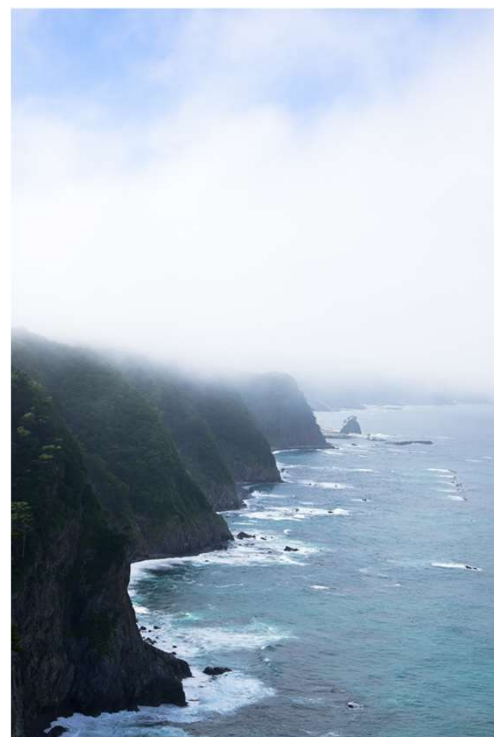
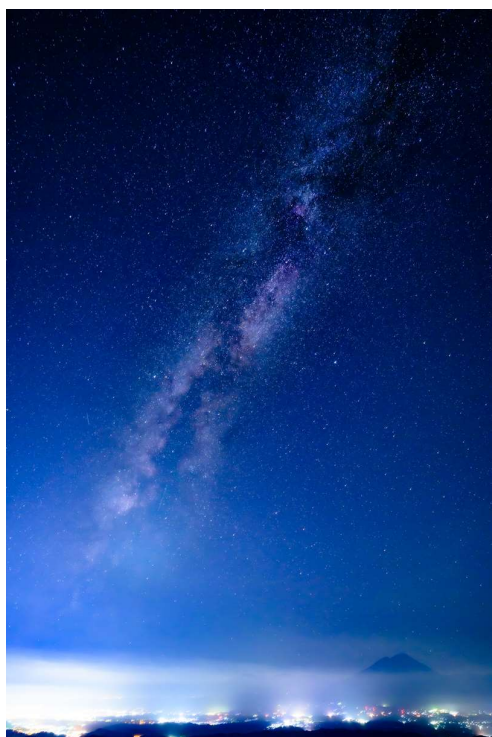


The 1st Asian Symposium for Building Future of Plasma (1st ASBFP) & International Young Electrostatic Scholar Symposium for Convergence Technology 2024 (I-YES 2024)



July 4-6, 2024

Faculty of Science and Engineering, Iwate University, Japan

Organized by



**Research committee for Young Researchers in Electrostatics, High-voltage,
Discharge and Plasma, The Institute of Electrostatics Japan**

Supported by



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Welcome to 1st ASBFP & I-YES 2024

The 1st Asian Symposium for Building Future of Plasma (1st ASBFP) & International Young Electrostatic Scholar Symposium for Convergence Technology 2024 (I-YES 2024) will be parallelly held at Iwate University, Morioka, Japan, **July. 4th - 6th, 2024.**

The 1st ASBFP is aimed to provide an international platform for discussion among young researchers in all the Asian countries, which contributes to the future developments in plasma science. The scope covers a wide range of topics related to high-voltage, electric field, plasma physics, plasma chemistry, and so on. The symposium will consist of only oral presentations in one single session to facilitate lively discussion among all of the participants. This symposium is an excellent chance to deepen friendships among young researchers and exchange their novel knowledges and technologies.

I-YES 2024 is a symposium of the students, by the students and for the students, and seeks to make interactions between Master and Doctoral students from the field of electrostatic application, particularly from universities in Japan and Korea. The symposium expects the students to deliver a balanced presentation from background knowledge to newly obtained research findings, discuss various topics, and build inspiring connections among students.

