

The 45th Japanese Conference on Calorimetry and Thermal Analysis
 Dates: September 28 - 30, 2009 Place: Tokyo Metropolitan University

September 28			September 29			September 29			September 30		
Room A	Room B	Room C	Room A	Room B	Room C	Room A	Room B	Room C	Room A	Room B	Room C
10:00~11:00 Organic Materials and Polymers (1)	10:00~11:00 Solutions and Liquids (1)	10:00~11:00 Instrumentation and Theoretical Aspects (1)	9:40~10:50 Symposium Sustainable Materials and Energy (1)	9:40~11:00 Magnetic Materials and Molecular Complexes (1)	9:40~11:00 Biological Thermodynamics, Pharmaceutical Materials and Foods (1)	9:30~11:20 Symposium Nano-materials and Nano-calorimetry (1)	9:30~11:10 Solutions and Liquids (4)	9:30~11:10 Metals and Inorganic Solids (1)			
11:10~12:00 Plenary Lecture 1S1110 (Room A)			11:10~12:00 Plenary Lecture 2S1110 (Room A)			11:30~12:00 JSCTA Research Encouragement Award Lecture AW1 (Room A)					
12:00~13:20 Lunch			12:00~13:20 Lunch			12:00~13:20 Lunch					
13:20~15:00 Poster Session I (Odd Numbers)			13:20~15:00 Poster Session II (Even Numbers)			13:20~14:10 Plenary Lecture 3S1320 (Room A)					
15:20~16:20 Organic Materials and Polymers (2)	15:20~16:20 Solutions and Liquids (2)	15:20~16:20 Instrumentation and Theoretical Aspects (2)	15:20~16:40 Symposium Sustainable Materials and Energy (2)	15:20~16:40 Magnetic Materials and Molecular Complexes (2)	15:20~16:40 Biological Thermodynamics, Pharmaceutical Materials and Foods (2)	14:20~15:40 Symposium Nano-materials and Nano-calorimetry (2)					
16:30~17:50 Organic Materials and Polymers (3)	16:30~17:50 Solutions and Liquids (3)	16:30~17:50 Mini Symposium Thermal Analysis and Calorimetry in Industry	16:50~17:50 JSCTA the 36th Annual General Meeting (Room A)								
18:00~18:55 Young Member's Meeting (the 8 pavilion, 1F)			18:30~20:30 Conference Dinner								

September 28, 2009

Room A	Room B	Room C
Organic Materials and Polymers (1)	Solutions and Liquids (1)	Instrumentation and Theoretical Aspects (1)
1A1000 Total Thermal Analysis of Synthetic Fibers (4 - The Peculiarity of Polymer Crystals Observed from Their Melting Behavior II -) (^A Nihon Thermal Consulting Inc., ^B Toray Research Center Inc.) ○M. Todoki ^A , T. Hosoi ^B	1B1000 Low Temperature Heat Capacity of Ionic Liquid [bmp][Tf ₂ N] (^A NMJJ/AIST, ^B Univ. of Tsukuba, ^C RICS/AIST) ○Y. Shimizu ^A , Y. Ohte ^A , Y. Yamamura ^B , S. Tsuzuki ^C , K. Saito ^B	1C1000 Enthalpy of mixing, of binary mixtures containing hexane, cyclohexane, benzene at high temperature and high pressure (^A Graduate School of Science and Engineering, Tokyo Denki Univ., ^B School of Science and Engineering, Tokyo Denki Univ.) ○Y. Sugawara ^A , F. Kimura ^B , H. Ogawa ^B
1A1020 Micro-scale thermal diffusivity measurement with thermal wave by thermo-electric linear sensor array (Tokyo Institute of Technology) ○A. Orie, J. Morikawa, T. Hashimoto	1B1020 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	1C1020 Development of Temperature Modulated Dielectric Spectroscopy and its Application to the Glass Transition (Kyoto Institute of Technology) H. Harada, H. Yao, ○Y. Saruyama
1A1040 Development of Skimmer Type Interface TG-DTA-Photoionization Mass Spectrometry, PIMS (Rigaku Corp.) ○K. Motomura, Y. Amagasa, T. Arii	1B1040 Gelation and dielectric dispersion measurement of 12-hydroxystearic acid solution (Gunma Univ.) ○A. Takei, T. Mochizuki, K. Yoshioka, S. Kondo, H. Takeno	1C1040 Development of Specific Heat Capacity Reference Material by Adiabatic Calorimeter (NMJJ, AIST) ○H. Abe, H. Kato, T. Baba

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

1S1110 Nanoscale Thermal Analysis (^AAnasys Instruments Inc., ^BUniv. of Illinois at Urbana-Champaign)
○K. Kjoller^A, K. Sahagian^A, C. Prater^A, W. King^B

