**International Symposium on Thermal and Entropic Science for Young Thermodynamicists (ISTES-YT2021)**

**11–12, June, 2021, Osaka University, Osaka, JAPAN**

**Zoom Online**

Keynote Lecture: 30 min (25 min talk + 5 min discussion)

Oral Presentation: 20 min, 15 min (15 min talk + 5 min discussion, 10min talk + 5min discussion)

**Program**

Friday, 11, June, 2021

14:00–14:10 Opening Remarks: Prof. Motohiro Nakano (Osaka University, JAPAN)

*Chair: Prof. Motohiro Nakano*

14:10–14:40 Keynote Lecture 1: Prof. Takasuke Matsuo (Professor Emeritus at Osaka University, JAPAN)

 “The First- and Second-Order Mechanocaloric Effects in Elastomers”

14:40–15:00 O1: Prof. Kiyonori Takahashi (Hokkaido University, JAPAN)

 “Deformation of Supramolecular Cation and Physical Properties of Nickel Dithiolate Magnetic Crystals”

15:00–15:20 O2: Prof. Yoji Horii (Nara Women’s University, JAPAN)

 “Strong Magnetic Anisotropy of a NO Molecule Encapsulated in Open-Cage Fullerene Derivatives Captured by Heat Capacity Analyses”

15:20–15:35 O3: Ms. Fatima Klongdee (Khon Kaen University, THAILAND)

 “Synthesis, Structures and Optical Sensing Properties of Zn(II) and Cu(II) Complexes Based on Pyrazole-3,5-dicarboxylate and *N*,*N*′-Chelating Ligand”

15:35–15:50 Break

*Chair: Prof. Satoshi Yamashita*

15:50–16:10 O4: Prof. Mafumi Hishida (University of Tsukuba, JAPAN)

 “Change in the Hydration State Due to the Structural Phase Transitions of Soft Matter”

16:10–16:30 O5: Dr. Yoshinori Ohmasa (The University of Tokyo, JAPAN)

 “Heat Capacity Measurement of Cluster Materials Li(CB9H10) and 0.7Li(CB9H10)-0.3Li(CB11H12): Correlation of Cluster Ordering and Li Ionic Conduction”

16:30–16:50 O6: Dr. Eri Nishiyama (Kokushikan University, JAPAN)

 “Construction of a Top-Loading Adiabatic Calorimeter Equipped with a Refrigerator”

16:50–17:00 Break

*Chair: Prof. Hal Suzuki*

17:00–17:20 O7: Prof. Shusaku Imajo (The University of Tokyo, JAPAN)

 “High-Resolution Heat Capacity Measurements in Pulsed Magnetic Fields”

17:20–17:35 O8: Mr. Luming Zhang (Osaka University, JAPAN)

 “Thermal Conductivity of the Two-Dimensional Layered Compound (*n*-BuNH3)2CuCl4”

17:35–17:50 O9: Mr. Kenta Hashimoto (Tokyo Institute of Technology, JAPAN)

 “Anomalous Thermal Conductivity Behavior with Metal-Insulator Transition in CuIr2S4”

17:50–18:00 Break

*Chair: Prof. Yuji Miyazaki*

18:00–18:20 O10: Prof. Yukio Terashima (Naruto University of Education, JAPAN)

 “An Attempt at Mapping Ionic Liquids in Terms of Glass Transition and Fragility”

18:20–18:40 O11: Prof. Atsushi Nagoe (Kokushikan University, JAPAN)

 “Thermal Behavior of Molecular Liquid Confined within Mesoporous Silica”

18:40–19:00 O12: Prof. Soichi Tatsumi (Kyoto Institute of Technology, JAPAN)

 “Seeking Ideal Glass via the Oligomer-Polymer Mixture”

19:00–19:20 O13: Prof. Marika Yokota (Nihon University, JAPAN)

 “Prediction of the Heat Capacity of Main-Chain-Type Polymers below the Glass Transition Temperature”

19:20–19:50 Keynote Lecture 2: Prof. Ewa Juszyńska-Gałązka (The Henryk Niewodniczański Institute of Nuclear Physics, POLAND)

 “Dynamic and Polymorphism of Polar Substances with Various Degrees of Ordering of Molecules”

Saturday, 12, June, 2021

*Chair: Prof. Yasuhiro Nakazawa*

10:00–10:30 Keynote Lecture 3: Prof. Yuko Ichiyanagi (Yokohama National University, JAPAN)

 “Magnetic Nanoparticles for Therapy and Diagnostics”

10:30–10:50 O14: Prof. Suguru Kitani (Tokyo Institute of Technology, JAPAN)

 “Low-Temperature Physical Properties of *S* = 3/2 Hyperkagome Antiferromagnet ZnMgMn3O8”

10:50–11:10 O15: Dr. Sandhya Singh (University of Otago, NEW ZEALAND)

 “Spin Crossover in Iron(II) Dinuclear Helicates and Tetranuclear Cages”

11:10–11:25 O16: Mr. Keita Kodama (Yokohama National University, JAPAN)

 “Magnetic Properties of Ni-Zn Ferrite Nanoparticles and Heat Generation Evaluation by Néel and Brownian Relaxation”

11:25–11:40 O17: Mr. Kentaro Ohara (Yokohama National University, JAPAN)

 “Preparation of Biocompatible Ni-Ferrite Nanoparticles and Magnetic Hyperthermia Effect”

11:40–13:00 Lunch

*Chair: Prof. Atsushi Nagoe*

13:00–13:20 O18: Prof. Satoshi Yamashita (Osaka University, JAPAN)

 “Liquid Like Ion Conduction in Novel Type Complexes”

13:20–13:40 O19: Dr. Mariko Noguchi (Nihon University, JAPAN)

 “Successive Melting of Long Alkyl Chains in 5,10,15,20-Tetrakis(4-alkoxycarbonylphenyl)porphyrin”

13:40–13:55 O20: Mr. Taro Yamamoto (Kindai University, JAPAN)

 “Phase Diagrams and Thermodynamic Properties of Cationic Surfactant CTAB/Water System”

13:55–14:10 O21: Ms. Miyu Umeda (Kindai University, JAPAN)

 “Recrystallization Annealing Effects on the Melting Behaviors of Silicone Rubbers under Stretching”

14:10–14:20 Break

*Chair: Prof. Hiroki Akutsu*

14:20–14:40 O22: Prof. Shuhei Fukuoka (Hokkaido University, JAPAN)

 “Phase Diagram and Anomalous Magnetic Properties in -d System of -(BEDT-STF)2Fe*x*Ga1*x*Cl4”

14:40–15:00 O23: Dr. Tetsuya Nomoto (The University of Tokyo, JAPAN)

 “Magnetic-Field Response of Charge-Glass State in Quasi-2D Organic Conductors”

15:00–15:15 O24: Mr. Emre Yesil (Osaka University, JAPAN)

 “Quantum Liquid-Liquid Phase Transition around the Spin Liquid State in a -Type Organic Charge Transfer Complex System”

15:15–15:25 Closing Remarks: Prof. Motohiro Nakano (Osaka University, JAPAN)