

The 44th Japanese Conference on Calorimetry and Thermal Analysis

Dates: October 16 - 18, 2008

Place: Tsukuba International Congress Center

October 16			October 17			October 18		
Room A	Room B	Room C	Room A	Room B	Room C	Room A	Room B	Room C
10:00～11:00 Liquids, Solutions, Organized Systems and Interfaces (1)	10:00～11:00 Instrumentation and Theoretical Aspects (1)	10:00～11:00 Magnetic Materials and Molecular Complexes (1)	9:20～11:00 Liquids, Solutions, Organized Systems and Interfaces (4)	9:20～10:20 Environment and Energy	9:20～11:00 Biological Thermodynamics, Pharmaceutical Materials and Foods (2)	9:20～10:10 JSCTA Award Lecture AW1 (Room A)	10:10～11:00 JSCTA Award Lecture AW2 (Room A)	
11:10～12:00 Plenary Lecture 1S1110 (Room A)			11:00～12:00 Poster Session II (Even Numbers)			11:10～11:40 JSCTA Research Encouragement Award Lecture AW3 (Room A)		
12:00～13:20 Lunch			12:00～13:10 Lunch			11:40～12:10 JSCTA Research Encouragement Award Lecture AW4 (Room A)		
13:20～14:10 Plenary Lecture 1S1320 (Room A)			13:10～13:50 Plenary Lecture 2S1310 (Room A)			12:10～13:20 Lunch		
14:20～15:40 Liquids, Solutions, Organized Systems and Interfaces (2)	14:20～15:40 Instrumentation and Theoretical Aspects (2)	14:20～15:40 Magnetic Materials and Molecular Complexes (2)	13:55～16:50 Mini Symposium	14:00～15:20 Metals, Inorganic Solids and Ceramics (2)	13:20～15:20 Liquids, Solutions, Organized Systems and Interfaces (5)	13:20～15:00 Metals, Inorganic Solids and Ceramics (4)	13:20～15:20 Polymers and Organic Materials (2)	
15:50～16:50 Liquids, Solutions, Organized Systems and Interfaces (3)			15:50～16:50 Instrumentation and Theoretical Aspects (3)	15:50～16:50 Biological Thermodynamics, Pharmaceutical Materials and Foods (1)	15:30～16:50 Metals, Inorganic Solids and Ceramics (3)	15:30～16:50 Polymers and Organic Materials (1)		
16:55～17:55 Poster Session I (Odd Numbers)			16:55～17:55 JSCTA the 35th Annual General Meeting (Room A)					
16:55～18:55 Senior Member's Meeting			18:00～20:00 Conference Dinner					

October 16, 2008

Room A	Room B	Room C
Liquids, Solutions, Organized Systems and Interfaces (1)	Instrumentation and Theoretical Aspects (1)	Magnetic Materials and Molecular Complexes (1)
1A1000 Structure and Phase Transition of Perfluoro-alkane Monolayers Adsorbed on Graphite (Graduate School of Science, Osaka Univ.) ○K. Shimada, A. Inaba	1B1000 Specific Heat Capacity Measurement by DSC I - The Homogeneity Study of Single Crystalline Silicon (NMIJ, AIST) ○H. Abe, T. Baba	1C1000 Thermodynamic Study on Spin Liquid State in Dimer Mott Triangular System EtMe ₃ Sb[Pd(dmit) ₂] ₂ (^A Graduate School of Science, Osaka Univ., ^B Faculty of Science and Technology, Tokyo Univ. of Science, CRIKEN) ○ S. Yamashita ^A , T. Yamamoto ^A , Y. Nakazawa ^A , M. Tamura ^B , R. Kato ^C
1A1020 withdrew	1B1020 Examination for raising reliability of heat capacity measurement by using heat flux DSC (III) (^A Nagoya Municipal Industrial Research Institute, ^B JASRI/SPring-8) ○ K. Oda ^A , F. Takahashi ^A , I. Hatta ^B	1C1020 Heat Capacity and Magnetic Phase Transition of the Metal-Assembled Complex Cu ^{II} _{2.97} {Cu ^{II} ₄ [W ^V (CN) ₈] _{2.06} [W ^{IV} (CN) ₈] _{1.94} } · 4H ₂ O (^A Grad. Sch. Sci., Osaka Univ., ^B Inst. Nuclear Phys., Krakow, ^C Jagiellonian Univ.) ○Y. Miyazaki ^A , M. Czapla ^B , A. Budziak ^B , R. Podgajny ^C , M. Bałanda ^B , P. Zieliński ^B , B. Sieklucka ^C , T. Wasiutyński ^B , A. Inaba ^A
1A1040 Crystallization of Nematic Liquid Crystal Mixtures (^A Materials Research Lab., Hitachi, Lab., ^B Hitachi Displays, Ltd.) ○K. Araya ^A , K. Igeta ^B , M. Shimura ^B	1B1040 Micro-scale thermal analysis by a high-speed IR camera (Tokyo Institute of Technology) ○J. Morikawa, T. Hashimoto	1C1040 Heat Capacities and Magnetic Phase Transitions of the Molecule-Based Magnets TOTNN ⁺ · MCl ₄ ⁻ (M = Fe, Ga) (^A Grad. Sch. Sci., Osaka Univ., ^B Grad. Sch. Sci., Osaka City Univ.) ○ X.-Z. Lan ^A , Y. Miyazaki ^A , M. Kuratsu ^B , S. Suzuki ^B , M. Kozaki ^B , K. Okada ^B , A. Inaba ^A

11:10~12:00 Plenary Lecture (Room A)

- 1S1110** The use of calorimetry for the design of drugs that inhibit protein-protein interactions
(Dept. of Biology, The Johns Hopkins Univ.) ○A. Sch ön