12:00~13:20 Lunch

13:20~15:00 Poster Session I Odd Numbers

September 28, 2009

Room A	Room B	Room C
Organic Materials and Polymers (2)	Solutions and Liquids (2)	Instrumentation and Theoretical Aspects (2)
1A1520 Thermodynamics of Crystals and Glass in Polyethylene lamella (Gunma Univ.) ○N. Tanaka 1A1540 Gelation mechanism of methylcellulose by DSC (^A Nagasaki Univ., ^B Lignocel Research, ^C Fukui Univ. of Technology) ○ M. Iijima ^A , T. Hatakeyama ^B , H. Hatakeyama ^C 1A1600 Meling behavior of oxaalkanols and oxaalkanoic acids (Hiroshima Univ.) ○ K. Fukuhara, T. Nakamura, K. Murakami, T. Ebata	1B1520 Excess Partial Molar Absorptivity in Near Infrared Spectra: An Additional Insight into the Mixing Schemes in Aqueous Acetonitrile and Acetone (^A The Univ. of British Columbia, ^B Chiba Univ., ^C Hiroshima Univ., ^D PRESTO) ○ Y. Koga ^A , F. Sebe ^B , T. Minami ^B , K. Otake ^B , K. Saitow ^{C,D} , K. Nishikawa ^B 1B1540 Experimental Determination of Third Derivative of G (II): Differential Pressure Perturbation Calorimetry (^A The Univ. of British Columbia, ^B Roskilde Univ., ^C Osaka Univ., ^D Chiba Univ.) ○ Y. Koga ^A , P. Westh ^B , A. Inaba ^C , K. Sou ^D , K. Tozaki ^D 1B1600 Hydrophobicity/Hydrophilicity of 1-Butyl-2,3-dimethyl and 1-Ethyl-3-methylimidazolium Ions: Towards Characterization of Room Temperature Ionic Liquids (^A Chiba Univ., ^B Nihon Univ., ^C Keio Univ., ^D The Univ. of British Columbia) H. Kato ^A , K. Miki ^{A,B} , T. Mukai ^{A,C} , K. Nishikawa ^A , ○Y. Koga ^D	1C1520 New Melting Point Systems (^A Mettler Toledo K.K., ^B Mettler Toledo AG) ○ J. Sawada ^A , T. Usui ^A , M. Wagner ^B , R. Riesen ^B 1C1540 Two-dimensional micro-scale thermal analysis and modulated spot heating with a high-speed infrared camera (Tokyo Institute of Technology) ○J. Morikawa, T. Hashimoto
Organic Materials and Polymers (3)	Solutions and Liquids (3)	Mini Symposium Thermal Analysis and Calorimetry in Industry
1A1630 Phase Behavior and Heat Capacity of Liquid Crystalline Material BBOA (^A Osaka Univ., ^B The H. Niewodniczski Instytute of Nuclear Phisics) ○E. Juszy ska ^{A,B} , D. Takajo ^A , A. Inaba ^A , M. Jasiurkowska ^B , M. Massalska-Arod ^B 1A1650 Phase transition of 4'-alkyl-4-iso thiocyanatobiphenyl (nBT) under pressure (^A Tokyo Polytechnic Univ., ^B Jagiellonian Univ.) ○Y. Maeda ^A , S. Urban ^B 1A1710 Orientational Disorder Introduced by Partial Deuteration of Methyl Groups in Solid Toluene and Its Ordering (Osaka Univ.) ○H. Suzuki, A. Inaba	1B1630 Thermodynamic properties for binary mixtures o- / m- / p-isomers: III (Kinki Univ.) ○H. Liu, T. Kamiyama, S. Kido, M. Fujisawa, T. Kimura 1B1650 Excess enthalpies of chiral limonene in polar solution (Kinki Univ.) ○ S. Kido, H. Liu, T. Kamiyama, M. Fujisawa, T. Kimura	1MS1630 Application of thermogravimetry-mass spectrometry and thermogravimetry-infrared spectroscopy for the analysis of organic powders in cosmetic products (Shiseido Research Center) ○E. Nakamura, N. Yoshikawa, M. Hayashi 1MS1650 The method for determining thermal history of polymer (PBT, PA6) with DSC (^A Sumitomo Wiring Systems, Ltd., ^B Tokyo Metropolitan Univ.) ○N. Manabe ^A , H. Minami ^A , M. Ishikawa ^A , H. Yoshida ^B 1MS1710 Deterioration Behavior of Crosslinked Polyethylene Pipe for Hot-water (^A PerkinElmer Japan, ^B Osaka Gas, ^C Kyoto Institute of Technology) ○T. Tsujii ^A , T. Suzuki ^A , K. Okada ^A , T. Seko ^A , K. Igawa ^B , H. Nishimura ^B , H. Hamada ^C , Y. Fujii ^C
1A1730 Orientational Disorder Introduced by Partial Deuteration of Methyl Groups in Solid 2,6-dibromotoluene and Its Ordering (Osaka Univ.) ○K. Yoshida, H. Suzuki, A. Inaba, M. Yamamoto, T. Oishi, M. Murata	1B1710 Hydration characteristics of surrounding ions in aqueous solution of sodium acetate by 1P-Probing Methodology (^A Osaka Univ., ^B The Univ. of British Columbia) ○T. Kondo ^A , Y. Miyazaki ^A , A. Inaba ^A , Y. Koga ^B 1B1730 The affinity of cold shock protein homologue from extreme thermophile to oligothymidine and its temperature dependence (Nagaoka Univ. of Technology) ○R. Satoh, S. Kidokoro	1MS1730 DSC of solders solidification behavior and fluctuation of bonding strength (Panasonic Mobile Communications Co., Ltd.) ○M. Yasui, A. Nakagawa, Y. Saitou, M. Fukuyama, Y. Miyamoto
18:00～18:55 Young Member's Meeting	(3)	

