

Schedule

August 6, 2016

Plenary talk

10:00 – 11:00 *Erica Flapan (Pomona College)*

Topological complexity in protein structures

Invited talks

11:10-11:50 *Tetsuo Deguchi (Ochanomizu University)*

Topological polymers studied through quaternions and the enhancement of the short-range intrachain correlation

11:50-12:30 *Kai Ishihara (Yamaguchi University)*

The nomenclature of graphs and its application in polymer chemistry

12:30-13:40 *Lunch*

13:40-14:20 *Ko-hei Nitta (Kanazawa University)*

Graph-theoretical approach to dynamics of tree-like polymer

14:20-15:00 *Akio Kawauchi (Osaka City University)*

Cross-index of a graph

15:00-15:40 *Kentaro Tanaka (Nagoya University)*

Supramolecular interlocked molecules

15:40-16:10 *Coffee*

- 16:10-16:50 Atsushi Takano (Nagoya University)
Viscoelastic properties of ring and ring-related polymers with various architectures
- 16:50-17:30 Ryo Nikkuni (Tokyo Woman's Christian University)
Linear embeddings of a graph into the 3-space and Conway-Gordon type theorems
- 17:30-18:10 Yasuyuki Tezuka (Tokyo Institute of Technology)
Topological polymer chemistry designing macromolecular graph constructions
- 18:20- Welcome mixer and poster session

August 7, 2016

- 9:40-10:20 Shun Fukaguchi (Saitama University)
Enumeration of $\mathcal{K}_{3,3}$ knots
- 10:20-11:00 Kyoichi Tsurusaki* and Rika Takeda
(Kanagawa Industrial Technology Center)
Non-linear viscoelasticity of rubbers and relation to loop deformation
- 11:10-11:50 Erica Uehara (Ochanomizu University)
Gyration radius, the hydrodynamic radius and the two-point correlation function of graph-shaped polymers
- 11:50-12:30 Takuya Yamamoto (Hokkaido University)
Self-assembly and topological transformation of cyclic polymers