12:00~13:20 Lunch

13:20~14:10 Plenary Lecture (Room A)

- 1S1320** Thermodynamic and Structure Studies of Interfaces
(Faculty of Science, Kyushu Univ.) ○M. Aratono

October 16, 2008

Room A	Room B	Room C
Liquids, Solutions, Organized Systems and Interfaces (2)	Instrumentation and Theoretical Aspects (2)	Magnetic Materials and Molecular Complexes (2)
1A1420 Inversion of the Cub-SmC phase sequence of BABH-n homologous cubic liquid crystals under pressure (^A Tokyo Polytechnic Univ., ^B Gifu Univ.) ○Y. Maeda ^A , H. Mori ^B , S. Kutsumizu ^B 1A1440 Heat Capacity and Thermal Gelation in Aqueous Solution of Methylcellulose (^A Tokyo Denki Univ., ^B Univ. of Tokyo) ○N. Onoda-Yamamuro ^A , M. Hayashi ^A , M. Naruse ^A , O. Yamamuro ^B 1A1500 The effect of additive salts on glass transition and hydrogen bond structure in 1,2-propanediamine (Naruto Univ. of Education) ○Y. Terashima, K. Takeda 1A1520 Low temperature heat capacities of ices crystallized from metastable glycerol aqueous matrices (Osaka Univ.) ○O. Camacho, A. Inaba	1B1420 Structural changes with 2D high speed X-ray detector taking simultaneous XRD-DSC measurements at several second intervals (Rigaku Corp.)○ A. Kishi, M. Sasaki, Y. Taniguchi, T. Kubo 1B1440 Thermal Radiation Calorimeter in the range 300 K to 1000 K (^A Kanazawa Institute of Technology, ^B Heatrad) ○K. Hisano ^{A,B} 1B1500 Measurements of Heat Content for Co-Cr-Mo Alloys by Drop Calorimetry (Faculty Engineering, Iwate Univ.) ○S. Fujiwara, U. Asou, K. Yamaguchi 1B1520 The development of high accuracy adiabatic calorimeter (^A Tokyo Riko Co., Ltd., ^B Tokyo Institute of Technology, ^C Tokyo Denki Univ.) ○H. Sato ^A , E. Sakai ^B , S. Iida ^A , S. Hagiwara ^{A,C}	1C1420 Heat Capacity and Magnetic Phase Transition of the Molecule-Based Magnet NNDPP ⁺ · FeBr ₄ ⁻ (^A Osaka Univ., ^B Osaka City Univ.) ○X.-Z. Lan ^A , Y. Miyazaki ^A , Y. Masuda ^B , M. Kuratsu ^B , S. Suzuki ^B , M. Kozaki ^B , K. Okada ^B , A. Inaba ^A 1C1440 Synthesis Condition Dependence of Magnetic Property of Ni(OH) ₂ Nanocluster Synthesized from Sodium Metasilicate (^A Osaka Univ., ^B Yokohama National Univ., ^C Tokyo Institute of Technology) ○T. Maruoka ^A , Y. Miyazaki ^A , Y. Ichiyanagi ^B , H. Kawaji ^C , T. Atake ^C , A. Inaba ^A 1C1500 Heat Capacity and Magnetic Phase Transition of the Organic Radical Magnet F4BImNN (^A Osaka Univ., ^B Tokyo Univ. Sci., ^C Univ. Massachusetts) ○Y. Miyazaki ^A , H. Murata ^B , A. Paduan-Filho ^C , V. Bindilatti ^C , N. F. Oliveira Jr. ^C , Z. Delen ^C , P. M. Lahti ^C , A. Inaba ^A 1C1520 Heat capacity measurement of a strongly correlated electrons system in organics with applying electric currents (Osaka Univ.) ○K. Hino, Y. Nakazawa
Liquids, Solutions, Organized Systems and Interfaces (3)	Instrumentation and Theoretical Aspects (3)	Biological Thermodynamics, Pharmaceutical Materials and Food (1)
1A1550 Measuring unfrozen water content in porous media using DSC (Graduate School of Engineering, Hokkaido Univ.) ○G. Iwahana, S. Akagawa 1A1610 Thermal Properties of Heavy Water within Nano-Pores of MCM-41 (Graduate School of Science and Engineering, Tokyo Institute of Technology) ○A. Nagoe, T. Kojima, M. Oguni 1A1630 The Ordering Behavior and the Glass Transition of the Nano-Channel Water Inside the Crystal [Ru(H ₂ bim) ₃](TMA) · 20H ₂ O (^A Tokyo Inst. Tech., ^B Tokyo Univ. Sci.) ○K. Watanabe ^A , M. Oguni ^A , C. Iida ^B , T. Suda ^B , M. Tadokoro ^B	1B1550 Heat Capacity Measurements of Liquid Samples on Relaxation Calorimeter (PPMS) (Grad. Sch. Sci., Osaka Univ.) ○H. Suzuki, O. Camacho, A. Inaba 1B1610 Heat Capacity Measurements around the Phase Transition Temperature on Relaxation Calorimeter (PPMS) (^A Osaka Univ., ^B Forschungszentrum Karlsruhe) ○H. Suzuki ^A , A. Inaba ^A , C. Meingast ^B 1B1630 Development of a MEMS device to measure thermal conductivity of submillimeter single crystals at low temperatures (^A Osaka Univ., ^B Technology Research Institute of Osaka Prefecture) ○Y. Okada ^A , M. Uno ^{A,B} , J. Takeya ^A , Y. Nakazawa ^A	1C1550 Molecular Motions in Bovine Serum Albumin - Water System (^A Tokyo Institute of Technology, ^B Hiroshima Univ.) ○H. Niwano ^A , K. Kawai ^B , M. Oguni ^A 1C1610 Characterization of multi-component frozen solutions by thermal analysis and freeze-drying microscopy (^A Toho Univ., ^B National Institute of Health Sciences) ○K. Fujii ^A , K. Izutsu ^B , C. Yomota ^B , T. Kawanishi ^B , C. Katori ^A , Y. Yoshihashi ^A , E. Yonemochi ^A , K. Terada ^A 1C1630 Effects of drying history on the survival ability and vitrification of <i>polypedilum vanderplanki</i> (^A Tokyo Institute of Technology, ^B National Institute of Agrobiological Sciences) ○T. Furuki ^A , Y. Nakahara ^B , M. Watanabe ^B , A. Fujita ^B , T. Kikawada ^B , M. Sakurai ^A , T. Okuda ^B