September 29, 2009

Room A	Room B	Room C
Symposium Sustainable Materials and Energy (1) 2MS0940 Recent issues of urban atmospheric environment (Tokyo Metropolitan Univ.) ○S. Kato	Magnetic Materials and Molecular Complexes (1) 2B0940 High-Field Ordered State in the $S = 1$ Spin Dimmer Compound $\text{Ba}_3\text{Mn}_2\text{O}_8$ (^A National High Magnetic Field Lab., Los Alamos National Lab., ^B Stanford Univ., ^C Theoretical Div., Los Alamos National Lab.) ○Y. Kohama ^A , E. C. Samulon ^B , R. D. McDonald ^A , M. C. Shapiro ^B , K. A. Al-Hassanieh ^C , C. D. Batista ^C , M. Jaime ^A , I. R. Fisher ^B 2B1000 Heat Capacities and Magnetic Phase Transitions of the Molecule-Based Magnets $(\text{AMe})_3\text{TOT}^{+} \cdot \text{FeBr}_4^{-}$ ($\text{A} = \text{S}, \text{Se}$) (^A Osaka Univ., ^B Shandong Agr. Univ., ^C Osaka City Univ.) ○ Y. Miyazaki ^A , X.-Z. Lan ^B , T. Ezaki ^C , M. Kuratsu ^C , S. Suzuki ^C , M. Kozaki ^C , D. Shiomi ^C , K. Sato ^C , T. Takui ^C , K. Okada ^C , A. Inaba ^A 2B1020 Thermodynamic Investigations of the Electron States of $\text{Pd}(\text{dmft})_2$ Salts by Low-Temperature Heat Capacity Measurements (^A Osaka Univ., ^B Tokyo Univ. of Science, ^C Toho Univ., ^D RIKEN) ○ S. Yamashita ^A , T. Yamamoto ^A , Y. Nakazawa ^A , M. Tamura ^B , Y. Nishio ^C , R. Kato ^D 2B1040 Low temperature heat capacity measurements of an organic conductor based on BETS molecule (^A Osaka Univ., ^B Nihon Univ., ^C Institute for Molecular Science) ○S. Fukuoka ^A , S. Yamashita ^A , T. Yamamoto ^A , Y. Nakazawa ^A , A. Kobayashi ^B , H. Kobayashi ^B , K. Yakushi ^C	Biological Thermodynamics, Pharmaceutical Materials and Foods (1) 2C0940 Observing Early Development of <i>Xenopus Laevis</i> by Single Embryo Calorimetry (^A Res. Cntr. Stru. Thermodyn., Grad. Sch. Sci., Osaka Univ., ^B Dept. Biol. Sci., Grad. Sch. Sci., Osaka Univ.) ○Y. Nagano ^A , K. Ode ^B 2C1000 The stabilization mechanism of a highly stabilized cold shock protein mutant by introducing a disulfide bond on its molecular surface (Nagaoka Univ. of Technology) ○S. Kidokoro, A. Hasegawa, N. Hirose
2MS1005 Electrode Design for Low Temperature Operation of Solid Oxide Fuel Cells (Tokyo Metropolitan Univ.) ○H. Munakata, M. Otani, Y. Katsuki, K. Kanamura	2C1020 Consideration on relationship between minimum sustainable energy of dissipative structure and information ○K. Amaya	2C1040 Analysis of thermodynamical basis of organism of a typical model of sustainability employing the molecular anvil model of an enzyme ○K. Amaya
2MS1030 Measurement of Thermal Conductivity of Polymeric Thermal Insulation Materials with Contact-type Temperature Wave Analysis (Tokyo Institute of Technology) ○ T. Hashimoto, J. Morikawa		

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

- 2S1110** Nano-environments surrounding molecular systems and their photo-function (Tokyo Metropolitan Univ., SORST/JST) ○H. Inoue

