7th DGIST-Waseda Workshop on Electrochemistry 2019

Nov. 18-19, 2019 at Waseda University

Sponsored by
Unit for Energy and Nanomaterials,
Top Global University Project, Waseda University

Co-sponsored by
Department of Energy Science & Engineering
Daegu Gyeongbuk Institute of Science and Technology

Workshop Timetable (Nov. 18, 2019)

Place: Conference room (1F) in #55-N building (Nishi-Waseda Campus of Waseda Univ.)

9:00-9:30	Preparation & Registration	
	Session Chair: Prof. Toshiyuki Momma	
9:30-9:45	**Prof. Tetsuya Osaka**	Welcome address
	Prof. Hasuck Kim	Opening remarks
9:45-10:15	D-1: **Prof. Sangaraju Shanmugam**	Polymer electrolyte membranes for low humidity operating fuel cells and redox flow batteries
10:15-10:45	W-1 **Dr. Kan Hatakeyama-Sato**	Redox-active Polymer Nanoparticles for Aqueous Redox Flow Batteries
	Session Chair: Prof. Sangaraju Shanmugam	
10:45-11:15	D-2 : **Prof. Hochun Lee**	Determination of hydration numbers of ionic species using dielectric relaxation spectroscopy: its implication in thermocells and aqueous LIBs
11:15-11:45	W-2 : **Dr. Seongki Ahn**	Si- and Sn-based anode materials for energy storage devices
11:45-12:15	D-3 : **Prof. Hongkyung Lee**	Improving Li metal battery performance through interface engineering and cell designs
12:15-13:15	Lunch Break	
	Session Chair: Dr. Masahiro Kunimoto	
13:15-13:45	W-3 : **Prof. Toshiyuki Momma**	Consideration of Charge Transportation in Electrochemical Devices
13:45-14:15	D-4 : **Prof. Seung-Tae Hong**	New intercalation host materials for magnesium- and calcium-ion batteries
14:15-14:45	W-4 : **Prof. Keishi Ohashi**	Internal Environment Sensing for Human Centric IoT
14:45-15:15	D-5 : **Prof. Youngu Lee**	Novel conductive fillers for high-performance piezoresistive pressure sensors
15:15-15:30	W-5 : **Prof. Takayuki Homma**	Introduction of Power Energy Professionals Waseda Univ. Graduate Program (WISE Program, MEXT)
15:30-15:40	Break	
	Session Chair: Prof. Hongkyung Lee and Dr. Seongki Ahn	
15:40-16:50	2 min. Short Talk by Students	
17:00-18:20	Poster Presentation (1F, #63 Building)	
18:20-18:25	**Prof. Youngu Lee**	Closing remarks
18:25-18:30	Photo Time	
18:30-20:00	Reception (1F, #63 Building)	
	Closing	

Schedule of Lab. Tour (Nov. 19, 2019)

10:00 Meeting place: 1F in #55-N building

10:00-10:45 Lab. Tour in #65 building and Materials Characterization Center in Nishiwaseda Campus

10:45-11:00 Transfer to Waseda Campus by University Shuttle Bus.

11:00-12:00 Tour in 120 building

List of Poster Presentations

Place: 1F in #63 building (Nishi-Waseda Campus of Waseda Univ.)