Main organizer

Research committee for Young Researchers in Electrostatics, High-voltage, Discharge and Plasma, The Institute of Electrostatics Japan

Organization Committee

The 1st ASBFP:

Katsuyuki Takahashi, Iwate University, Japan
Nozomi Takeuchi, Tokyo Institute of Technology, Japan
Li Oi Lun, Pusan National University, Korea
Yun-Chien Cheng, National Chiao Tung University, Taiwan

I-YES 2024:

Tetsu Sakakibara, Iwate University, Japan
Siqi Deng, Tokyo Institute of Technology, Japan

Sponsors

Shishido electrostatics, LTD. ASAHI KOGYOSHA, LTD.
Tokyo Instruments, Inc. MSH Systems, Inc.

List of 1st ASBFP & I-YES 2024 participants

Totally 37 Professor/Doctors and 35 students

Professors/Doctors

Name	Affiliation	Nation
Atsushi Komuro	National Institute of Advanced Industrial Science and Technology	Japan
Attri Pankaj	Kyusyu University	Japan
Beonm-Kyoeong Park	Pusan National University	Korea
Chun-Sung Jao	National Cheng Kung University	Taiwan
Dae-Yeong	Tokyo Institute of Technology	Japan
DAICHI OBATA	Department of Creative Engineering, National Institute of Technology, Kitakyushu College	Japan
Dohyung Kim	Pusan National University	Korea
Doojin Kim	Pusan National University	Korea
Hadi Davari	Arak University	Iran
Heesoo Lee	Korea Institute of Machinery and Materials	Korea
Hiroyuki Nishida	Tokyo University of Agriculture and Technology	Japan
Hongjae Kang	Korea Institute of Machinery and Materials (KIMM)	Korea
Ippei Yagi	Tokyo Metropolitan University	Japan
Jein Lee	Pusan National University	Korea
Jungwoo Lee	Pusan National University	Korea
Katsuyuki Takahashi	Iwate University	Japan
Kosuke Tachibana	Oita University	Japan
Manabu Tanaka	Kyushu University	Japan
Masato Adachi	Kyoto University, Graduate School of Engineering, Department of Mechanical Engineering and Science	Japan
Naoto Kodama	Nagoya University	Japan
Nozomi Takeuchi	Tokyo Institute of Technology	Japan
Oi Lun Li	Pusan National University	Korea
Pung Keun Song	Pusan National University	Korea
Se Hun Kwon	Pusan National University	Korea
Shungo Zen	Aoyama Gakuin University	Japan
Siwei Liu	Tohoku University	Japan
Sung-Ki Lee	Pusan National University	Korea

Tae Won Nam	Pusan National University	Korea
Takeshi IHARA	National Institute of Technology, Sasebo College	Japan
Tomohiro Kawashima	Toyohashi University of Technology	Japan
Tomoya Sato	National Institute of Advanced Industrial Science and Technology	Japan
Woojin Kim	Pusan National University	Korea
Wookjin Lee	Pusan National University	Korea
Yoshinori Mizuno	Asahi Kogyosha Co., Ltd.	Japan
Yui Okuyama	National Institute of Technology, Tomakomai College	Japan
YunChien Cheng	Natinal Yang Ming Chiao Tung University	Taiwan
Yuta Endo	National Institute of Occupational Safety and Health, Japan	Japan

Students

Name	Afflication	Nation
Deng Siqi	Tokyo Institute of Technology	Japan
Ethan Chariandy	Mc Master University	Canada
Hwi Yun Jeong	Pusan National University	Korea
Ivan Gomez Ho	National Yang Ming Chiao Tung University	Taiwan
Jae Hyun, Kim	Pusan national university	Korea
Jeong Eun Byun	Pusan National University	Korea
Jeyoung Ha	Pusan National University	Korea
Jiun-Shian LEE	Institute of Fluid Science, Tohoku University	Japan
Jongwook Jung	Pusan National University	Korea
Kaixun Yao	Tokyo Institute of Technology	Japan
Kayeong Kim	Pusan National University	Korea
Kecheng Shen	Tokyo Institute of Technology	Japan
Minsu park	Pusan national university	Korea
Mrs Siraporn Chuea-uan	Faculty of Agriculture, Chiang Mai University	Thailand
Murata Soshiro	Toyohashi University of Technology	Japan
Naohiro Takahashi	Iwate University	Japan
Qing Shanshan	Tokyo Institute of Technology	Japan
Ren Sato	Tokyo Metropolitan University	Japan
Sanghun Lee	Pusan National University	Korea
Saya Fukui	Tokyo Metropolitan University	Japan

