifuji [YR]	Investigation of plasma condition when using Mistral Desolvation Sample Introduction System for Inductively Coupled Plasma-Mass Spectrometry
15:00-15:15	O-08 <u>Shisong Tang</u> , Valery Bulatov, Israel Schechter, Zhongqi Hao, Lianbo Guo, Xiangyou Li, Xiaoyan Zeng	Development of LIBS combined with multiphoton ionization with fast conductance (MPI-FC) for surfaces analysis
15:15-15:30	O-09-V Tokyo Instruments	Introduction of LIBS-related products by Tokyo Instruments
15:30-15:50	Coffee Break (20minutes)	
15:50-17:20	Poster Session	

Tuesday, August 29th		
Session 3 – LIBS Methodology Chairs: Zhenzhen Wang, Shunsuke Kashiwakura		
9:15-9:30	O-10-I <u>Ayumu Matsumoto</u> , Hironori Ohba, Katsuaki Akaoka, Ikuo Wakaida (invited) [YR]	Expansion Dynamics of Laser-Produced Plasma in Long-Pulse Fiber-Optic LIBS of Metal Target in Air
9:30-9:45	O-11 <b>Cancelled</b>	<b>Cancelled</b>
9:45-10:00	O-12 <u>Tadatake Sato</u> , Yoshizo Kawaguchi, Hideki Ohmura	Surface Inspection using LIBS for Adhesive Bonding

10:00-10:15	O-13 <u>Zener Sukra Lie</u> , Koo Hendrik Kurniawan, Kiichiro Kagawa [YR]	Powder Analysis Employing Subtarget Supported Micro Mesh Using LIBS
10:15-10:30	O-14 Takuya Matsumoto, Seiji Kitayama, Kazuma Takauchi, Kiwamu Kusama, Sonam Wangmo, <u>Kazuyoshi Kurihara</u>	CO <sub>2</sub> LIBS Applied to Cr Speciation Analysis Using Surfactant
10:30-10:45	O-15-V Phototechnica	Introduction of spectrometers by Avantes
10:45-11:05	Coffee Break (20minutes)	
	<b>Session 4 – Ocean &amp; Geological Applications</b> <b>Chairs: Katsuaki Akaoka, Qianqian Wang</b>	
11:05-11:20	O-16-I Tomoko Takahashi, Blair Thornton, Yutaro Takaya, Tatsuo Nozaki, Toshihiko Ohki, Koichi Ohki, Tetsuo Sakka (invited) [YR]	Application of PLS to quantitative elemental analysis of rocks submerged in seawater for LIBS
11:20-11:35	O-17 Boyang Xue, Ye Tian, Yuan Lu, <u>Ying Li</u> , <u>Ronger Zheng</u>	Effects of axial focusing arrangement on underwater DP-LIBS with different laser energies
11:35-11:50	O-18 <u>Nan Li</u> , Jinjia Guo, Kai Cheng, Wangquan Ye, Jiaojian Song, <u>Ronger Zheng</u> [YR]	Influence of oceanic environmental factors on in-situ LIBS signals
11:50-12:05	O-19 <u>Tetsuo Sakka</u> , Atsushi Kawasaki, Ayumu <u>Matsumoto</u> , <u>Ken-ichi Amano</u> , <u>Naoya Nishi</u>	Density of atomic species in laser ablation plasma in water measured by transmission spectroscopy
12:05-12:20	O-20 <u>Huadong Wang</u> , Hongbo Fu, Junwei Jia, <u>Fengzhong Dong</u> [YR]	Phy&Chem Camera for Rock Analysis
12:20-12:35	O-21-V Bunkoukeiki ( <u>Toshio Komine</u> , AD Science)	Introduction of >F/3, small size, and high resolution echelle spectrometer EMU-120/65
12:35-14:00	Lunch	
	<b>Session 5 – Biomedical &amp; Environmental Applications</b> <b>Chairs: Lanxiang Sun, Ayumu Matsumoto</b>	
14:00-14:30	O-22-I Jong Jin Lee, Youngmin Moon, Jung Hyun Han, <u>Sungho Jeong</u> (invited)	LIBS analysis of elemental concentrations in pigmented melanocytic skin samples
14:30-14:45	O-23 <u>Tingting Shen</u> , Wenwen Kong, Fei Liu, Jiyu Peng, Lanhan Ye, Xiaodan Liu, Yong He [YR]	Analysis of cadmium stress in lettuce using laser-induced breakdown spectrometry
14:45-15:00	O-24 <u>Jiyu Peng</u> , Fei Liu, Wenwen Kong, <u>Tingting Shen</u> , Lanhan Ye, Yong He [YR]	Fast determination of chromium content in rice leaves based on laser-induced breakdown spectroscopy
15:00-15:15	O-25 <u>Rui Wang</u> , Xiaohong Ma, Liuyang Zhan, Yang Song, Huafeng Zhao, Hui Lv [YR]	Study of the Effect of Water Content in Target Samples on the Trace Element Detection in Leafy Vegetables via LIBS
15:15-15:30	O-26 <u>Muliadi Ramli</u> , Nasrullah Idris, Kurnia Lahna, Herman, Rinda Hedwig, Koo Hendrik Kurniawan	Study on Heavy Metal Pollution Due to Traditional Gold Mining Tailing by Analyzing River Clam Using an Nd-YAG Laser-Induced Breakdown Spectroscopy
15:30-15:50	Coffee Break (20minutes)	
	<b>Session 6 – Nuclear Applications</b> <b>Chairs: Kazuyoshi Kurihara, Nasrullah Idris</b>	
15:50-16:20	O-27-I <u>Hongbin Ding</u> (invited)	Recent Advance in LIBS in-situ Characterization of Fusion Materials of Fusion Devices
16:20-16:35	O-28 <u>Cailong Fu</u> , Qi Wang, Hongbin Ding [YR]	Numerical Simulation of Nanosecond LIBS on Fusion Wall Material of Tungsten
16:35-16:50	O-29 <u>Akihiko Nishimura</u> , Tomonori Yamada, Takuya Shibata, Akinori Furusawa, Yusuke Takenaka	Laser ablation and related phenomena in a human resource development program for decommissioning NPPs
16:50-17:05	O-30 <u>Ikuo Wakaida</u>	Basic R&D on decommissioning of Fukushima Daiich Nuclear Power Station and application of Laser remote analysis for in-core and in-situ monitoring of debris