16:55~17:55 Poster Session I Odd Numbers

17:55~18:55
Young Member's Meeting

16:55~18:55
Senior Member's Meeting

October 17, 2008

Room A	Room B	Room C
Liquids, Solutions, Organized Systems and Interfaces (4)	Environment and Energy	Biological Thermodynamics, Pharmaceutical Materials and Food (2)
2A0920 Glass Transitions and Low-energy Excitations of Imidazolium-based Ionic Liquids (^A ISSP, Univ. of Tokyo, ^B Yokohama Nat. Univ., ^C Grad. Sch. of Sci., Univ. of Tokyo) ○ O. Yamamuro ^A , Y. Moriya ^A , T. Someya ^A , Y. Inamura ^A , M. Nakakoshi ^B , H. Hamaguchi ^C 2A0940 Thermodynamic properties and polymorphism of ionic liquid 1-ethyl-3-methylimidazolium bis(trifluoromethylsulfonyl) imide (^A Chiba Institute of Technology, ^B Tokyo Institute of Technology) ○ M. Ichikawa ^A , I. Tsukushi ^A , H. Kawaji ^B , T. Atake ^B 2A1000 Thermodynamics of Autoprotolysis in Protic Ionic Liquid, Ethylammonium Nitrate (Kyushu Univ.) ○ R. Kanzaki, X. Song, Y. Umebayashi, S. Ishiguro 2A1020 Net Interactions in Aqueous Solutions of Some 1-ethyl-3-methylimidazolium based Ionic Liquids (^A Grad. Sch. Sci. Tech., Chiba Univ., ^B Grad. Sch. Adv. Integr. Sci., Chiba Univ., ^C Aichi Univ. Educ., ^D Univ. British Columbia) H. Kato ^A , K. Nishikawa ^B , H. Murai ^C , T. Morita ^C , ○ Y. Koga ^D 2A1040 An attempt at experimental determination of a 3 rd derivative quantity of G (^A NSM, Res. Unit Biofunc. Mater., Roskilde Univ., ^B Res. Inst. Mol. Thermodyn., Osaka Univ., ^C Chem. Univ. British Columbia) P. Westh ^A , A. Inaba ^B , ○ Y. Koga ^{B,C}	2B0920 Importance of Thermodynamic Point of View in Education for Sustainable Society (Ex-Gunma Univ.) ○ K. Amaya 2B0940 CO ₂ adsorption on active carbon in the presence of H ₂ O (^A SONY Institute of Higher Education, ^B Western Kentucky Univ.) ○ R. Ozao ^A , Y. Zhang ^B , W.-P. Pan ^B 2B1000 VOC adsorption and desorption properties of wood charcoal carbonized at 800 °C (^A Kanagawa Univ., ^B AIST) ○ Y. Nishimoto ^A , T. Tsugoshi ^B 2B1020 Catalytic Effect of Water Vapor on the Thermal Decomposition of Synthetic Hydrozincate (^A Graduate School of Education, Hiroshima Univ., ^B R&D Center for Higher Education, Kyushu Univ.) N. Koga ^A , T. Tatsuoka ^A , ○ Y. Tanaka ^A , S. Yamada ^B 2B1040 Influence of Atmospheric Water Vapor on the Crystallization of Zirconia Gel (Chemistry Lab., Graduate School of Education, Hiroshima Univ.) ○ T. Tatsuoka, N. Koga	2C0920 Thermodynamic evaluation method for protein-ligand interaction by using differential scanning calorimetry and deconvolution method (Dept. of Bioengineering, Nagaoka Univ. of Technology) ○ S. Kidokoro, A. Yamamoto 2C0940 Comparison of substrate recognition by catalytic antibodies 7C8 and 6D9 (^A Kyoto Prefectural Univ., ^A Osaka Prefecture Univ., ^C Hirosaki Univ.) ○ M. Oda ^A , T. Tsumuraya ^B , M. Saito ^C , I. Fuji ^B 2C1000 Studies on the structural transition of long-chain and short-chain phospholipids mixed assemblies by DSC and fluorescence measurement (^A Kyushu Univ., ^B The Univ. of Tokushima) ○ Y. Takajo ^A , H. Matsuki ^B , M. Aratono ^A , M. Yamanaka ^A 2C1020 Gel-to-liquid crystal transition enthalpy of asymmetric chain length sphingomyelins evaluated by chain-chain van der Waals interaction energy (Okayama Univ. of Science) ○ M. Kodama, S. Yagi, A. Kuboki, S. Ohira, H. Aoki
	Metals, Inorganic Solids and Ceramics (1)	
		2C1040 A New System of Bicelles Composed with Naturally Occurring Sphingomyelin and Ganglioside GM1 in Extremely Dilute Aqueous Medium (Okayama Univ. of Science) ○ H. Aoki, M. Fukuike, M. Kodama