Seo Jun Lee	Pusan National University	Korea
Seong Min Yun	Pusan national university	Taiwan
Sho Fujikura	Faculty of Science and Technology, Iwate University	Japan
Shunsuke Kamata	Iwate University	Japan
Shuta Onodera	Iwate University	Japan
Sora Inomata	Iwate University	Japan
so-young Joo	Pusan national university	Korea
SungHo Lee	Pusan National University	Korea
Sung-Yong Mun	Pusan National University	Korea
TaeKyeong LEE	Pusan national university	Korea
Tatsuya Yamamoto	Iwate University	Japan
Tetsu Sakakibara	Iwate University	Japan
Yano Takumi	The National Institute of Technology's Tomakomai College	Japan
Yuki Maeda	Iwate University	Japan
Yuki Okegawa	Tokyo Institute of Technology	Japan

Program of 1st ASBFP and I-YES 2024 in Iwate University

4th (Thurs)											
Time/Date		Session	Speaker			Presentation title		Session Chair			
13:00	18:00	Registration/Program committee meeting									
18:00	20:00	Reception at Japanese Izakaya restaurant "Ohtaru" in Morioka downtown									
5th (Fri)											
Time/Date		Session	Speaker			Presentation title		Session Chair			
Ginga Hall											
8:35	9:15	Registration									
9:15	9:20	Opening remarks									
9:20	9:50	Plenary Talk	Oi Lun Helena Li	Pusan National University	New Era of Plasma Engineering in Materials Synthesis and Surface Modification		Katsuyuki Takahashi, Iwate University				
9:50	10:00	Group photo									
1st ASPFB (Ginga Hall)					I-YES 2024 (2nd Floor of Ginga Hall)						
Time/Date		Presentation No.	Session Chair	Time/Date		Presentation No.		Session Chair			
10:00	10:15	ASBFP Session 1	Nozomi Takeuchi, Tokyo Institute of Technology	10:00	11:00	I-YES Session 1		Tetsu Sakakibara, Iwate University			
10:15	10:30			11:00	11:12						
10:30	10:45			11:12	11:24						
10:45	11:00			11:24	11:36						
11:00	11:15	Coffee break			11:36	11:48	I-YES Session 2		Yuki Okegawa, Tokyo Insititute of Technology		
11:15	11:30	ASBFP Session 2	Jung Woo Lee, Pusan National University	11:48	12:00						
11:30	11:45			12:00	12:12						
11:45	12:00			12:12	13:40	Lunch/Free discussion					
12:00	12:15			13:40	13:52	I-YES Session 2		Yuki Okegawa, Tokyo Institute of Technology			
12:15	12:30	ASBFP Session 3	Siwei Liu, Tohoku University	13:52	14:04						
12:30	14:00			14:04	14:16						
14:00	14:15			14:16	14:28						
14:15	14:30			14:28	14:40						
14:30	14:45	ASBFP Session 3	Siwei Liu, Tohoku University	14:40	14:52	I-YES Session 2		Yuki Okegawa, Tokyo Institute of Technology			
14:45	15:00			15:52	15:05				Break		
15:00	15:15			15:05	15:17				I-YES Session 3		So-young Joo, Pusan National University
15:15	15:30			Break							
15:30	15:45	ASBFP Session 4	Daichi Obata, Department of Creative Engineering, National Institute of Technology, Kitakyushu College	15:29	15:41						
15:45	16:00			15:41	15:53						
16:00	16:15			15:53	16:05						
16:15	16:30			16:05	16:17						
16:30	16:45	ASBFP Session 4	Daichi Obata, Department of Creative Engineering, National Institute of Technology, Kitakyushu College	16:17	16:30	I-YES Session 4		Ivan Gomez Ho, National Yang Ming Chiao Tung University			
16:45	17:40			16:30	16:42						
				16:42	16:54						
				16:54	17:06						
		Lab Tour/Free discussion			17:06	17:18					
					17:18	17:30					
18:00	21:00	Banquet									
6th (Wed)											
1st ASPFB (Ginga Hall)					I-YES 2024 (2nd Floor of Ginga Hall)						
Time/Date		Presentation No.	Session Chair	Time/Date		Presentation No.		Session Chair			
9:30	9:45	ASBFP Session 5	Shungo Zen, Aoyama Gakuin University	9:20	9:32	I-YES Session 5		Deng Siqi, Tokyo Institute of Technology			
9:45	10:00			9:32	9:44						
10:00	10:15			9:44	9:56						
10:15	10:30			9:56	10:08						
10:30	10:40	Break			10:08	10:20	I-YES Session 6		Jiun-Shian LEE, Institute of Fluid Science, Tohoku University		
10:40	10:55	ASBFP Session 6	YunChien Cheng, Natinal Yang Ming Chiao Tung University	10:20	10:30	Break					
10:55	11:10			10:30	10:42						
11:10	11:25			10:42	10:54						
11:25	11:40			10:54	11:06						
				11:06	11:18						
				11:18	11:35	Vote for Presentation Award					
Ginga Hall											
11:40	12:00	Closing									
12:00	16:00	Technical tour									