17:05-17:20	O-31 Hironori Ohba, Morihisa Saeki, Koji Tamura, Tomitsugu Taguchi, Shunya Yamamoto, Ayumu Matsumoto, Katsuaki Akaoka, Ikuo Wakaida	Fiber-optic remote LIBS of materials in environment of high- dose radiation
17:20-17:30	Coffee Break (10minutes)	
17:30-19:00	Poster Session	

<b>Wednesday, August 30th</b>		
<b>Session 7 – Industrial Processes (I)</b> <b>Chairs: Hongbin Ding, Ryo Yoshiie</b>		
16:30-16:45	O-32-I Zhenzhen Wang, Yoshihiro Deguchi, Ruomu Hu, Renwei Liu, Minchao Cui, Junjie Yan, Jiping Liu (invited) [YR]	Comparison of detection ability between SP-LIBS and DP-LIBS
16:45-17:00	O-33 Shuzo Eto, Takashi Fujii [YR]	Detection of chlorine in salt attached on steel by fiber-coupled LIBS system
17:00-17:15	O-34 Shunchun Yao, Yuesheng Li, Jingbo Zhao, Weiyue Lu, Zhimin Lu, Juehui Mo [YR]	Development of a rapid coal analyzer based on laser-induced breakdown spectroscopy
17:15-17:30	O-35 Minchao Cui, Yoshihiro Deguchi, Chenxu Wang, Bowen Xue, Zifan Miao [YR]	Quantitative analysis of manganese in steel samples at different temperatures using long-short DP-LIBS
17:30-17:45	O-36 Kazuya Iwata, Hiroki Koide, Shun Sakamoto, Kazuhiro Akihama, Osamu Imamura, Hiroshi Yamasaki, Kenji Fukui, Takayuki Fuyuto [YR]	LIBS measurement of Fuel-Rich Combustion

<b>Thursday, August 31st</b>		
<b>Session 8 – Industrial Processes (II)</b> <b>Chairs: Yoshihiro Deguchi, Zhe Wang</b>		
9:15-9:45	O-37-I Jidong Lu, Meirong Dong, Shishi Li, Zhaohua Tian (invited)	Development of laser induced breakdown spectroscopy in combustion diagnosis
9:45-10:00	O-38 Ryo Yoshiie, Naoki Takeuchi, Kousei Kimura, Yasuaki Ueki, Ichiro Naruse	Analysis of unburned carbon in incineration ash using LIBS
10:00-10:15	O-39 Yun Tang, Lianbo Guo, X. Y. Li, Y. F. Lu, X. Y. Zeng	Research on Plastics Classification Algorithms in Laser-Induced Breakdown Spectroscopy
10:15-10:30	O-40 Takashi Fujii, Kouhei Motoki, Kohei Yaji, Shuzo Eto, Eiki Hotta, Tetsuya Suekane	Remote LIBS for diagnosis of porcelain insulators
10:30-10:50	Coffee Break (20minutes)	
<b>Session 9 – Applications to Steel Industry</b> <b>Chairs: Jidong Lu, Hironori Ohba</b>		
10:50-11:20	O-41-I Michihiro Aimoto (invited)	Rapid and Skill-free Defect Characterization of the Steel Products by using Laser Induced Breakdown Spectroscopy
11:20-11:50	O-42-I Lanxiang Sun, Haibin Yu, Yong Xin, Zhibo Cong (invited)	Application of LIBS in Compositional Analysis of Molten Metal and Metal Sorting
11:50-12:05	O-43 Norihiro Tsuji, Michihiro Aimoto, Hironori Sakuma, Tetsuya Suzuki, Kouji Kanehashi, Yasunori Furukawa, Satoru Makio, Takunori Taira	Development of LIBS system by using Megawatt Peak Power Microchip Laser
12:05-12:20	O-44 Yoshihiro Deguchi, Zhenzhen Wang, Minchao Cui, Fang-jung Shiou	Development of Long and Short Pulse DP-LIBS with 3D Profile Measurement to Iron and Steel Making Processes
12:20-12:35	<b>Closing Ceremony</b>	