11:00~12:00 Poster Session II Even Numbers

12:00~13:10 Lunch

13:10~13:50 Plenary Lecture (Room A)

2S1310 The Role of IACT in Promoting Thermodynamics

(Secretary, International Association of Chemical Thermodynamics) ○ J. H. Dymond

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Room A	Room B	Room C
Mini Symposium	Metals, Inorganic Solids and Ceramics (2)	Magnetic Materials and Molecular Complexes (3)
2MS1355 Recent Development of Nonequilibrium Statistical Physics (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) ○K. Miyazaki	2B1400 Thermally optimized design of a twin calorimeter with isothermal control for higher accuracy and its uncertainty analyses (AIST) ○K. Amemiya, T. Inoue, D. Fukuda, T. Zama	2C1400 Heat Capacities and Phase Transitions of Proton Conductive Copper Rubeanate Hydrates (^A Univ. of Tokyo, ^B Kyushu Univ., ^C JST-CREST) ○T. Yamada ^{A,C} , R. Yonamine ^A , T. Yamada ^{B,C} , H. Kitagawa ^{B,C} , O. Yamamuro ^{A,C}
2MS1425 Education of the Thermodynamic Concepts as a Civic Science Literacy ○T. Takizawa	2B1420 Thermal Oxidation of TiN-AlN composite films prepared by thermal plasma CVD (Graduate School of Engineering, Hokkaido Univ.) ○S. Shimada, Y. Terao	2C1420 Heat Capacities and Phase Transitions of Clathrate Compounds $[N(CH_3)_4][MCu(CN)_4] \cdot X$ ($M=Zn, Cd$, $X=H_2CCl_2, HCCL_3$) (^A ISSP, Univ. of Tokyo, ^B Grad. Sch. of Arts and Sci., Univ. of Tokyo) ○S. Aso ^A , T. Yamada ^A , Y. Minamimoto ^B , H. Dan ^B , S. Nishikiori ^B , O. Yamamuro ^A
2MS1455 Current Status and Future Perspective for Chemical Thermodynamics - Utilization of Thermodynamics in Material Processing - (Faculty Engineering, Iwate Univ.) ○K. Yamaguchi	2B1440 Electric and magnetic properties and low temperature heat capacity of $TbFe_xMn_{1-x}O_3$ (Tokyo Institute of Technology) ○K. Saito, H. Kawaji, T. Atake 2B1500 Thermodynamic and kinetic stability of wide gap p-type conducting oxides (Nihon Univ.) ○Y. Kumekawa, M. Hirai, Y. Kobayashi, S. Endoh, E. Oikawa, T. Hashimoto	2C1440 Heat capacity in low temperature of (BEDT-TTF)(TCNQ) (Osaka Univ.) ○ Y. Iwasaki, T. Yamamoto, Y. Nakazawa 2C1500 Heat capacity measurements of organic superconductors under pressures (Osaka Univ.) ○N. Tokoro, O. Kubota, S. Yamashita, Y. Nakazawa
	Metals, Inorganic Solids and Ceramics (3)	Polymers and Organic Materials (1)
2MS1535 What does calorimetry find out in living organisms? (Res. Ctr. Mol. Thermodyn., Grad. Sch. Sci., Osaka Univ.) ○Y. Nagano	2B1530 Formation of Nano-crystalline Thin Films of $BaTiO_3$ by RF Magnetron Sputtering (Gunma Univ.) ○M. Hanaya, T. Kyomen, Y. Matsumoto	2C1530 Synergistic effect of polysaccharide blends studied by DSC and AFM (^A Lignocel Research, ^B Nagasaki Univ., ^C Fukui Univ. Technol.) ○ T. Hatakeyama ^A , M. Iijima ^B , T. Onishi ^C , H. Hatakeyama ^C
2MS1605 Present Status and Prospect of JSCTA (President of JSCTA, Osaka Univ.) ○A. Inaba	2B1550 Metal-Insulator Transition and Heat Capacity of $BaTiO_{3-d}$ (^A Tokyo Institute of Technology, ^B NIMS) ○K. Takada ^A , T. Kolodiaznyi ^B , M. Tachibana ^B , Y. Kohama ^A , H. Kawaji ^A , T. Atake ^A	2C1550 Effects of cyclodextrin on thermal stability of lysozyme (Kinki Univ.) ○T. Kamiyama, T. Nojiri, H. Liu, T. Kimura
2MS1630 Thermodynamics in the 21st Century and ICCT-2010 (Mater. and Struct. Lab., Tokyo Inst. of Technol.) ○T. Atake	2B1610 Heat capacity of $PbZn_{1/3}Nb_{2/3}O_3$ - $PbTiO_3$ solid solutions and phase transition properties (^A Tokyo Institute of Technology, ^B NIMS) ○K. Sasame ^A , M. Tachibana ^B , H. Kawaji ^A , T. Atake ^A 2B1630 Heat capacity of solid solutions, $PbZrO_3$ - $PbTiO_3$ and $Pb(Mg_{1/3}Nb_{2/3})O_3$ - $PbTiO_3$ (^A Tokyo Institute of Technology, ^B NIMS, ^C The Univ. of Tokyo) ○T. Yoshida ^A , J. Yamazaki ^A , M. Tachibana ^B , Y. Moriya ^C , H. Kawaji ^A , T. Atake ^A	2C1610 Characterization of Thermal Decomposition of Polymers by Evolved Gas Analysis using Photoionization Mass Spectrometry, EGA-PIMS : Part-II (RIGAKU Corp.) ○K. Motomura, S. Otake, T. Arii 2C1630 Thermal change of organic light-emitting Alq ₃ , Tris(8-hydroxyquinolinato) aluminum(III) thin film (^A Tokyo Polytechnic Univ., ^B Rigaku Corp., ^C Chinese Academy of Science) ○M. Wang ^A , T. Konya ^B , M. Yahata ^A , K. Motomura ^B , T. Kondo ^A , Y. Seki ^A , H. Lei ^A , T. Uchida ^A , Y. Hoshi ^A , T. Arii ^B , A. Kishi ^B , Y. Sawada ^A , L. Sun ^C