12:00~13:20 Lunch

13:20~15:00 Poster Session II Even Numbers

September 29, 2009

Room A	Room B	Room C
Symposium Sustainable Materials and Energy (2)	Magnetic Materials and Molecular Complexes (2)	Biological Thermodynamics, Pharmaceutical Materials and Foods (2)
2MS1520 DSC analysis of water condition in 3DOM silica composite membrane (Tokyo Metropolitan Univ.) ○ K. Sasajima, H. Munakata, K. Kanamura	2B1520 Thermodynamic Measurements of Organic Conductors by Micro-Chip Devices (^A Faculty of Science, Osaka Univ., ^B Graduate School of Science, Osaka Univ.) ○ Y. Muraoka ^A , Y. Inoue ^B , Y. Nakazawa ^B	2C1520 Inclusion Mechanism for Complexation between Amoxicillin and β -cyclodextrin in Strong Acidic Solution (Fukuoka Univ.) ○ T. Murakami, M. Yukawa, H. Ikeda, Y. Iwase, T. Yoshihara, H. Moriwaki, H. Aki
2MS1540 Thermal Stability on the Cathode Materials of Lithium Ion Battery (Toray Research Center) ○ Y. Furushima, C. Yanagisawa, K. Takahashi, H. Hosomi, M. Oishi	2B1540 Heat capacity measurements of low-dimensional organic conductor under pressures (Osaka Univ.) ○ N. Tokoro, O. Kubota, T. Yamamoto, Y. Nakazawa	2C1540 Evaluation of difference in physical properties of powders containing magnesium stearate hydrates by thermal effusivity (Toho Univ.) ○ M. Sato, Y. Yoshihashi, E. Yonemochi, K. Terada
2MS1600 Structures and Electrochemical Properties of Si-O-C Composite Anodes for Rechargeable Lithium Ion Batteries (^A Dow Corning Toray Co., Ltd., ^B Tokyo Metropolitan Univ.) ○ H. Fukui ^A , H. Ohsuka ^A , T. Hino ^A , K. Kanamura ^B	2B1600 Magnetic properties of spinel type compounds ACr_2X_4 ($A = Zn, Cd$; $X = O, S$) (^A Materials and Structures Lab., Tokyo Institute of Technology, ^B General Safety Management Center, Tokyo Institute of Technology) ○ K. Mizushima ^A , H. i Kawaji ^A , T. Atake ^B	2C1600 Model Study of Molecular Structures and Vitrification of Late Embryogenesis Abundant Proteins (^A Center for Biological Resources and Informatics, Tokyo Institute of Technology, ^B National Institute of Agrobiological Science, ^C Graduate School of Bioscience and Biotechnology, Tokyo Institute of Technology) ○ T. Furuki ^A , T. Shimizu ^A , T. Kikawada ^B , T. Okuda ^B , T. Takahashi ^C , H. Miura ^C , M. Sakurai ^A
2MS1620 Thermal Decomposition Behaviors of Positive Electrodes of Lithium-ion Batteries (^A Energy Technology Research Institute, AIST, ^B Research Institute for Ubiquitous Energy Devices, AIST) ○ Y. Saito ^A , H. Nitani ^B , M. Shikano ^B	2B1620 Heat Capacities and Phase Transitions of Hydroxyethyl Copper Rubenate Hydrates (^A Univ. of Tokyo, ^B Kyusyu Univ., ^C Kyoto Univ., ^D JST-CREST) ○ T. Yamada ^{A,D} , R. Yonamine ^A , T. Yamada ^{B,D} , H. Kitagawa ^{C,B,D} , O. Yamamuro ^{A,D}	2C1620 Investigation off condensation mechanism between DNA and oligoarginine by calorimetric study (^A Doshisha Women's Univ., ^B Doshisha Univ.) ○ S. Negi ^A , J. Taniguchi ^B , Y. Sugiura ^A

16:50~17:50 JSCTA the 36th Annual General Meeting (Room A)

