5th International Discussion Meeting on Grass Transition

—Keep going Tohoku!—

Date: February 27th to March 1st, 2012

Site: Institute of Fluid Science,

 Tohoku University Sendai,

 Japan

Oral Presentation

1. K. Ngai (University of Pisa, Italy)

Dynamics of Interacting Oxygen Ions in Yttria Stabilized Zirconia: Bulk Material and Nanometer Thin Films

1. F. Affouard (Universite Lille 1, France)

Role of Residual Water for the Stability of Freeze-Dried Proteins

1. M. Paluch (Silesian University, Poland)

Anomalous Electrical Conductivity Behavior at Elevated Pressure in the Protic Ionic Liquid, Procainamide Hydrochloride

1. P. Harrowell (University of Sydney, Australia)

The Origin of Persistent Shear Stress in Supercooled Liquids

1. M. Tokuyama (Tohoku University, Japan)

Universality in Self-Diffusion near the Glass Transition

1. K. Miyazaki (University of Tsukuba, Japan)

The Glass Transitions from the Mean-Field Perspectives

1. X. J. Han (Shanghai Jiao Tong University, China)

Transport Properties and Stokes-Einstein Relation in a Computer-Simulated Glass-Forming Cu33.3Zr66.7 Melt

1. C. Alba-Simionesco　(CEA/CNRS, France)

Interplay between Structure and Dynamics in Molecular Liquids

1. L. Xu (Peking University, China)

Classical Nucleation Theory Study of Spontaneous Nucleation Rate near a Metastable Critical Point

1. S. Jeon (Postech, South Korea)

Nanomechanical Thermal Analysis of the Glass Transition of Polymers using Silicon Cantilevers

1. J. Yamamoto (Kyoto University, Japan)

Molecular Manipulator Driven by Spatial Variation of Liquid Crystalline Order

1. Y. Terada (Tohoku University, Japan)

Liquid-Glass Crossover and Liquid-Crystal Transition of Polydisperse Lenard-Jones Particle Systems

1. F. Mallamace (Universit di Messina, Italy)

Relation of Water Structural Relaxation to Water Anomalies

1. Y-H. Hwang (Pusan National University, South Korea)

Alkyl Chain Length Dependent Characteristics of Imidazolium Based IonicLiquids [CnMIM]+[TFSA]- : Brillouin and Dielectric Loss Spectroscopy Study

1. A. Meyer (German Aerospace Center, Germany)

On the Relation of Structural Relaxation, Diffusion of Mass and Viscous Flow in Bulk-Glass Forming Alloys

1. T. Voigtmann (University of Konstanz, Germany)

Yielding of Colloidal and Metallic Glass Formers

1. G. Tarjus (Universite Pierre et Marie Curie, France)

The Role of Attractive Forces in Viscous Liquids. Consequences for Theories of the Glass Transition

1. J. Habasaki (Tokyo Inst. Tech., Japan)

Study of Network Statistics of Silicate Glasses by Molecular Dynamics Simulations: Polyamorphism with Different Heterogeneity

1. R. Yamamoto (Kyoto University, Japan)

Mechanical Responses and Stress Fluctuations of a Strongly Sheared Supercooled Liquid

1. A. Yethiraj (Memorial University of Newfoundland, Canada)

Complex Structures in Dipolar Colloids

1. D. V. Louzguine (Tohoku University, Japan)

Recent Progress in Understanding Vitrification and Devitrification Processes in Metallic Glasses

1. A. Takeuchi (Tohoku University, Japan)

Analysis of Local Atomic Arrangements of Cu64Zr36 Bulk Metallic Glass Created with Molecular Dynamics Simulations Based on Plastic Crystal Model

1. A. R. Yavari (Institut National Polytechnique de Grenoble, France)

Glass Transition Temperatures Tg as measured by X-ray Diffraction

1. J. L. Tamarit (Universitat Politècnica de Catalunya, Spain )

Glassy Dynamics in “Ordered” Phases

1. Y-S. Jho (Asia Pacific Center for Theoretical Physics, South Korea)

Repulsion between Oppositely Charged Planar Macroions

1. T. Kawakatsu (Tohoku University, Japan)

Dynamic Density Functional Theories for Inhomogeneous Polymer Systems and Membranes

Poster Presentation

1. K. Kim (Institute for Molecular Science, Japan)

Lifetime of Dynamical Heterogeneity in Supercooled Liquids: Unveiling by Multi-Time Correlation Functions

1. A. Chutia (Tohoku University, Japan)

Electronic Structure of Water Chains, Clusters and Tubes in Carbon Nanotubes

1. T. Mizuguchi (Universite Lille 1, France)

The Role of the Attractive part of the Interaction Potential in the Glass Forming Ability

1. S. Enda (Tohoku University, Japan)

Dynamical Properties of Glass Forming Silica Near the Glass Transition Point

1. H. Shiba (University of Tokyo, Japan)

Heterogeneous Distribution of Local Free Volumes in a Highly Supercooled Liquid

1. H. Fujii (Tohoku University, Japan)

Study of Relationship between Thermal and Dynamical Properties in Glass-Forming Melts by Molecular-Dynamics Simulations

1. H. Mizuno (Kyoto University, Japan)

Mechanical Response of a Supercooled Liquid in a Sheared Non-Equilibrium State

1. M. Hattori (Kanagawa Institute of Technology, Japan)

A Simulation Study for Numerical Oscillation Problem of Moving Particle Semi-Implicit Method in Computational Fluid Dynamics

1. T. Akimoto (Keio University, Japan)

Energy Landscape Network in a Water Cluster

1. M. Kawami (Tohoku University, Japan)

The Effect of Particle Size Distribution on the Diffusion Process and Phase Change in Soft-Sphere Systems

1. M. Ozawa (University of Tsukuba, Japan)

Structural Properties of the Inherent Structures of the Hard Spheres

1. Y. Kimura (Tohoku University, Japan)

Comparison of Modified Mode-Coupling Theory to Brownian-Dynamcis Simulations with Soft Sphere Potentials

1. S. Arakawa (Tokyo Institute of Technology, Japan)

Handling of the Large-Sized Lightweight Structure under Zero Gravity

1. I. Koda (Tohoku University, Japan)

Dynamics of Binary Alloy in Supercooled Liquid State

1. K. Sasaki (Tokai University, Japan)

Dielectric Relaxations and Grass Transitions of Partially Crystallized Gelatin-Water Mixture

1. T. Takani (Tohoku University, Japan)

Density Dependence of Fractal Dimension in Modified Diffusion Limited Aggregation

1. Y. Ishimoto (Kyoto University, Japan)

2D Lattice Liquid Models

1. M. Miyara (Tokai University, Japan)

Dielectric Relaxation of PVP-Water Mixtures about Glass Transition

1. K. Kuroiwa (University of Tsukuba, Japan)

Mode Coupling Theory and Time Scale Separation in Asakura-Oosawa Model Binary System

1. D-M. Shin (Pusan National University, South Korea)

Cell-Based Capacitance Sensor for Detecting Cancer Cells

1. K. Kim (Institute for Molecular Science, Japan)

Dynamic Length Scales Identified by Three-Point Correlations: MD and IMCT? or MD vs. IMCT?

1. M. Toda (Tohoku University, Japan)

Statics and Dynamics of Wormlike Micellar Systems