1st ASBFP Presentation Schedule

Time/Date		4th (Thur)		Faculty of Science and Engineering, Iwate University			
13:00	18:00	Registration/Program committee meeting					
18:00	20:00	Reception at Japanese Izakaya restaurant in Morioka downtown, "Ohtaru"					
Time/Date		5th (Fri)		Ginga Hall, Faculty of Science and Engineering, Iwate University			
		Session	Presentation No.	Speaker		Presentation title	Session Chair
8:35	9:15	Registration					
9:15	9:20	Opening remarks					
9:20	9:50	Plenary Talk	Plenary Talk (P-1)	Oi Lun Helena Li	Pusan National University	The new era of plasma engineering for materials synthesis and surface modification for renewable energies	Katsuyuki Takahashi, Iwate University
9:50	10:00	Group photo					
10:00	10:15	Session 1	Oral (O-1)	Shungo Zen	Aoyama Gakuin University	Ammonia synthesis using atmospheric pressure fluidized bed plasma	Nozomi Takeuchi, Tokyo Institute of Technology
10:15	10:30		Oral (O-2)	Dae-Yeong	Tokyo Institute of Technology	Plasma-induced Eley-Rideal reaction: Low-temperature initiation of CO2 methanation	
10:30	10:45		Oral (O-3)	Hadi Davari	Arak University	Innovative Carbon Dioxide Removal from the Air Utilizing Methane Dry Reforming via Plasma Technology	
10:45	11:00		Oral (O-4)	DAICHI OBATA	Department of Creative Engineering, National Institute of Technology, Kitakyushu College	Investigation of optimal applied voltage on the wind power generation system using electrospray method	
11:00	11:15	Coffee break					
11:15	11:30	Session 2	Oral (O-5)	Heesoo Lee	Korea Institute of Machinery and Materials	Ammonia synthesis using water and nitrogen under plasma-catalysis hybrid system	Jung Woo Lee, Pusan National University
11:30	11:45		Oral (O-6)	Naoto Kodama	Nagoya University	Analysis of Electron-Energy Loss Mechanism in Electron Collision Processes in Hot Gas for Development of Insulation Gases	
11:45	12:00		Oral (O-7)	Manabu Tanaka	Kyushu University	Developments of Thermal Plasma Generation and Its Applications	
12:00	12:15		Oral (O-8)	Hongjae Kang	Korea Institute of Machinery and Materials (KIMM)	Development process of arc plasma source for organic material recycling	
12:15	12:30		Oral (O-9)	Chun-Sung Jao	National Cheng Kung University	Neural Network Techniques for Electromagnetic Field Reconstruction in Ion Radiography	
12:30	14:00	Lunch/Free discussion					
14:00	14:15	Session 3	Oral (O-10)	Hiroyuki Nishida	Tokyo University of Agriculture and Technology	Research on Electrohydrodynamic and Thermal Characteristics of Dielectric-Barrier-Discharge Flow Control Actuator	Siwei Liu, Tohoku University
14:15	14:30		Oral (O-11)	Atsushi Komuro	National Institute of Advanced Industrial Science and Technology	Electric potential measurement of dielectric barrier discharge and analysis of net electric field	
14:30	14:45		Oral (O-12)	Attri Pankaj	Kyusyu University	A structural Analysis of the Unique Effects of Plasma-Induced Oxidation and Electric Field on Protein Structures	
14:45	15:00		Oral (O-13)	YunChien Cheng	Natinal Yang Ming Chiao Tung University	Atmospheric-Pressure Plasma Effects on Cancer Cells and Attempts of Improving Plasma Stability	
15:00	15:15		Oral (O-14)	Tae Won Nam	Pusan National University	Ultrahigh resolution quantum dot patterning for advanced applications	
15:15	15:30	Break					
15:30	15:45	Session 4	Oral (O-15)	Yui Okuyama	National Institute of Technology, Tomakomai College	Investigation of several ion mobility and collision cross sections at atmospheric pressures	Daichi Obata, Department of Creative Engineering, National Institute of Technology, Kitakyushu College
15:45	16:00		Oral (O-16)	Tomohiro Kawashima	Toyohashi University of Technology	Creepage Discharge Observation using Multi-Array Coaxial Probe	
16:00	16:15		Oral (O-17)	Masato Adachi	Kyoto University, Graduate School of Engineering, Department of Mechanical Engineering and Science	Electrostatic Handling Technologies of the Lunar Regolith for Long-Term Space Explorations	
16:15	16:30		Oral (O-18)	Yuta Endo	National Institute of Occupational Safety and Health, Japan	Simple evaluation method for spray electrification tendency of liquid	
16:30	16:45		Oral (O-19)	Tomoya Sato	National Institute of Advanced Industrial Science and Technology	Evaluation of the correlation between charging characteristics and film quality of polystyrene film	
16:45	17:30	Lab Tour/Free discussion					
18:00	21:00	Banquet at a Japanese restaurant, "Oninote"					
Time/Date		6th (Sat)		Ginga Hall, Faculty of Science and Engineering, Iwate University			
		Session	Presentation No.	Speaker		Presentation title	Session Chair

