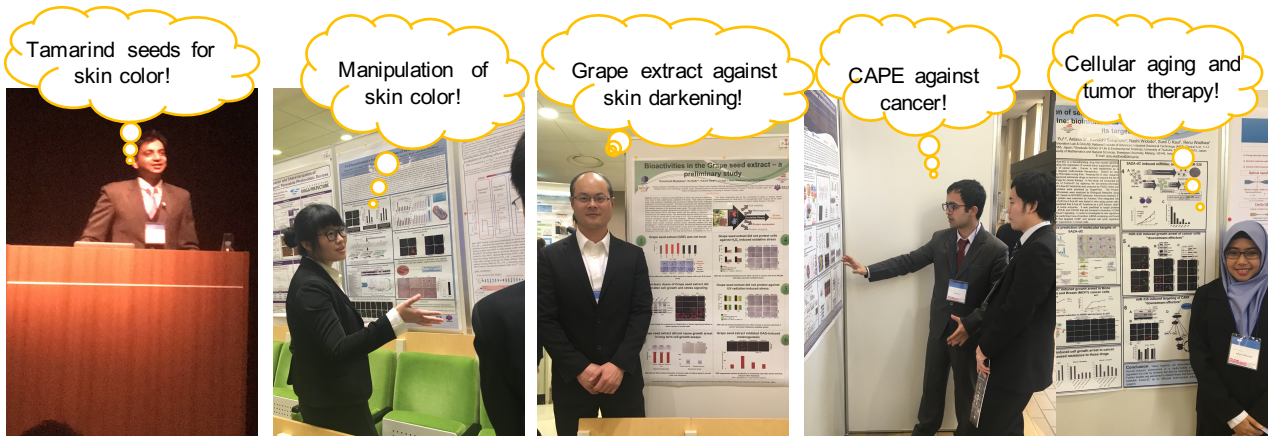


1 - 2 NOV 2017
University of Electro-Communications,
Chofu City, Tokyo

DAILAB Members (**Rajkumar Singh Kalra, Sukant Garg, Anissa Sari, Ashish Kaul, Wang Jia, He Huifu**) participated in the IRAGO CONFERENCE that provide an 'interdisciplinary-platform' to enhance mutual understanding between scientists, engineers, policy makers, and experts from a wide spectrum of pure and applied sciences in order to resolve the daunting global issues facing mankind. Graduate students had the opportunity to participate and talk directly with internationally renowned academics, industrialists, and opinion leaders like Silvia Destri (Istituto per lo Studio delle Macromolecole (ISMAC-CNR), Italy), Hiroshi Konno (Akita Konno Co., Ltd., Japan), Jing-Feng Li (Tsinghua University, China), Hiroyuki Muto (Toyohashi University of Technology, Japan), Ken Nagashima (Railway Technical Research Institute, Japan), Ian S. Osborne (Science Magazine, UK), Hirotaka Sato (Nanyang Technological University, Singapore), Junko Taniguchi (University of Electro-Communications, Japan), Shuichi Tomita (National Agriculture and Food Research Organization, Japan), Kazuyoshi Tsuchiya (Tokai University, Japan), Simone Wiegand (Forschungszentrum Jülich GmbH, Germany), Shu Yamaguchi (University of Tokyo, Japan), and Fumitaka Yanagisawa (Clarivate Analytics, Japan). Areas covered were polymeric nanoparticles for optoelectronic devices, Materials for food science, Piezoelectric and thermoelectric materials, Carbon composites, Maglev and superconductors, "Cyborg insect", Superfluid confinement in one-dimensional nanotubes, Modern production of silk, Micro-pH sensors, Smart temperature gradients, and Bibliometric analysis of trends in materials science. It was a great platform for training and initiating new collaborations.



The Irago Conference

"360 degree outlook on critical scientific and technological challenges for a sustainable society"

Interdisciplinary Research And Global Outlook

Organized by the University of Electro-Communications Tokyo, Tokai University and Toyohashi University of Technology