18:30~20:30 Conference Dinner

September 30, 2009

Room A	Room B	Room C
Symposium Nano-materials and Nano-calorimetry (1)	Solutions and Liquids (4)	Metals and Inorganic Solids (1)
3MS0930 How well-controlled experiments under extreme conditions can contribute to a better understanding of polymer crystallization during processing ? (Mines ParisTech) ○S. A. E. Boyer	3B0930 Structure and Dynamics of Water Molecule Cluster Stabilized in Molecule-Based Zeolite (^A Tokyo Univ. of Science, ^B Bruker AXS K.K., ^C Tokyo Institute Technology) ○M. Tadokoro ^A , T. Suda ^A , T. Saitoh ^A , S. Taiki ^A , Y. Kimura ^A , T. Sugiyama ^B , K. Hiraishi ^B , M. Oguni ^C	3C0930 Heat capacity of hafnium hydrides and deuterides (^A Nagoya Univ., ^B Univ. of Fukui) ○T. Ogawa ^A , Y. Arita ^B , T. Matsui ^A
3MS0955 Detailed Analysis of Structural Formation Process during Polymer Crystallization (^A Yamagata Univ., ^B Kyoto Univ.) ○G. Matsuba ^A , K. Nishida ^B , T. Kanaya ^B	3B0950 Hydrogen-Bond Network and Glass Transition Behavior of Two Dimensional Nano Layer Water (Tokyo Institute of Technology) ○K. Watanabe, M. Oguni	3C0950 Study of Vaporization Behavior of LiCl-KCl Eutectic Salt at High Temperature (^A Nagoya Univ., ^B Univ. of Fukui) ○M. Otsuka ^A , Y. Arita ^B , T. Matsui ^A
3MS1020 Effect of stereocomplex formation on the crystallization behavior of poly(L-lactic acid) (^A Gunma Univ., ^B Kyoto Univ., ^C Yamagata Univ., ^D Toyota Central R&D Lab., Inc., ^E Toyota Motor Corp.) ○T. Kawai ^A , N. Rahman ^B , K. Nishida ^B , T. Kanaya ^B , G. Matsuba ^C , M. Kato ^D , H. Okamoto ^D , A. Usuki ^D , M. Matsuda ^E , K. Nakajima ^E , N. Honma ^E	3B1010 Characteristics of a series of glass transitions in a binary alkane system (Tokyo Institute of Technology) ○N. Miwa, M. Oguni	3C1010 Analysis of structural phase transition of low thermal expansion material, Al ₂ (WO ₄) ₃ by synchrotron X-ray diffraction and thermal analyses (^A Nihon Univ., ^B Osaka Pref. Univ.) ○ T. Hashimoto ^A , K. Omoto ^A , T. Sugimoto ^A , H. Ishibashi ^B
3MS1040 Nonisothermal crystallization of polymers: From the kinetics law prediction to the understanding of adhesion mechanisms during extrusion coating (^A Mines ParisTech, ^B PerkinElmer LAS, ^C Catalyse, ^D PerkinElmer SAS) ○S. A. E. Boyer ^A , P. Robinson ^B , P. Ganet ^C , J.-P. Melis ^D , J.-M. Haudin ^A	3B1030 Calorimetric characterization of the glasses prepared by vapor deposition immediately below the glass-transition temperature (^A Tokyo Institute of Technology, ^B Gakushuin Univ.) ○S. Ramos ^A , M. Oguni ^A , K. Ishii ^B , H. Nakayama ^B	3C1030 Investigation of nitridation mechanism of β -Ga ₂ O ₃ to GaN by thermogravimetical analysis in NH ₃ atmosphere and microstructural observations (Hokkaido Univ.) ○H. Kiyono, T. Sakai, S. Shimada
3MS1100 Local thermal analysis for melting temperature distribution and higher-order structure of poly(L-lactic acid) spherulite (^A Tokyo Instruments Inc., ^B Nihon Thermal Consulting Co., Ltd., ^C Anasys Instruments Inc.) ○Y. Yano ^A , Y. Hikima ^A , J. Morikawa ^A , T. Hashimoto ^A , N. Urayama ^B , K. Kjoller ^C	3B1050 Construction of an adiabatic calorimeter for low-temperature vapor-deposition and heat capacities of simple molecular glasses (ISSP, Univ. of Tokyo) ○S. Tatsumi, S. Aso, Y. Moriya, D. Hosaka, O. Yamamuro	3C1050 Calcination Conditions and Thermal Reduction Behavior in Preparation of Gold Nanoparticulate Catalysts (^A Tokyo Metropolitan Univ., ^B CREST, ^C JASRI) ○T. Takei ^{A,B} , N. Kawakita ^{A,B} , M. Horikawa ^{A,B} , H. Oji ^C , T. Honma ^C , H. Ohashi ^{A,B} , T. Ishida ^{A,B} , M. Haruta ^{A,B}

11:30~12:00 JSCTA Research Encouragement Award Lecture (Room A)

AW1 Thermal analysis of physical state of crystalline/glassy pharmaceuticals (Biomaterials Center, NIMS and International Center for MANA) ○K. Kawakami

12:00~13:20 Lunch

September 30, 2009

Room A	Room B	Room C
13:20～14:10 Plenary Lecture (Room A)		
		3S1320 Electron Correlation Effects in Molecular Compounds Studied by Relaxation Calorimetry Technique — Superconductivity, Metal-Insulator Transitions, Spin-Liquids — (Dept. of Chemistry, Graduate School of Science, Osaka Univ.) ○Y. Nakazawa
Symposium Nano-materials and Nano-calorimetry (2)		
3MS1420 Formation Process and Defect Exclusion of Microphase Separation Structure of Block Copolymer Film with Liquid Crystalline Side Chain (Tokyo Institute of Technology) ○M. Komura, A. Tsugueda, T. Iyoda		3C1420 Tunnel Levels of Ammonium Ion in a Crystal Field of Td Symmetry and Deuteration-induced Phase Transitions in $(ND_4)_2MCl_6$ as Their Consequence (^A Osaka Univ., ^B Azabu Univ.) ○T. Matsuo ^A , Y. Kume ^B
3MS1440 Softening temperature measurement of photoresist thin film by scanning thermal microscopy (SII Nanotechnology Inc.) ○M. Iwasa, T. Yamaoka, K. Ando		3C1440 A phase transition in beta pyrochlore oxide KOs_2O_6 studied by calorimetry and neutron diffraction (^A ISSP, Univ. of Tokyo, ^B Osaka Univ., CRAL) ○ M. Kofu ^A , K. Sasai ^A , O. Yamamuro ^A , K. Hirota ^B , R. Ibberson ^C , J. Yamaura ^A , Z. Hiroi ^A
3MS1500 Variable temperature AFM observation of fatigue process of NR/BR blends with nano particles (^A Yokohama Rubber Co., Ltd., ^B Tokyo Metropolitan Univ.) ○Y. Inoue ^A , H. Yoshida ^B		3C1500 Heat capacity of $PbZn_{1/3}Nb_{2/3}O_3-PbTiO_3$ solid solutions at low temperatures (^A Material and Structures Lab., Tokyo Institute of Technology, ^B National Institute for Materials Science, ^C General Safety Management Center, Tokyo Institute of Technology) ○ K. Sasame ^A , M. Tachibana ^B , H. Kawaji ^A , T. Atake ^C
3MS1520 Effect of cross linking on micro phase separated structure in IR/BR blend (Tokyo Metropolitan Univ.) ○W. Yamada, H. Yoshida		3C1520 Heat Capacity of Ni-Nb-Zr Glassy Alloy (^A Material and Structures Lab., Tokyo Institute of Technology, ^B General Safety Management Center, Tokyo Institute of Technology, ^C Tohoku Univ.) ○A. Uchida ^A , H. Kawaji ^A , T. Atake ^B , M.. Fukuhara ^C , A. Inoue ^C