9:30	9:45	Session 5	Oral (O-20)	Kosuke Tachibana	Oita University	Investigation of argon-plasma-induced post-discharge reactions in dilute sulfuric acid by electron spin resonance method	Shungo Zen, Aoyama Gakuin University
9:45	10:00		Oral (O-21)	SungHo Lee	Pusan National University	Surface Treatment of Calcium Oxide by Plasma Process for Biodiesel Production	
10:00	10:15		Oral (O-22)	Yoshinori Mizuno	Asahi Kogyosha Co., Ltd.	Ozone Generation by Using Xenon Excimer Lamp and Application for Sterilization on Air Handling Units	
10:15	10:30		Oral (O-23)	Takeshi IHARA	National Institute of Technology, Sasebo College	Development of Compact pulsed power and its applications	
10:30	10:40	Break					
10:40	10:55	Session 6	Oral (O-24)	Siwei Liu	Tohoku University	Energy-efficiency improvement of plasma-induced shock waves	YunChien Cheng, Natinal Yang Ming Chiao Tung University
10:55	11:10		Oral (O-25)	Nozomi Takeuchi	Tokyo Institute of Technology	Reactions at plasma-liquid interface	
11:10	11:25		Oral (O-26)	Siraporn Chuea-uan	Chiang Mai University	Plasma-Enhanced Germination: A Novel Approach to Boost Plant Growth	
11:25	11:40		Oral (O-27)	Katsuyuki Takahashi	Iwate University	Environmental and Agricultural Applications of Atmospheric Pressure Pulsed Discharges Generated by Compact Pulsed Power Generators	
11:40	12:00	Closing					
12:00	16:00	Lunch and Technical Tour to "Morioka Handi-Works Squere"					

