

**October 24, 2022**

---

9:00		Opening
9:10	<b>Prof. Hidetoshi Fukuyama</b> <b>Tokyo University of Science</b>	Thermoelectricity and SDGs
10:00		Break
10:20	<b>Yongyoon Cho</b> <b>NAIST</b>	Development of dispersion methods for carbon nanotube and its bio-molecule composite yarns
10:40	<b>Naoki Tanaka</b> <b>Kyushu University</b>	Development of thermoelectric devices by photoinduced electron doping of single-walled carbon nanotubes
11:00	<b>Shun-ichiro Ito</b> <b>Nagoya University</b>	The effect of side chain density on structure and thermoelectric properties of doped polythiophene films
11:20		Break
11:40		Short Poster Preview (#1-12)
12:00		Lunch
13:30	<b>Prof. Junichiro Shiomi</b> <b>The University of Tokyo</b>	Directional heat conduction by nanotube and nano-cellulose assemblies
14:20		Break
14:40	<b>Shunya Sakane</b> <b>Chuo University</b>	Thermoelectric power factor enhancement of Cu <sub>2</sub> Se nanowires/PEDOT:PSS composite thin films
15:00	<b>Paolo Mele</b> <b>Shibaura Institute of Technology</b>	Thermoelectric properties of Al-doped ZnO composite films with polymer nanoparticles prepared by pulsed laser deposition
15:20	<b>Masakazu Nakamura</b> <b>Nara Institute of Science and Technology</b>	Giant Seebeck Effect over 0.1 V/K - A Unique but Universal Phenomenon in Pure Organic Semiconductors -
15:40		Break

16:00	Poster (#1-12)
17:00	Free Discussion (~17:30)

---

### October 25, 2022

---

9:00	<b>Prof. David Cahill</b> <b>University of Illinois</b>	Low, high, and switchable thermal conductivity in soft materials
9:50		Break
10:10		Short Poster Preview (#13-26)
10:30		Poster (#13-26)
11:30	<b>Giovanna Latronico</b> <b>Shibaura Institute of Technology</b>	Developing of a printed thin-film thermoelectric device on a paper substrate
11:50	<b>Hideki Uchida</b> <b>Zeon Corporation</b>	Development of thermoelectric devices and IOT sensing system with CNT sheet
12:10	<b>Qingshuo Wei</b> <b>AIST</b>	Long-life, lightweight organic thermoelectric modules for IoT sensors
12:30		Closing

---

### Poster

---

1	<b>Anjum Mustafa</b> <b>Kyushu Institute of Technology</b>	Thermoelectric properties of $\text{MASnI}_3$ with Cl dopant
2	<b>Kazuhiro Yoshida</b> <b>Kyoto Institute of Technology</b>	Atmospheric stability of n-type semiconducting carbon nanotubes
3	<b>Masaya FUJIMURA</b> <b>Kyushu Institute of Technology</b>	Development of steady-state measurement process with high precision of thermal conductivity of metal wires by using self-Joule heating method

4	<b>N. Hirayama</b> <b>Shimane University</b>	Electronic structure engineering of Mg <sub>2</sub> Si by Isotropic Strain and Isoelectronic Impurity Doping
5	<b>Ichiro Imae</b> <b>Hiroshima University</b>	Thermoelectric Properties of Free-standing Conductive Films Prepared from PEDOT:PSS and EMIM:TCB
6	<b>Miki Morimoto</b> <b>Hiroshima University</b>	Side-Chain Engineering to Balance Processability and Thermoelectric Properties in Alkoxy-substituted Polythiophenes
7	<b>T. Komori</b> <b>Tokai University</b>	Power generation of carbon nanotube films with PN junction by uniform light exposure
8	<b>Katsuma Miura</b> <b>Tokai University</b>	Improved performance of heat source free water-floating carbon nanotube thermoelectric generators controlling wettability using atmospheric-pressure plasma jet and waterproof spray
9	<b>Juhyung Park</b> <b>Seoul National University</b>	Effects of microstructure on the charge transport and thermoelectric performance of the polymer-inorganic hybrid films
10	<b>M. Matsubara</b> <b>Tokyo University of Science</b>	Theoretical Prediction of Optimal Thermoelectric Properties of Impurity-doped Carbon Nanotubes
11	<b>Shohei Horike</b> <b>Kobe University</b>	Organic Superbases as n-Type Inducer of Carbon Nanotubes for Flexible Thermoelectric Generator
12	<b>Y. Amma</b> <b>Tokai University</b>	Performance improvement of heat source free water-floating carbon nanotube thermoelectric generators modifying device structures

13	<b>Yota Ichinose</b> <b>Tokyo Metropolitan University</b>	Study on the temperature and chemical potential dependence of thermoelectric properties of single walled carbon nanotube thin films
14	<b>Kan Ueji</b> <b>Tokyo Metropolitan University</b>	Out-of-plane heat and electrical flows in semiconducting single-walled carbon nanotube film
15	<b>Itsuki Yamaguchi</b> <b>Kyushu University</b>	Elucidation of mechanism of dopant cations formation in solution for electron doping of single-walled carbon nanotubes
16	<b>Ryoto Yura</b> <b>Kyoto Institute of Technology</b>	Thermoelectric properties of ladder polymer BBL n-doped using crown ether complexes
17	<b>Y. Ampo</b> <b>Kyushu Institute of Technology</b>	Development of Halide Perovskite CsSnI <sub>3</sub> Coated Films Doped Heavy Metal Ions
18	<b>Hiroataka Inoue</b> <b>The University of Tokyo</b>	Thermocell based on thermo-responsive hydrogen bond with benzoquinone derivative
19	<b>Koki Hoshino</b> <b>Tokai University</b>	Single-walled carbon nanotube films containing Sb <sub>2</sub> Te <sub>3</sub> nanoparticles and electrodeposited Sb <sub>2</sub> Te <sub>3</sub> layer coating for thermoelectric applications
20	<b>Hongyao Zhou</b> <b>The University of Tokyo</b>	Direct Conversion of Phase Transition Entropy of Redox-active Polymer into Thermoelectric Voltage
21	<b>Kazenosuke Kobayashi</b> <b>Kyushu Institute of Technology</b>	Heat conduction across Bi <sub>2</sub> Te <sub>3</sub> -CsSnI <sub>3</sub> interface using molecular dynamics simulation
22	<b>R. Konagaya</b> <b>Tokai University</b>	Fabrication and evaluation of dual-type flexible thermoelectric generators using single-walled carbon nanotube films
23	<b>Ken Nishiura</b> <b>Zeon Corporation</b>	Development of thermoelectric device structure and process with CNT sheet

24	<b>Sakura Kishishita</b> <b>Kyusyu Institute of Technology</b>	Deposition of $\text{Bi}_{0.4}\text{Sb}_{1.6}\text{Te}_3$ -Halide Perovskite Composite Films by Printing Method and Characterization of Thermoelectric Properties
25	<b>K. Susukida</b> <b>Kyusyu Institute of Technology</b>	Development of Composite Printing Film Composed of Rare Earth Free n-type $\text{CoSb}_3$ and Polyimide
26	<b>S. Yamamoto</b> <b>Nara Institute of Science and Technology</b>	Alignment evolution of the carbon nanotube during the yarn-spinning process

---