Poster Session

- P01** Development of the reaction rate measuring system for a sample that be hardened after a reaction (^ATokyo Riko Co., Ltd., ^BTokyo Institute of Technology, ^CUbe Industries, Ltd., ^DTokyo Denki Univ.) ○H. Sato^{A,D}, E. Sakai^B, E. Maruya^C, S. Iida^A, S. Hagiwara^A
- P02** Evaluation of Air Influence to Cantilever type Calorimeter (^AGraduate School, Meiji Univ., ^BMeiji Univ.) ○T. Sugimoto^A, Y. Miyagawa^A, O. Nakabeppu^B
- P03** Transition Temperature Microscopy Using Technique for Probing Nanoscale Thermal Properties Measurrement (^ANihon Thermal Consulting Co., ^BAnasys Instruments Corp.) ○N. Urayama^A, K. Kjoller^B
- P04** Development of differential bio-calorimeter with MEMS thermopile sensor (^AGraduate School of Meiji Univ., ^BMeiji Univ.) ○M. Yamamoto^A, O. Nakabeppu^B
- P05** Development of Certified Reference Material (Cyclohexane for Thermal Analysis), (NMIIJ/AIST) ○Y. Shimizu, Y. Ohte, K. Kato
- P06** Electronic Structure of Pressure-Sensitive Organic Crystals Studied by Relaxation Calorimetry Technique (Osaka Univ.) ○T. Moriura, Y. Inoue, S. Yamashita, Y. Nakazawa
- P07** Heat Capacity and Magnetic Phase Transition of the Organic Radical Magnet BI₂Mn₃N (Osaka Univ., ^BKeio Univ.) ○Y. Miyazaki^A, N. Kashima^B, N. Yoshioka^B, A. Inaba^A
- P08** Heat anomalies of liquid 2-biphenylmethanol and 1,1-diphenylethanol (Univ. Tsukuba) ○M. Nobuhira, Y. Yamamura, S. Yasuzuka, K. Saito
- P09** Energetic consideration for dilute aqueous solution of amphipathic compounds (^ADept. of Biotechnological Science, Kinki Univ., ^BKagoshima Univ., ^CDept. of Chemistry, Kinki Univ.) ○M. Fujisawa^A, R. Kanzaki^B, T. Kimura^C
- P10** Gel network formation and sol-gel transition of 12-hydroxystearic acid solutions (^AGumna Univ., ^BRitsumeikan Univ.) ○K. Yoshiha^A, A. Takei^A, S. Kondo^A, H. Takeno^A, N. Nakamura^B
- P11** Excess Enthalpies of Sulfoxides + Second Aliphatic Alcohols at 298.15 K (Kinki Univ.) T. Kimura, ○T. Ota, H. Nakanishi, T. Kamiyama, M. Fujisawa
- P12** Associated state of butanols + butylamines II (Kinki Univ.) T. Kimura, ○A. Okuno, A. Soga, T. Kamiyama, M. Fujisawa
- P13** Coupled Modulated Monolayers in Lipid Bilayers (Tokyo Metropolitan Univ.) ○Y. Hirose, S. Komura, T. Kato
- P14** Structure and Properties of Water Molecule Cluster Confined to Molecular Nanoporous Crystal (^ATokyo Univ. of Science, ^BBruker AXS K.K.) ○M. Tadokoro^A, C. Iida^A, T. Saitoh^A, M. Horii^A, Y. Shimazaki^A, S. Nagasawa^B, Y. Yasuno^B
- P15** Morphology of lamellar domains formed below the Krafft temperature in a surfactant solution (Tokyo Metropolitan Univ.) ○Y. Kawabata, T. Shinoda, T. Kato
- P16** Excess partial molar enthalpies of butanol and pentanol isomers + water at 298.15 K (Kinki Univ.) ○S. Fujie, S. Inui, T. Kamiyama, M. Fujisawa, T. Kimura
- P17** Thermal expansibility, isothermal compressibility, and heat capacity of cyclodextrins (Kinki Univ.) ○E. Kanaoka, T. Kamiyama, R. Ishii, K. Sibuya, E. Aoki, T. Kimura
- P18** DSC study of water confined in mesoporous silica and organosilica (Nihon Univ.) ○K. Oodo, T. Masuda, H. Fujimori
- P19** Heat Capacities and Glass Transitions of 1-Propanol and Its Concentrated Solutions (^AOsaka Univ., ^BThe H. Niewodniczanski Instytute of Nuclear Phisics, ^CTokai Univ.) ○E. Juszyńska^{A,B}, T. Kondo^A, Y. Miyazaki^A, S. Sudo^C, N. Shinyashiki^C, S. Yagihara^C, A. Inaba^A
- P20** Lamellar-to-Onion Transition with Increasing Temperature under Shear Flow (Tokyo Metropolitan Univ.) M. Ito, Y. Kawabata, ○T. Kato
- P21** Selective synthesis of calcium carbonate polymorphs and their thermal behaviors (Hiroshima Univ.) ○T. Kimura, Y. Yamane, N. Koga
- P22** Kinetic behaviors of the thermal decompositions of synthetic zinc carbonate and hydroxide (Hiroshima Univ.) ○Y. Tanaka, N. Koga
- P23** Thermodynamic study on hydrolysis of calcium phosphate composite materials (^AOsaka Sangyo Univ., ^BOsaka Univ., ^CKinki Univ.) ○K. Sakamoto^A, I. Fujihara^A, K. Satoh^A, S. Yamaguchi^B, J. Ichihara^B, T. Kimura^C
- P24** Thermal conductivity and heat capacity of relaxor ferroelectric Pb(Mg_{1/3}Nb_{2/3})O₃-PbTiO₃ (National Institute of Materials Science) ○M. Tachibana, E. Takayama-Muromachi