16:55~17:55 JSCTA the 34th Annual General Meeting (Room A)

18:00~20:00 Conference Dinner

October 18, 2008

Room A

Room B

Room C

9:20～10:10 JSCTA Award Lecture (Room A)

- AW01** Thermal Studies on Structural Relaxation and Ordering in Disordered Molecular-Arrangement Systems
(Graduate School of Science and Engineering, Tokyo Institute of Technology) ○M. Oguni

10:10～11:00 JSCTA Award Lecture (Room A)

- AW02** Microcalorimetric study on the molecular recognition in solutions
(Dept. of Chemistry, Kinki Univ.) ○T. Kimura

11:10～11:40 JSCTA Research Encouragement Award Lecture (Room A)

- AW03** Exploration of novel electronic and magnetic phase diagram in transition metal oxides by
heat capacity measurements
(National Institute for Materials Science) ○M. Tachibana

11:40～12:10 JSCTA Research Encouragement Award Lecture (Room A)

- AW04** Thermal properties of polysaccharide physical hydrogels
(Nagasaki Univ.) ○M. Iijima

12:10～13:20 Lunch

Room A	Room B	Room C
Liquids, Solutions, Organized Systems and Interfaces (5)	Metals, Inorganic Solids and Ceramics (4)	Polymers and Organic Materials (2)
3A1320 The crystal-liquid phase diagrams and mixing heats of binary solutions of water/alcohol solutions (Graduate School of Engineering, Gunma Univ.) ○ A. Takei, T. Seki, K. Yoshioka, M. Naoki 3A1340 Urea-H ₂ O System Revisited: A Differential Approach in Solution Thermodynamics (^A Chem., Univ. British Columbia, ^B Res. Inst. Mol. Thermodyn., Osaka Univ.) ○ Y. Koga ^{A,B} , Y. Miyazaki ^B , Y. Nagano ^B , A. Inaba ^B 3A1400 The crystal-liquid phase diagrams and mixing heats of binary alcohol solutions (Graduate School of Engineering, Gunma Univ.) ○ A. Konishi, T. Seki, K. Yoshioka, M. Naoki 3A1420 Enthalpic discrimination of chiral limonenes in hexane solution (Dept. of Chemistry, Kinki Univ.) ○ S. Kido, T. Kamiyama, T. Kimura 3A1440 Thermodynamic study on <i>o</i> -, <i>m</i> - and <i>p</i> -isomers at 298.15 K (Dept. of Chemistry, Kinki Univ.) ○ H. L. Liu, T. Kamiyama, M. Fujisawa, T. Kimura 3A1500 Enthalpies of solution of polyvinylpyrrolidone into 1-methyl-2-pyrrolidone and water and alkanols (<i>n</i> =1~4) (^A Graduate School of Advanced Science and Technology, Tokyo Denki Univ., ^B School of Science and Engineering, Tokyo Denki Univ.) ○ T. Sugiura ^A , H. Ogawa ^B	3B1320 Analysis of crystal structure and phase transitions of BaCe _{1-x} Y _x O _{3-δ} (Dept. of Integrated Sciences in Physics and Biology, CHS, Nihon Univ.) ○ M. Shimizu, S. Hasegawa, T. Ohzeki, T. Hashimoto 3B1340 Analysis of crystal structure and phase transitions of Ba _{1-x} Sr _x CeO ₃ (Dept. of Integrated Sciences in Physics and Biology, CHS, Nihon Univ.) ○ S. Hasegawa, M. Shimizu, T. Ohzeki, T. Hashimoto 3B1400 Valence state and positional off-centering of cerium ions in Ce _x Eu _{1-x} CoO ₃ crystal (^A Tokyo Institute of Technology, ^B Faculty of Science, Niigata Univ.) ○ S. Ramos ^A , M. Oguni ^A , Y. Masuda ^B 3B1420 Low-Temperature Heat Capacity and Boson Peak of Lithium Borate Binary Glasses (^A Univ. of Trukuba, ^B Tokyo Institute of Technology) ○ Y. Matsuda ^A , Y. Fukawa ^A , M. Kawashima ^A , S. Kojima ^A , Y. Yamamura ^A , S. Yasuzuka ^A , K. Saito ^A , H. Kawai ^B , T. Atake ^B 3B1440 Low temperature heat capacity of rapid quenched and annealed glassy alloy, Zr _{0.55} Al _{0.10} Ni _{0.05} Cu _{0.30} (^A Mater. Struct. Lab., Tokyo Inst. Technol., ^B Dept. Chem. Sys. Eng., Univ. of Tokyo, ^C Inst. Mater. Res., Tohoku Univ.) ○ A. Uchida ^A , T. Yoshida ^A , Y. Moriya ^B , H. Kawaji ^A , T. Atake ^A , M. Fukuhara ^C , H. Kimura ^C , A. Inoue ^C	3C1320 PEO melting in confined nano-space (Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.) ○ T. Shiraishi, H. Yoshida 3C1340 Total Thermal Analysis of Synthetic Fibers (3) The Peculiarity of Polymer Crystals Observed from Their Melting Behavior (^A Fukui Univ., ^B Nihon Thermal Consulting Inc., ^C Toray Research Center Inc.) ○ M. Todoki ^{A,B} , T. Hosoi ^C 3C1400 Complex heat capacity of the n-alkane crystals in the rotator phase (Div. of Macromolecular Science and Engineering, Kyoto Institute of Technology) Y. Shimada, H. Yao, ○ Y. Saruyama 3C1420 Thermal Properties of Planar Modification of Oxaalkane Derivatives (Graduate School of Science, Hiroshima Univ.) ○ K. Fukuhara, Y. Hokamoto, T. Nakamura, T. Ebata 3C1440 Phase Behavior and Crystal Statutes of Phosphoric Acid Diphenyl Ester (^A Tokyo Institute of Technology, ^B Kobe Univ., ^C Ochanomizu Univ.) ○ K. Ueda ^A , C. Morikawa ^A , M. Oguni ^A , K. Eda ^B , Y. Mori ^C , Y. Fukuda ^C 3C1500 Phase Behavior and Heat Capacity of Liquid Crystalline Material 6O2OCB (^A Graduate School of Science, Osaka Univ., ^B Institute of Nuclear Physics PAN, Krakow) P. M. Zieliński ^{A,B} , ○ A. Inaba ^A , H. Suzuki ^A , J. Ścieśniński ^B , M. Massalska-Arodź ^B