Nov.1 (Wed)		Nov. 2 (Thu)	
8:00	Registration	8:50	Opening
9:00	Opening (Kazushi Nakano)	9:00	Chair:
9:15	Chair:	02AM1-1 (Invited 9)	9:00 ~ 9:30
01AM1-1 (Invited 1)	9:15 ~ 9:45	Shuichi Tomita (NARO*1, Japan)	"Production of the Cocoons Containing Recombinant Silks: Regulation and Realization"
Ian S. Osborne (Science Magazine, UK)		02AM1-2 (Invited 10)	9:30 ~ 10:00
"Publishing in Science - from the inside out"		Ken Nagashima (Railway Technical Research Institute, Japan)	"Maglev and Superconducting Technology"
9:45	01AM1-2 (Invited 2)	10:00	02AM1-3 (Invited 11)
Shu Yamaguchi (University of Tokyo, Japan)	9:45 ~ 10:15	Kazuyoshi Tsuchiya (Tokai University, Japan)	10:00 ~ 10:30
"Oxide Surface Phonons: Proton Activity on Hydrated Oxide Surface"		"Fabrication of PZT Thin Film Actuator and Microneedle pH Sensor by RF Magnetron Sputtering Method"	
10:15	01AM1-3 (Invited 3)	10:30	(Break)
Simone Wiegand (Forschungszentrum Juelich GmbH, Germany)	10:15 ~ 10:45	10:45	Chair:
"Towards Smart Applications Using Temperature Gradients"		02AM2-1 (Contributed Talk 1)	10:45 ~ 11:00
10:45	Chair: Tetsuo Kishimoto	S. Garg (AIST*2; University of Tsukuba, Japan)	"Bioactivities in the Tamarind seed extracts - a preliminary study"
PPS (Premium Poster Session)	10:45 ~ 11:45	11:00	02AM2-2 (Contributed Talk 2)
Poster session with short talk		Y. Ishida (Yokohama National University, Japan)	11:00 ~ 11:15
PPS1: V. Vohra (University of Electro-Communications, Japan)		"Improvement of Solar Cell Characteristics by Using Quantum-Dot Superlattice Prepared by Sedimentation Method"	
PPS2: Y. Sunami (Tokai University, Japan)		11:15	02AM2-3 (Contributed Talk 3)
PPS3: H. Tanji-Suzuki (University of Electro-Communications, Japan)		K. M. Shaif (University of Electro-Communications, Japan)	11:15 ~ 11:30
PPS4: J. Sasano (Toyohashi University of Technology, Japan)		"Single Quantum Dots on an Optical Nanofiber at Cryogenic Temperature"	
PPS5: T. Sakai (University of Electro-Communications, Japan)		11:30	02AM2-4 (Contributed Talk 4)
PPS6: R. Kato (Toyohashi University of Technology, Japan)		L. L. Y. Win (Tokyo Institute of Technology, Japan)	11:30 ~ 11:45
PPS7: Y. Jiang (University of Electro-Communications, Japan)		"Study of Carrier Behavior in Organic-Inorganic Hybrid Perovskite Materials by using Optical Spectroscopic Method"	
PPS8: Y. Okamura (Tokai University, Japan)		11:45	(Break) Lunch Box Delivery
PPS9: Q. Shen (University of Electro-Communications, Japan)		12:00	Chair: Students
(Each posters above are also available in Poster Session)		02GSS (Graduate Student Session, Lunchtime session)	12:00 ~ 13:10
11:45	(Break) Group Photo and Lunch Box Delivery	13:10	02P (Poster Session)
12:05	Chair: Students	(Including posters from Graduate Student Session)	13:10 ~ 14:10
01GSS (Graduate Student Session, Lunchtime session)	12:05 ~ 13:15	14:10	Chair:
13:15	01P (Poster Session)	02PM1-1 (Invited 12)	14:10 ~ 14:40
(Including posters from Graduate Student Session)	13:15 ~ 14:15	Silvia Destri (ISMAC-CNR*3, Italy)	"Polymers and Water Processed Polymeric Nanoparticles as Materials for Solution Manufacturing of Optoelectronic and Electronic Devices"
14:15	Chair:	14:40	02PM1-2 (Invited 13)
01PM1-1 (Invited 4)	14:15 ~ 14:45	Junko Taniguchi (University of Electro-Communications, Japan)	14:40 ~ 15:10
Jing-Feng Li (Tsinghua University, China)		"Novel Superfluid Response of 4He Confined in One-Dimensional Nanotube"	
"New Piezoelectric and Thermoelectric Materials"		15:10	02PM1-3 (Contributed Talk 5)
14:45	01PM1-2 (Invited 5)	M. Aidiaba (Kanazawa University, Japan)	15:10 ~ 15:25
Hiroyuki Muto (Toyohashi University of Technology, Japan)	14:45 ~ 15:15	"On Autonomous Driving: LIDAR Based Mapping and Localization Systems (Problems and Challenges)"	
"Novel Fabrication Process of Advanced Composite Materials via Electrostatic Adsorption Assembly Technique"		15:25	(Break)
15:15	01PM1-3 (Invited 6)	15:45	Chair:
Fumitaka Yanagisawa (Clarivate Analytics, Japan)	15:15 ~ 15:45	Session: Diversity in academia and industry	15:45 ~ 17:15
"Interdisciplinary Research Around Material Sciences: Trend From Bibliometric Analysis"		17:15	Closing and Awards ceremony
15:45	01PM1-4 (Invited 7)	17:30	
Hiroshi Konno (Akita Konno Co., Ltd., Japan)	15:45 ~ 16:15	(*) NARO: The National Agriculture and Food Research Organization	
"A Secret and Sophisticated Japanese Food Tradition, Koji"		(*) AIST: The National Institute of Advanced Industrial Science and Technology	
16:15	01PM1-5 (Invited 8)	(*) ISMAC-CNR: Istituto per lo Studio delle Macromolecole del Consiglio Nazionale delle Ricerche	
Hirotaka Sato (Nanyang Technological University, Singapore)	16:15 ~ 16:45		
"CYBORG INSECT: Insect-Computer Hybrid Machine for Flight and Walking"			
16:45	Control		
19:00	AAAS Science Fall Meeting 2017/ Irago Conference Meeting 2017 Evening Session		
21:00	(Keio Plaza Hotel, Shinjuku)		