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- P25** Low-temperature Heat Capacity and Boson Peaks of Alkali Borate Binary Glasses (^AUniv. of Tsukuba, ^BTokyo Institute of Technology) ○Y. Matsuda^A, M. Kawashima^A, H. Kawaji^B, T. Atake^B, S. Kojima^A
- P26** Structural phase transition of Cd₂Nb₂O₇ and Cd₂Re₂O₇ (^ATokyo Institute of Technology, ^BNational Institute for Materials Science) ○N. Taira^A, M. Tachibana^B, H. Kawaji^A
- P27** Magnetic effect on the phase transitions of Hg using a nW-stabilized DSC (^AChiba Univ., ^BUniv. of Tokyo, ^CYokohama National Univ.) ○H. Hayashi^A, M. Minohara^{A,B}, K. Tozaki^A, H. Inaba^A, S. Ozawa^C, I. Yamamoto^C
- P28** Effect of temperature and humidity conditions on the ZnO sheet formation from chlorine included zinc hydroxide compound (^AKochi Univ., ^BRigaku Corp.) K. Yanagisawa^A, T. Kozawa^A, Y. Masuda^B, ○A. Kishi^B
- P29** Thermal analysis of BaTiO₃ precursor solution including polyvinylpyrrolidone (Gunma Univ.) ○T. Kyomen, M. Hanaya
- P30** Suitability of growth models for analyzing microbial-calorimetric data (Mie Univ.) ○A. K. Sakamiya, A. Tanaka
- P31** Analysis of carbohydrate binding and catalytic reaction of endo-1,3- β -glucanase using isothermal titration calorimetry (Kyoto Pref. Univ.) ○Y. Tanabe, M. Oda
- P32** The prediction of the physical stability of amorphous naproxen in solid dispersion of HPMC-AS of the different grade (Toho Univ.) ○Y. Yoshihashi, M. Fujinaga, H. Oshima, E. Yonemochi, K. Terada
- P33** Role of hydrophobic amino acid residues in the starch binding domain of glucoamylase (^AMie Univ., ^BKwansei Gakuin Univ.) ○Y. Masuda^A, H. Sugimoto^B, H. Miyake^A, A. Tanaka^A
- P34** Effects of cyclodextrins on thermal stability of biopolymers (Kinki Univ.) ○M. Sato, T. Kamiyama, E. Aoki, D. Takeuchi, T. Kimura
- P35** Dilution enthalpies of cyclodextrins and cyclodextrins-protein interactions by ITC (Kinki Univ.) ○Y. Konishi, T. Kamiyama, T. Kimura
- P36** Behavior of Monolayer of Amines having long alkyl chain (Tokyo Metropolitan Univ.) ○E. Kishimoto, H. Yoshida
- P37** Water State Analysis in Thermo Reversible Hydrogel Containing Polyethylene Oxide (^AKanagawa Univ., ^BTA Instruments) ○Y. Iitaka^A, I. Takenoshita^B, T. Aikawa^B, Y. Nishimoto^A
- P38** Application of Thermal Decomposition of Polymers by skimmer type TG-DTA-PIMS (RIGAKU Corp.) ○Y. Amagasa, K. Motomura, T. Arii
- P39** The complex heat capacity in the rotator phase of *n*-alkane crystals II (Kyoto Institute of Technology) ○Y. Shimada, H. Yao, Y. Saruyama
- P40** Light hardening reaction and thermal evaluation analysis of nanoimprint material (^ASII Nanotechnology Inc., ^BToyo Gosei Co., Ltd.) ○Y. Kasai^A, T. Nakamura^A, N. Sakai^B
- P41** The dynamic heat capacity for drawn chloroprene rubber (^AFaculty of Engineering, Tokyo City Univ., ^BFaculty of Knowledge Engineering, Tokyo City Univ.) ○R. Sugimoto^A, M. Iijima^B, K. Takagi^A
- P42** Thermal Analysis of control humidity of thermal decomposition for polymer (RIGAKU Corp.) ○S. Yamaguchi, Y. Masuda, T. Arii
- P43** Phase Behavior and Defect Exclusion of Microphase Separation Film of Block Copolymer with Liquid Crystalline Side Chain/Low Molecular Liquid Crystal Blend (Tokyo Institute of Technology) ○A. Tsugeda, T. Iyoda, M..i Komura
- P44** Crystallization behavior of Poly(lactic acid) containing a nucleation agent (Tokyo Metropolitan Univ.) ○Y. Kudo, M. Yamato, H. Yoshida
- P45** Observation on thermal behavior of magnetically aligned micro phase separated structure using DSC-SAXS concurrent measurement (^ATokyo Metropolitan Univ., ^BEhime Univ.) ○J. Morohashi^A, M. Yamato^A, T. Ito^B, H. Yoshida^A
- P46** Analysis of curing process of photo-curable resin using DSC with ultraviolet-visible irradiation system (Toray Research Center) ○R. Ota, T. Nakamoto, H. Hosomi, T. Yamane, M. Oishi
- P47** Thermal study of 2,5-dichlorothiophene with plural crystalline phases (Nihon Univ.) ○N. Tanimoto, H. Fujimori
- P48** Structural analyses of the semi-crystalline PET by fast scan DSC (^AFaculty of Engineering, Tokyo City Univ., ^BFaculty of Knowledge Engineering, Tokyo City Univ.) ○K. Takayanagi^A, S. Takasugi^A, R. Sugimoto^A, S. Sakai^A, M. Iijima^B
- P49** Analysis for thermal degradation of chloroprene rubber by dielectric spectroscopy and TGA (^AGraduate School of Engineering, Tokyo City Univ., ^BFaculty of Knowledge Engineering, Tokyo City Univ.) ○H. Kuwahara^A, S. Sudo^B, M. Iijima^B, S. Ooya^A
- P50** Rigid amorphous fraction and mechanical property for iPP (^AGraduate School of Engineering, Tokyo City Univ., ^BFaculty of Knowledge Engineering, Tokyo City Univ.) ○S. Sakai^A, M. Iijima^B, K. Takagi^A