Poster Session

- P01** Thermal effusivity measurements under cooling state using a thermoreflectance technique (^AMaterial Science Group, Research Dept. NISSAN ARC, LTD., ^BHudson Lab., Bethel Co., Ltd.) ○T. Okamura^A, T. Goto^A, Y. Miyata^A, T. Awatani^A, J. Ye^A, T. Otsuki^B, G. Matsui^B
- P02** Development of measurement technique of thermophysical property in thin film using periodic heating method (Ulvac-Riko, Inc.) ○S. Ikeuchi, K. Shimada
- P03** Evaluation of graded materials by distribution measurement instrument of thermal property using thermal probe (^AUlvac-Riko, Inc., ^BAIST) ○M. Yoshiizumi^A, S. Ikeuchi^A, K. Shimada^A, Y. Takasaki^A, Y. Ishii^A, A. Yamamoto^B
- P04** Fish-eye Evaluation for Polymer Film by Nano-Thermal Analysis (Nihon Thermal Consulting Co.) ○N. Urayama
- P05** Mass and Thermal Analysis with Cantilever type Chip-Calorimeter (Meiji Univ.) ○Y. Miyagawa, T. Sugimoto, O. Nakabeppeu
- P06** Bio Calorimetry with MEMS thermopile sensor (Meiji Univ.) ○M. Yamamoto, O. Nakabeppeu
- P07** Development of an Ultra High Pressure AC Calorimeter for Measuring Heat Capacity of Protein (Kyoto Institute of Technology) ○M. Wada, Y. Saruyama, H. Yao
- P08** Development of a New Sensor for TG-DTA Recorded as the Macro DTA and the Micro DTA (PerkinElmer Japan Co., Ltd.) ○T. Suzuki, T. Tsujii, K. Okada, T. Ito, N. Niiya
- P09** Thermal decomposition of NH₄H₂PO₄ by EGA-EI/PIMS (^AThermal Analysis Application Lab., RIGAKU Corp., ^BSBU Thermal Analysis Group, RIGAKU Corp.) ○S. Yamaguchi^A, Y. Masuda^A, T. Arii^B
- P10** Application to DSC using the high-pressure crucible for purity determination of semi-volatile environmental pollutants (NMIJ/AIST) ○N. Hanari, R. Iwasawa, S. Otsuka, N. Fujiki, K. Ishikawa, T. Yarita
- P11** Thermal properties of ionic liquid (bmim)PF₆ - Measurement with an adiabatic calorimeter using cryo-refrigerator (Faculty of Sci., Fukuoka Univ.) ○K. Negita, H. Nakashima, K. Sekine
- P12** Development of an Ultramicro Cell for adiabatic Calorimeter (Graduate School of Science, Osaka Univ.) ○S. Arai, Y. Miyazaki, A. Inaba
- P13** Growth of La_{1-x}Sr_xCoO₃ single crystals and their magnetic properties (Graduate School of Engineering, Gunma Univ.) ○T. Kyomen, Y. Murachi, M. Hanaya
- P14** Synthesis Condition Dependence of Magnetic Property of Ni(OH)₂ Nanocluster Synthesized from Sodium Orthosilicate (^AGraduate School of Science, Osaka Univ., ^BDept. of Physics, Yokohama National Univ., ^CMaterials and Structures Lab., Tokyo Institute of Technology) ○T. Maruoka^A, Y. Miyazaki^A, Y. Ichiyanagi^B, H. Kawaji^C, T. Atake^C, A. Inaba^A
- P15** Heat Capacity and Magnetic Phase Transition of the Molecule-Based Magnet DOT^{·+} · GaCl₄⁻ (^AGrad. Sch. Sci., Osaka Univ., ^BGrad. Sch. Sci., Osaka City Univ.) ○X.-Z. Lan^A, Y. Miyazaki^A, M. Kuratsu^B, S. Suzuki^B, M. Kozaki^B, K. Okada^B, A. Inaba^A
- P16** Heat Capacity and Magnetic Phase Transition of the Molecule-Based Magnet TOT^{·+} · FeBr₄⁻ (^AGrad. Sch. Sci., Osaka Univ., ^BGrad. Sch. Sci., Osaka City Univ.) ○X.-Z. Lan^A, Y. Miyazaki^A, M. Kuratsu^B, S. Suzuki^B, M. Kozaki^B, K. Okada^B, A. Inaba^A
- P17** Deuteration-induced Phase Transition in Bromodeuteroxyphenalenone Cryatal : The Dipole-dipole Interaction Mechanism (Graduate School of Science, Osaka Univ.) ○T. Matsuo
- P18** Alkyl-chain length dependence of thermodynamic properties of ionic liquid [C_nmim][Tf₂N] (^AAIST, ^BUniv. of Tsukuba) ○Y. Shimizu^{A,B}, Y. Ohte^A, Y. Yamamura^B, K. Saito^B
- P19** Thermodynamic properties of inclusion of deoxycholic acid with alkyl alcohols (Dept. of Chem., Kinki Univ.) ○C. Seki, T. Kamiyama, T. Kimura
- P20** Thermophysical Properties about Protein and Bioprotectant (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) ○E. Hashimoto, K. Sasanuma, Y. Seshimo, Y. Aoki, H. Kanazawa, Y. Ike, S. Kojima
- P21** Excess enthalpy and excess volume of benzene + cyclohexane mixture at high temperature and high pressure (^AGraduate School of Science and Engineering, Tokyo Denki Univ., ^BSchool of Science and Engineering, Tokyo Denki Univ.) ○Y. Sugawara^A, F. Kimura^B, H. Ogawa^B
- P22** Excess molar volumes and isentropic compressibilities of ringed fluorine organic liquid + alcohols (^AGraduate School of Science and Engineering, Tokyo Denki Univ., ^BSchool of Science and Engineering, Tokyo Denki Univ., ^CSharp Manufacturing Systems Co.) ○K. Asahi^A, H. Kimura^B, T. Minamihounoki^C, H. Ogawa^B
- P23** Calorimetric study of lower alcohols adsorbed on activated carbon fiber (School of Science and Engineering, Tokyo Denki Univ.) ○S. Nobusawa, M. Ruike
- P24** Temperature dependence of inclusion mechanism for Cyclodextrin in dilute aqueous solutions (^ADept. of Chem., Kinki Univ., ^BGrad. School of Life and Environmental Science, Osaka Prefecture Univ.) ○T. Yukiyama^{A,B}, S. Kitamura^B, T. Kimura^A