I-YES 2024 Presentation Schedule								
Time/Date		4th (Thur)		Faculty of Science and Engineering, Iwate University				
13:00	18:00	Registration/Program committee meeting						
18:00	20:00	Reception at Japanese Izakaya restaurant in Morioka downtown, "Otaru"						
Time/Date		5th (Fri)		2nd Floor of Ginga Hall, Faculty of Science and Engineering, Iwate University				
		Session	Presentation No.	Speaker		Presentation title	Session Chair	
8:35	9:15	Registration						
9:15	9:20	Opening remarks						
9:20	9:50	Plenary Talk	Plenary Talk (P-1)	Oi Lun Helena Li	Pusan National University	New Era of Plasma Engineering in Materials Synthesis and Surface Modification	Katsuyuki Takahashi, Iwate University	
9:50	10:00	Group photo						
10:00	11:00	Self introduction each other						Tetsu Sakakibara, Iwate University
11:00	11:12	Session 1	Oral (O-1)	Tatsuya Yamamoto	Iwate University	The influence of ozonation of methane fermentation digested slurry on the moisture content of dewatered sludge	Tetsu Sakakibara, Iwate University	
11:12	11:24		Oral (O-2)	Shuta Onodera	Iwate University	Influence of the pulsed electric fields(PEF) on crop yield of Shiitake mushroom		
11:24	11:36		Oral (O-3)	Mrs Siraporn Chuea-uan	Chiang Mai University	Plasma-Enhanced Germination: A novel Approach to Boost Plant Growth		
11:36	11:48		Oral (O-4)	Saya Fukui	Tokyo Metropolitan University	Numerical Analysis of Collection Characteristics of Microplastics by Dielectrophoresis		
11:48	12:00		Oral (O-5)	Jongwook Jung	Pusan National University	Finite element modeling of ring and gaussian dual laser heat sources for aluminum butt welding		
12:00	12:12		Oral (O-6)	Seong Min Yun	Pusan National University	Effect of spatial modulation on the mechanical properties of Al-Cu laser lap joint		
12:12	13:40	Lunch/Free discussion						
13:40	13:52	Session 2	Oral (O-7)	Sora Inomata	Iwate University	Odor removal using non-thermal equilibrium plasma	Yuki Okegawa, Tokyo Institute of Technology	
13:52	14:04		Oral (O-8)	Yano Takumi	The National Institute of Technology's Tomakomai College	Studey on Ozone Spatial Distribution and Generation Efficiency Using a Low-Concentration Ozone Generator		
14:04	14:16		Oral (O-9)	Ivan Gomez Ho	National Yang Ming Chiao Tung University	Low Temperature Co-fired Ceramics Device for Plasma Generation and Biomedical Applications		
14:16	14:28		Oral (O-10)	Jeyoung Ha	Pusan National University	Production of Sustainable Biodiesel by Utilizing CaO-based Catalysts Modified with Hydrothermal Reaction		
14:28	14:40		Oral (O-11)	Sanghun Lee	Pusan National University	Effect of Ag coating on the electrochemical properties of super duplex stainless steel		
14:40	14:52		Oral (O-12)	TaeKyeong LEE	Pusan National University	Estimation of high-performance boron-doped diamond electrode deposition condition for electrochemical treatment		
14:52	15:05	Break						
15:05	15:17	Session 3	Oral (O-13)	Jae Hyun, Kim	Pusan National University	Corrosion Properties of Atomic Layer Deposited ZrO2, Al2O3 and ZrO2-Al2O3 Nanolaminated Film Coated 304 Stainless Steel	So-young Joo, Pusan National University	
15:17	15:29		Oral (O-14)	Kayeong Kim	Pusan National University	Effect of grain boundary serration by heat treatment on creep behavior in Ni-based superalloy		
15:29	15:41		Oral (O-15)	Sho Fujikura	Iwate University	Development of inductive energy storage pulsed power supply using SiC semiconductor devices		
15:41	15:53		Oral (O-16)	Yuki Okegawa	Tokyo Institute of Technology	Study on Bounce Reduction of Electromagnetic Contactors		
15:53	16:05		Oral (O-17)	Naohiro Takahashi	Iwate University	Time-resolved observation of 150 kHz band high power pulse burst high-frequency discharge using a high speed video camera and an ICCD camera		
16:05	16:17		Oral (O-18)	Murata Soshiro	Toyohashi University of Technology	Waveform Characteristics Analysis of creepage discharge in cryogenic		
16:17	16:30	Break						
16:30	16:42		Oral (O-19)	so-young Joo	Pusan National University	Determination of electrochemically active surface area in assb		