Poster Session

- P51** Solvent induced crystallization of poly(ethylene-2,6-naphthalate) (Gunma Univ.) ○Y. Kono, T. Kawai, S. Kuroda
- P52** Effect of Plasticizer on the Crystallization Behavior of Poly(L-lactic acid) (^AGunma Univ., ^BKyoto Univ., ^CYamagata Univ., ^DToyota Central R&D Labs., Inc., ^EToyota Motor Corp.) ○S. Koido^A, T. Kawai^A, S. Kuroda^A, H. Asakawa^B, K. Nishida^B, T. Kanaya^B, G. Matsuba^C, M. Kato^D, H. Okamoto^D, M. Matsuda^E, K. Nakajima^E, N. Honma^E, T. Kurose^E
- P53** DSC and TMA Analyses of Thin Polymeric Multilayer Films (^AMettler-Toledo K.K., ^BMettler-Toledo AG) ○T. Usui^A, A. Hammer^B, R. Reisen^B
- P54** Structure formation and crystal orientation in polypropylene nanocomposites with montmorillonite after shear induced nonisothermal crystallization (^APolish Academy of Sciences, ^BMines ParisTech) E. Szkudlarek^A, ○S. A. E. Boyer^B, J.-M. Haudin^B, E. Piorkowska^A
- P55** Interaction of dyes and nano layered material - Thermodynamic equilibrium and temperature effect - (^ATokyo Metropolitan Univ., ^BPRESTO/JST, ^CSORST/JST) ○S. Konno^A, S. Takagi^{A,B}, H. Tachibana^A, T. Shimada^A, H. Inoue^{A,C}
- P56** Crystallization behavior of poly(4-methyl-1-pentene) (Tokyo Metropolitan Univ.) ○T. Kikuchi, M. Yamato, H. Yoshida
- P57** An investigation on measurement accuracy of specific heat capacity using a heat-flux differential scanning calorimeter - In the case of polyethylene, acrylic resin and plastic composite - (Fukuoka Univ.) ○J. Fujino, T. Honda
- P58** Calorimetric Analysis of the Effects of Soil Stress Compound on Soil-Microbial Activity (Mie Univ.) A. K. Sakamiya, ○N. Origuchi, A. Tanaka
- P59** VOC adsorption and desorption properties of woodceramics prepared from waste wood (^AKanagawa Univ., ^BAIST, ^CAomori Prefectural Industrial Technology Research Center) ○S. Onuki^A, T. Tsugoshi^B, T. Okabe^C, Y. Nishimoto^A
- P60** Thermal Properties of MA-g-Engage (ethylene octene copolymer)/dimethyldioctadecyl quaternary ammonium chloride-modified montmorillonite clay nanocomposites (^ASONY Institute of Higher Education, ^BWestern Kentucky Univ.) ○R. Ozao^A, G. Latta^B, W.-P. Pan^B
- P61** Miscibility Evaluation of Nylon 66/Nylon 6/Sulfonated Polystyrene Ionomer Blends Investigated by Crystallization Dynamics (^ABeijing Institute of Technology, ^BTokyo Metropolitan Univ.) G. Zhang^A, X. Fan^A, ○H. Yoshida^B