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- P25** Associated state of butanols+butylamines (Dept. of Chem., Kinki Univ.) ○A. Soga, T. Kamiyama, M. Fujisawa, T. Kimura
- P26** Enthalpy and entropy changes on molecular inclusion of halogenated butane into α -cyclodextrin cavity in aqueous solutions (^ADept. of Chem., Kinki Univ., ^BGrad. School of Life and Environmental Science, Osaka Prefecture Univ.) ○S. Fujie^A, T. Yukiyama^B, M. Fujisawa^A, T. Kamiyama^A, T. Kimura^A
- P27** Excess Enthalpies of Sulfoxides + Second Aliphatic Alcohols at 298.15 K (^ADept. of Chem., Kinki Univ., ^BDept. of Biotech. Sci., Kinki Univ.) ○T. Kimura^A, H. Nakanishi^A, T. Yabugami^A, T. Kamiyama^A, M. Fujisawa^B
- P28** Excess molar enthalpies for *S*- and *R*- fenchone in ethanol solutions (Dept. of Chemistry, Kinki Univ.) ○H. L. Liu, T. Kamiyama, M. Fujisawa, S. Kido, T. Kimura
- P29** Dielectric relaxation of LiTFSI contained within a molecular matrix (Tokyo Institute of Technology) ○H. Hirowatari, S. L. Ramos, M. Oguni
- P30** Low temperature heat capacities of tricyclohexylmethanol and dicyclohexylmethanol (Univ. of Tsukuba) ○Y. Suzuki, Y. Yamamura, S. Yasuzuka, K. Saito
- P31** Thermal behavior of aluminum titanate at high temperature (Graduate School of Integrated Basic Sciences, Nihon Univ.) ○Y. Nakamura, H. Fujimori
- P32** Thermodynamic approach in a design for negative thermal expansion compounds (Univ. of Tsukuba) ○Y. Yamamura, S. Ikeuchi, K. Saito
- P33** Thermodynamic study on hydrolysis of α - or β -tricalcium bis (orthophosphate) in the presence of fluoride ions (^ADept. of Chemistry, Osaka Sangyo Univ., ^BISIR, Osaka Univ., ^CFaculty of Science and Technology, Kinki Univ.) ○K. Sakamoto^A, I. Fujihara^A, K. Satoh^A, S. Yamaguchi^B, T. Kimura^C
- P34** Composition Dependence of Fragility of Lithium Borate Glasses Studied by Modulated-Temperature DSC (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) ○Y. Fukawa, Y. Matsuda, M. Kawashima, S. Kojima
- P35** The Glass Transition and Non-Debye Nature of Alkali Borate Glasses Studied by Modulated-Temperature DSC (Graduate School of Pure and Applied Sciences, Univ. of Tsukuba) ○M. Kawashima, Y. Matsuda, Y. Fukawa, S. Kojima
- P36** Thermal transition intermediate of lysozyme-inhibitor complex (Dept. of Bioengineering, Nagaoka Univ. of Technology) ○A. Yamamoto, S. Kidokoro
- P37** Investigation of solvent-mediated transformation of crystal forms on DSC (National Institute for Materials Science, Biomaterials Center) ○K. Kawakami
- P38** The evaluation of oxidation for oils, fats and processed food (SII NanoTechnology Inc.) ○Y. Nishiyama, Y. Kasai, Y. Ichimura
- P39** Existence of L_X Phase in DC11PC (Kyoto Institute of Technology) ○F. Okazaki, Y. Saruyama, H. Yao
- P40** Structural Analysis to the Nucleating Effect of Biodegradable and Crystalline Fluorinated Polymers (^AFaculty of Engineering, Yamagata Univ., ^BGraduate School of Science and Engineering, Yamagata Univ.) ○O. Isawa^A, S. Yamana^A, A. Fujimori^B
- P41** Phase transition with conformational change in 1,3-dithiole-2-thione-4,5-dialkyldithiolate (^AUniv. of Tsukuba, ^BTokyo Univ. of Science) ○H. Koga^A, S. Yasuzuka^A, Y. Yamamura^A, E. Tomiyama^B, K. Miyamura^B, K. Saito^A
- P42** Phase transition of monolayer and multilayer of Primary Amines having long alkyl chain (Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.) ○E. Kishimoto, H. Yoshida
- P43** Thermodynamic study on melting process of alkylbiphenyl and its related compounds (Univ. of Tsukuba) ○K. Horiuchi, Y. Yamamura, S. Yasuzuka, K. Saito
- P44** Water State Analysis in Methylcellulose Hydrogel Containing Polyethylene Oxide (^AKanagawa Univ., ^BTA Instruments) Y. Nishimoto^A, ○Y. Iitaka^A, K. Atsuta^A, I. Takenoshita^B, T. Aikawa^B
- P45** Thermogravimetry and Molecular Mass of Aromatic Oligoamides (National Defense Academy, Applied Chemistry) N. Warashina, M. Tsuchiya, ○T. Kojima
- P46** Size effect of silica nanoparticles on thermal decomposition of polymethacrylate esters (Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.) ○D. Zou, H. Yoshida
- P47** Thermal degradation behavior on high-polymer materials with Thermo gravimeter (Chubu Univ.) ○T. Mizuno, E. Nakashima, Y. Murasawa, M. Yukumoto, K. Takeda
- P48** Rigid amorphous fraction and mechanical property for iPP (^AFaculty of Engineering, Musashi Institute of Technology, ^BFaculty of Knowledge Engineering, Musashi Institute of Technology, ^CSunAllomer Ltd.) ○S. Sakai^A, T. Sato^A, K. Yamada^C, M. Iijima^B, K. Takagi^A, S. Oya^A
- P49** Phase Transition of Au Doped Amphiphilic Di-block Copolymer Thin Film (Graduate School of Urban Environmental Science, Tokyo Metropolitan Univ.) ○Y. Kudo, K. Takahashi, J. Morohashi, H. Yoshida

