University of Yamanashi International Symposium UYIS 2012

	質量分析に	こおける先端技術	
Sympo	sium on Advanced Te	chnologies in Mass Spectrometry	
	Organized by C Supp	Jniversity of Yamanashi orted by MEXT	
	Dec	ember 3, 2012	
	Multi-media bldg. 5F Multi-	purpose hall, University of Yamanashi	
9:30-9:45	Opening Session	Chair: Hirokazu Hori (Committee Chair)	
	Shuichiro Maeda (President of Hiroyasu Toyoki (Dean of the	f the University of Yamanashi) Faculty of Engineering, University of Yamanashi)	
9:45-11:15	Session 1	Chair: Satoshi Ninomiya*	
9:45–10:30	0 [<i>Invited</i>] An East-West Side Story of Electrospray Mass Spectrometry Masamichi Yamashita (<i>Institute of Space and Astronautical Science, Japan</i>)		
10:30-11:15	 [Invited] Secondary Ion Emission with Cluster Ion Beam: Toward Molecular Imaging of Biological Samples Jiro Matsuo (Kyoto University, Japan) 		
	11:15–11:30 11:30–13:00	Group photo Lunch time	
13:00-14:30	Session 2	Chair: Lee Chuin Chen*	
13:00-13:45	 [Invited] Development of Mass Spectrometry Analysis Systems for In-Situ Chemical and Biological Analysis Zheng Ouyang (Purdue University, USA) 		
13:45–14:30	 [Invited] Mass spectrometric profiling of biological tissues – a comprehensive tool for Histopathology Zoltán Takáts (Imperial College London, United Kingdom) 		
	14:30–14:45	Coffee break	
14:45-16:05	Session 3	Chair: Hisayoshi Matsushima*	
14:45–15:15	 [Special] New Approaches to the Cancer Diagnosis - Combination of Probe Electrospray Ionization and Machine Learning - Sen Takeda (University of Yamanashi, Japan) 		
15:15–15:40	High Pressure Ion Sourc Atmospheric Pressure Lee Chuin Chen*	es with Operating Pressure Higher Than	
15:40–16:05	Development of a High Electrospray in Vacuum Satoshi Ninomiya*	intensity Charged Droplet Beam Source Using	

16:15–17:30 Poster Session

Interdisciplinary study of medicine and engineering

- High Pressure Ion Sources with Operating Pressure Higher Than Atmospheric Pressure
 Lee Chuin Chen*
- Development of a High Intensity Charged Droplet Beam Source Using Electrospray in Vacuum
 Satoshi Ninomiya*

Clean energy

 In-situ Soft Probe Observation of Electrochemical Interfacial Phenomena Hisayoshi Matsushima*

Creation of nano-photoelectron functions

- Nonequilibrium Kubo-Martin-Schwinger relation in semiconductor electron-hole systems
 Akira Ishikawa*
- Whispering Gallery Mode Lasing from GaN Hexagonal Microdisk
 Masaru Sakai*

• Diffraction light phase shift by external magnetic field utilizing transparent magnetic diffraction gratings

Atsushi Syouji*

Integrated river basin management in Asian region

• Temperature and humidity observation over Jakarta, Indonesia from dry to pre-monsoon season

Kazuyoshi Souma*

• Plant growth-promoting rhizobacteria (PGPR): potential contribution to wastewater treatment and biomass production by using duckweed

Tadashi Toyama*

Ubiquitous nanomaterials for functional devices

• Formation of Various Metal-Oxide Nanocoating Layers on ZnO Electrodes in Dye-Sensitized Solar Cells

Shintaro Ueno*

Development of solar-to-chemical energy conversion materials

 Design of Efficient Water Oxidation Catalysts Using Abundant Metal Oxide Based on the Control of Electronic Configurations Toshihiro Takashima*

17:30–17:45	Closing Remarks	Chair: Hirokazu Hori (Committee Chair)

Kiyoshi Kobayashi (Organizing Committee)

18:15–20:15 Banquet [T1-8F Science Café]

* Tenure-track assistant professor at the University of Yamanashi