■ DGIST

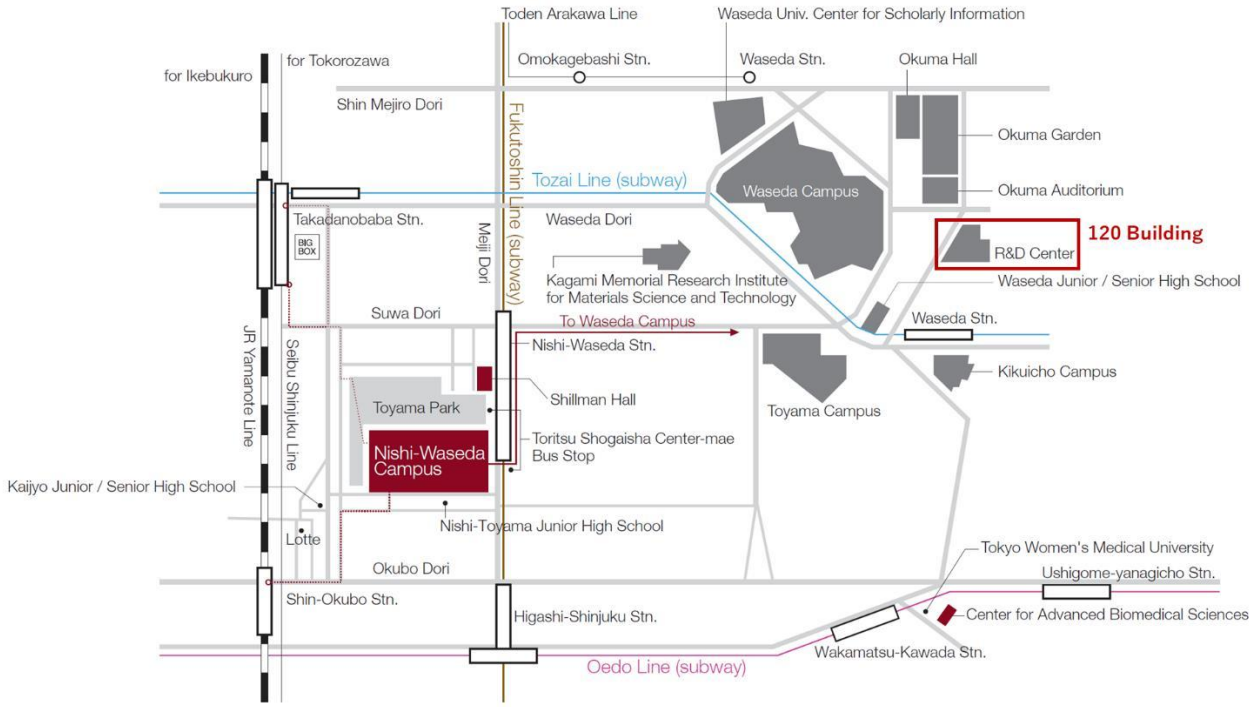
D-1	**Syed Zahid Hassan**, Hyung Jin Cheon, Changwon Choi, Seongwon Yoon, Mingyun Kang, Jangwhan Cho, Yun Hee Jang, Yun-Hi Kim, Dae Sung Chung Donor-acceptor approach to realize a low bandgap copolymer toward red-selective thin film organic photodiode
D-2	**Sukhyung Lee**, Kisung Park, Hochun Lee Designed room temperature ionic liquids (RTILs) electrolyte for Improved performance of Li metal batteries
D-3	**Hyejin Lee**, Sunwook Hwang, Jeong Hee Shin, Kyoung Ho Ahn, Chulhaeng Lee, Hochun Lee Associative Li-salt promotes Li-ion hopping conduction in acetonitrile solutions
D-4	**Md. Abdul Aziz**, Sangaraju Shanmugam Hierarchical oxygen rich-carbon nanorods electrode for high-performance all-vanadium redox flow batteries
D-5	**Youngjoon Roh**, Hyunkyu Jeon, Dahee Jin, Myung-Hyun Ryou, Yong-Cheol Jeong, Yong Min Lee Development of Flame Retarding Separator for Lithium Ion Battery by Crosslinkable Binder Coating
D-6	**Dedy Setiawan**, Munseok S. Chae, Seung-Tae Hong Intercalation Mechanism in Vanadium Dioxide as Cathode Material for Nonaqueous Magnesium Ion Batteries
D-7	**Meladia Elok P**, Jooeun Hyoung, Seung-Tae Hong The Electrochemical Performance of Potassium Vanadate as A New Cathode Material for Calcium-Ion Batteries
D-8	**Boosik jeon**, Jongwook W. Heo, Jooeun Hyoung, Hunho Kwak, Dongmin Lee, and Seung-Tae Hong Investigation of calcium intercalation into the NASICON-structured sodium vanadium phosphate for calcium-ion batteries
D-9	**Tsipoaka Maxwell**, Dabin Han, and Sangaraju Shanmugam Advanced Membrane Electrode Assembly for high current density PEFC comprised of Pyrochlore Nanorods

■ Waseda University

W-1	**Choitsu Go**, Tomoki Akahane, Kan Hatakeyama-Sato, Kenichi Oyaizu Synthesis of Phenothiazine Polymers and Application to Organic-Inorganic Hybrid Electrodes for Lithium Secondary Batteries
W-2	**Shinya Haruyama**, Toshiyuki Momma, Tetsuya Osaka Fabrication Method of Slurryless Li_2S Cathode for Li-S Battery by Chemical Lithiation with Li Naphthalenide
W-3	**Yusuke Kohase**, Keisuke Hori, Hisashi Sugime, Suguru Noda, Nobuko Hanada Electrolysis of ammonia in aqueous solution by platinum nanoparticle-supported carbon nanotube film electrode
W-4	**Minori Fukushima**, Toshiyuki Momma, Tetsuya Osaka Analysis of Effect Fluoroethylene Carbonate Adittive of Lithium Ion Capacitor Using Graphite Anodes
W-5	**Shuei Watanuki**, Yasuhiro Fukunaka, Takayuki Homma Pulsed electrodeposition of Si under light illumination in ionic liquid
W-6	**Kae Miyashiro**, Toshiyuki Momma, Tetsuya Osaka Immobilization of TEMPO to Carbon Paper Cathode for Li-O_2 battery
W-7	**Natsuho Akagi**, Keisuke Hori, Hisashi Sugime, Suguru Noda, Nobuko Hanada Investigation of anode catalyst on liquid ammonia electrolysis for hydrogen production
W-8	**Munenori Hirata**, Toshiyuki Momma Numerical Analysis of Chronoamperogram in an Electrochemical System with a Small Distance between Working Electrode and Counter Electrode
W-9	**Satoshi Matsumoto**, Kan Hatakeyama-Sato, Kenichi Oyaizu Synthesis of Imidazolium-substituted Polyethers and Their Application to Solid-state, Organic Polymer Batteries
W-10	**Ryo Toyama**, Toshiyuki Momma, Tetsuya Osaka Sensitive Detection of Uncharged Stress Hormone Using Aptamer-Immobilized FET Biosensors Fabricated by Target-Aptamer Complex
W-11	**Kentaro Kaneko**, Keisuke Hori, Suguru Noda Highly heat-resistant battery separator based on boron nitride nanotube
W-12	**Naoki Sakamoto**, Toshiyuki Momma, Tetsuya Osaka Electrochemical Sensing of Stress Biomarker by Field Effect Transistor Biosensor Using Jacalin as a Small Receptor
W-13	**Chuyi Chen**, Mikiko Saito, Takayuki Homma Morphology control of electrodeposited Cu doped p-type Bi-Sb-Te thermoelectric film

MAP

· Vicinity Map



· Campus Map (Nishi-Waseda Campus)

Okubo 3-4-1, Shinjuku, Tokyo 169-8555, Japan