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- P50** The dynamic heat capacity and the mechanical property for chloroprene rubber with carbon black (^AFaculty of Engineering, Musashi Institute of Technology, ^BFaculty of Knowledge Engineering, Musasahi Institute of Technology)
○R. Sugimoto^A, A. Nakano^A, M. Iijima^B, K. Takagi^A, M. Minagawa^A
- P51** Analysis for thermal degradation of rubber by dielectric relaxation measurement (^AFaculty of Engineering, Musashi Institute of Technology, ^BFaculty of Knowledge Engineering, Musasahi Institute of Technology) ○H. Kuwahara^A, S. Sudo^B, M. Iijima^B, S. Ooya^A
- P52** Higher-order structure and thermal property of Poly (L-lactic acid) (Graduate School of Science and Engineering, Tokyo Institute of Technology) ○Y. Yano, J. Morikawa, T. Hashimoto
- P53** FTIR imaging of orientation function of polymer chain in fiber-reinforced polyethylene (Tokyo Institute of Technology)
○Y. Hikima, J. Morikawa, T. Hashimoto
- P54** Thermomechanical analysis of super fiber (Shimadzu Corp.) ○M. Ohta, A. Naganishi
- P55** Thermal diffusivity of polymers at a low temperaturre (Dept. of Organic and Polymeric Materials, Tokyo Institute of Technology) ○Y. Yoshihara, J. Morikawa, T. Hashimoto
- P56** Measurement of thermal diffusivity of polymeric thermal insulation materials by temperature wave analysis (Graduate School of Science and Engineering, Tokyo Institute of Technology) ○S. Sano, J. Morikawa, T. Hashimoto
- P57** Excess Heat Capacity at Low Temperature Induced by Partial Deuteration of Methyl Groups in 2,6-Dichlorotoluene (Grad. Sch. Sci., Osaka Univ.) ○H. Suzuki, A. Inaba, Y. Matsuo, T. Oishi, M. Murata
- P58** Stabilization processes of meta-stable crystalline phases in 2,5-dichlorothiophene (Graduate School of Integrated Basic Sciences, Nihon Univ.) ○N. Tanimoto, H. Fujimori
- P59** An investigation on measurement accuracy of specific heat capacity using a heat-flux differential scanning calorimeter - In the case of rutile, copper, molybdenum and silver disk specimens - (Fukuoka Univ.) ○J. Fujino, T. Honda
- P60** Thermal Properties of Ma-g-Engage® (ethylene/octene copolymer)/M-MMT Nanocomposites (^ASONY Institute of Higher Education, ^BInstitute for Combustion Science and Environmental Technology, Western Kentucky Univ.)
○R. Ozao^A, G. Latta^B, W.-P. Pan^B
- P61** Many-body interactions of chiral solutions (^ADept. of Biotechnological Science, Kinki Univ., ^BDept. of Chemistry, Kinki Univ.) ○M. Fujisawa^A, T. Kimura^B
- P62** Optical Techniques Combined with Differential Scanning Calorimetry (^AMettler-Toledo GmbH, ^BMettler-Toledo K.K.) ○M. Schubnell^A, M. Hattori^B, K. Takahashi^B, J. Sawada^B
- P63** Stochastic Temperature Modulated DSC Technique and Its Use with Adhesives (^AMettler-Toledo GmbH, ^BMettler-Toledo K.K.) ○M. Schubnell^A, M. Hattori^B, K. Takahashi^B, J. Sawada^B