16:42	16:54	Session 4	Oral (O-20)	Seo Jun Lee	Pusan National University	Synthesis of highly dispersed Pt nanoparticles into carbon supports by fluidized bed reactor atomic layer deposition to boost PEMFC performance	Ivan Gomez Ho, National Yang Ming Chiao Tung University
16:54	17:06		Oral (O-21)	Kaixun Yao	Tokyo Institute of Technology	Analysis of the Impact of Atmospheric Pressure DC Discharge Parameters on Graphene Nanoplate Treatment Outcomes	
17:06	17:18		Oral (O-22)	Ren Sato	Tokyo Metropolitan University	Efficacy of Fractional Laser in Fibrotic Tissue Flexibilization	
17:18	17:30		Oral (O-23)	Jiun-Shian LEE	Tohoku University	Electric Current Induced by Impact of High-speed Nanodroplets on a Copper Plate	
18:00	21:00	Banquet at a Japanese restaurant					
Time/Date		6th (Sat)		2nd Floor of Ginga Hall, Faculty of Science and Engineering, Iwate University			
		Session	Presentation No.	Speaker		Presentation title	Session Chair
9:20	9:32	Session 5	Oral (O-24)	Sung-Yong Mun	Pusan National University	Effects of Ag MOD Ink on Properties of SWCNT-Based Flexible Transparent Electrodes	Deng Siqi, Tokyo Institute of Technology
9:32	9:44		Oral (O-25)	Jeong Eun Byun	Pusan National University	Layer Engineered MXene Empowered Wearable Pressure Sensors for Vital Human–Machine Interfacing Healthcare Monitoring	
9:44	9:56		Oral (O-26)	Yuki Maeda	Iwate University	Influence of Fine Bubble on Generation Efficiency of Pulsed Discharge Underwater	
9:56	10:08		Oral (O-27)	Kecheng Shen	Tokyo Institute of Technology	The control of plasma induced liquid flows	
10:08	10:20		Oral (O-28)	Qing Shanshan	Tokyo Institute of Technology	Improving the efficiency of sub-water bubble assisted decomposition of PFOS using plasma	
10:20	10:30	Break					
10:30	10:42	Session 6	Oral (O-29)	Hwi Yun Jeong	Pusan National University	Effect of grain size on the shape memory effect in CrMnFeCoNi shape memory alloys	Jiun-Shian LEE, Institute of Fluid Science, Tohoku University
10:42	10:54		Oral (O-30)	Minsu park	Pusan National University	microstructure of carbon-containing CoCrFeMn high entropy shape memory alloy by laser direct energy deposition	
10:54	11:06		Oral (O-31)	Shunsuke Kamata	Iwate University	Investigation of electrode structure for generating dielectric barrier discharge for large capacity treatment of highly conductive solutions	
11:06	11:18		Oral (O-32)	Tetsu Sakakibara	Iwate University	Decomposition of Dibutyl Phosphate by Plasma Discharges over Highly Conductive Solution Surface	
11:18	11:35	Vote for Presentation Award					
11:40	12:00	Closing					
12:00	16:00	Lunch and Technical Tour					

