

Feb. 29th @ L4E48

OIST-KYUDAI Joint Symposium series 1

-Bio-Inspired Wonders and Energy Innovations-



Abstracts

PROGRAM

This program is subject to change.

OPENING

9:30 0:10 **Welcome Address and Explanation Shinka Grant / Kyudai matching Grant by Dr. Nick Luscombe, OIST Dean of Research**

9:40 0:05 **Meet n' Greet**

TALK SESSION 1: Nature/Bio-inspired (Engineering) Themes

9:45	0:15	Tadashi Yamamoto	Professor, OIST	Modalities of gene regulation mediated by the CCR4-NOT deadenylase complex	Chair: Natsuko Hamamura/ Lauren Sallan	
10:00	0:15	Natsuko Hamamura	Professor, Kyudai	Exploring microbe-mineral interactions and biotransformation of toxic metalloids for potential application in metal-biotechnology		
10:15	0:15	Franz Meitinger	Assistant Professor, OIST	Mitotic stress dependent activation of the tumor suppressor p53		
10:30	0:15	Mikita Suyama	Professor, Kyudai	Searching for causative mutations of genetic disorders focusing on splice-site-creating mutations		
10:45	0:15	Nick Luscombe	Professor, OIST	Genomic scramble in marine plankton		
11:00	0:15	Seiji Arakaki	Associate Professor, Kyudai	Introduction of the Amakusa Marine Biological Laboratory as a field center for ecological studies on coastal environments		
11:15	0:15	Lauren Sallan	Assistant Professor, OIST	Teasing Apart the Origins, Function, and Diversification of Novel Forms in Fishes		
11:30	0:15	Koji Shimoyama	Professor, Kyudai	Data-driven and data-informed design of fluid machinery		
11:45	1:15	Lunch				

TALK SESSION 2: Energy and Sustainability (Materials, Chemistry, Energy)

13:00	0:15	Akimitsu Narita	Assistant Professor, OIST	Molecular Synthesis and Functionalization of Atomically Precise Fluorescent Nanographenes	Chair: Ryotaro Aso/ Ryota Kabe	
13:15	0:15	Ryo Ohtani	Associate Professor, Kyudai	Functional cyanido-based solid state materials consisting of tetracyanommetallate units		
13:30	0:15	Christine Luscombe	Professor, OIST	Towards sustainable methods to synthesize semiconducting polymers		
13:45	0:15	Naoki Tanaka	Assistant Professor, Kyudai	Doping strategy of single-walled carbon nanotube films for thermoelectric generators		
14:00	0:15	Ryotaro Aso	Associate Professor, Kyudai	Nanoscale analysis by using advanced electron microscopy		
14:15	0:15	Toshinori Matsushima	Associate Professor, Kyudai	Halide perovskites for optoelectronics applications		
14:30	0:15	Ryota Kabe	Assistant Professor, OIST	Optoelectronic properties of stable organic charge carriers		
14:45	0:15	Ken Onda	Professor, Kyudai	Time-resolved Spectroscopic Studies on Fundamental Processes in Photofunctional Materials		
15:00	0:15	Shigenori Fujikawa	Professor, Kyudai	Free-standing nanomembranes for CO2 capture directly from the air		
15:15	0:30	Intermission (Coffee table)				

TALK SESSION 3: Cross-disciplinary Themes

15:45	0:15	Yoshinori Okada	Associate Professor, OIST	Rich electronic emergence in low dimensional material	Chair: Shigenori Fujikawa
16:00	0:15	Takeshi Yanagida	Professor, Kyudai	Robust Artificial Olfactory Systems by Designing Metal Oxide Nanostructures and Interfaces	
16:15	0:15	Kazutoshi Kato	Professor, Kyudai	Terahertz wave generation and its application	
16:30	0:15	Mahesh Bandi	Professor, OIST	Fluctuations in Renewable Energy	
16:45	0:15	Kazuya Saito	Associate Professor, Kyudai	Bioinspired Deployable Structures	
17:00	0:15	Haruichi Kanaya	Professor, Kyudai	Battery-less Sensor Platform	
17:15	0:15	Tsumoru Shintake	Professor, OIST	Inspired Chain: From X-ray Crystallography to Electron Microscopy and EUV lithography	
17:30	0:15	Ayato Kanada	Assistant Professor, Kyudai	Woodpecker's Tongue-inspired Manipulator	
17:45	0:15	Fujio Tsumori	Professor, Kyudai	Biomimetic Engineering: Functional Surfaces and Soft-robots	

Closing

18:00 0:05 Closing remarks by Dr. Aya Hagishima

Reception Dinner / Poster Session with Flash Talk

18:15 1:45 Please proceed to the Lab 5 level D Atrium if you have registered to attend the reception dinner.



Post-event Survey