プラズマ、燃焼、衝撃波、蛍光などの ナノ秒時間分解分光・イメージング計測に最適 最小2ナノ秒ゲーティング、ゲインを最大1000倍増幅可能

ICCD検出器 iStar



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ANDOR

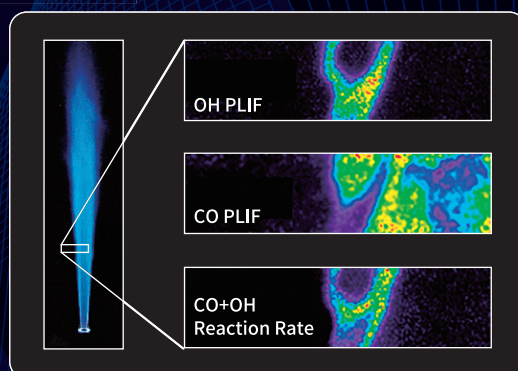
デモ可能 / 即時納品

AD05

- 最小2ナノ秒時間分解分光またはイメージング測定
- ゲインを最大1000倍増幅可能
- イメージンテンシファイア (I.I.) を搭載
- 感度直線性 >99%
- ダブル電子シャッター機能 (Intelligate™) を搭載
- ナノ秒オーダーで電子シャッター制御、瞬間現象をとらえることが可能
- 高性能デジタルディレイジェネレータ内蔵 (DDG™)
- -40℃電子冷却
- 16 bit ADコンバーター搭載
- 窒素パージ不要

用途・アプリケーション

- ラマン、蛍光、プラズマ、LIBS、顕微分光
- イメージ測定における時間分解
- フォトンカウンティングレベルの極微弱光測定



微弱光分光、ナノ秒時間分解分光を簡単測定！ 自由度の高い分光システム構築、計測時間の短縮

高感度低ノイズ分光器 Shamrock / Kymera

- 高感度マルチチャンネル検出機搭載
- 微弱光スペクトルを素早く取得
- 対応波長：200～2300 nm
- 波長分解能：0.02 nm～
- スキャニング機能で広波長範囲の分光計測
- ICCD検出器搭載で最短2ナノ秒の瞬間現象の分光計測

用途・アプリケーション

- ラマン
- PL
- CL
- 燃焼
- プラズマ
- LIBS など

OXFORD
INSTRUMENTS

ANDOR

デモ可能

AD10



TII 東京インスツルメンツ
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プラズマ分光測定に好適な各種製品ラインナップ － 小型分光器から高性能分光器・検出器を用意 －

高波長分解能マルチチャンネル分光器



HR-X Hi-Res

最高分解能
0.04 nm



HR Hi-Res

■ 超高波長分解能モデル HR-X Hi-Res

- ・ 波長範囲 240～1100 nm
- ・ 波長分解能(@HWHM) 0.04～0.09 nm@7 μ mスリット
- ・ 測定波長別に12モデルより選択可能

■ 高波長分解能モデル HR Hi-Res

- ・ 波長範囲 200～1075 nm
- ・ 波長分解能(@HWHM) 0.08～0.8 nm@14 μ mスリット
- ・ 測定波長別に8モデルより選択可能

紫外～可視～近赤外マルチチャンネル分光器



■ TEC冷却標準搭載ハイエンドモデル SILVER-Nova

- ・ 波長範囲 190 ～ 1110 nm
- ・ TEC冷却機能、ゲイン機能、ディテクターレンズ搭載
- ・ スリット交換可能 (オプション)

低価格・
短納期モデル

■ スタンダードモデル BLUE-Wave

- ・ 波長範囲 200 ～ 1100 nm
- ・ 豊富な波長ラインナップ、15モデルより選択
- ・ 低価格・高性能の優れたコストパフォーマンス



SILVER-Nova



BLUE-Wave

更に高性能な分光器、高感度検出器もご提供しています



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MSシリーズ

- ・ 焦点距離：20、35、52、75 cm
- ・ 低迷光・高分散
- ・ 出射ポート 最大2
- ・ 非点収差を抑えたイメージングモデルあり



高性能ダブル分散分光器
MSDD1000

- ・ 焦点距離：2×500 mm
- ・ 高波長分解能
- ・ 低迷光・高F値
- ・ 入射・出射ポート 最大各2



分光計測用
高感度冷却CCD検出器

- ・ 画素サイズ：15×15 μ m
- ・ 冷却温度：-70℃
- ・ 低価格・高コストパフォーマンス
- ・ 微弱光測定に有用



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