

Joint symposium of the Polymer Network Group Meeting and the Gel Symposium

PN&G 2014, Tokyo

International Research Center, Tokyo, Japan

November 10-14, 2014

SECOND CIRCULAR

Organized by

The Institute for Solid State Physics (ISSP), The University of Tokyo

Polymer Networks Group

Research Group of Polymer Gels

Sponsored by

Anton Paar, Japan

Sumitomo Bakelite Co., Ltd

Menicon

Soft Matter, Royal Society of Chemistry

and others.

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CONFERENCE SCOPE

The joint symposium of the 22nd Polymer Networks Group Meeting (PNG) and the 10th Gel Symposium sponsored by the Institute for Solid State Physics, The University of Tokyo, (PN&G2014) will provide a platform for scientific exchange in all areas relevant to theory and simulation, fabrication, structure, properties, and industrial/medical applications of gels. This symposium will focus on “Cutting Edge of Chemistry, Physics, and Engineering in Polymer Networks (PhysChemEng).”

ORGANIZATION

Chair: Mitsuhiro Shibayama, The University of Tokyo
Vice Chair, Polymer Network Group

Co-chair: Masahiko Annaka, Kyusyu University
Chair, Research Group on Polymer Gels,
The Society of Polymer Science, Japan

International Advisory Board

Karel Dusek, Inst. Macromol. Chem., Czech Republic
Alexei Khokhlov, Moscow State Univ., Russia
Ludwik Leibler, ESPCI, France
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Michael Rubinstein, Univ. of North Carolina, USA
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Program Committee

Mitsuhiro Shibayama, Univ. Tokyo (RGPG-SPSJ/ PNG)
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Mitsuhiro Shibayama, Univ. Tokyo (PNG/RGPG-SPSJ)
Ryo Yoshida, Univ. Tokyo (RGPG-SPSJ)
Akira Matsumoto, Tokyo Medical and Dental University (RGPG-SPSJ)
Hidemitsu Furukawa, Yamagata University (RGPG-SPSJ)
Mariko Abo, Treasurer, Univ. Tokyo

CONFERENCE SCHEDULE

Date	Morning	Afternoon	Evening
Nov. 10 (MON)		Registration	Mixer
Nov. 11 (TUE)	Opening Ceremony Technical Sessions	Technical Sessions	Poster Session
Nov. 12 (WED)	Technical Sessions	Technical Sessions	Poster Session
Nov. 13 (THR)	Technical Sessions	Technical Sessions	Free
Nov. 14 (FRI)	Technical Sessions	Technical Sessions	Closing Ceremony Conference Dinner

SCIENTIFIC TOPICS

Scientific topics of the symposium will include all areas of polymer networks and gels, with special emphasis on

1. Physics (theory of elasticity, gelation, simulation, volume phase transition)
2. Chemistry (novel synthesis of gels)
3. Physical chemistry (sol-gel transition, gelation/vitrification, analysis and characterization)
4. Materials science (elastomers, thermosets, gels, biomaterials, etc.)
5. Engineering (responsive gel, bio-application, biomimetics, food science, drug delivery)
6. New materials (liquid crystal gel, ion gel, etc.)

More than 30 excellent scientists will be invited from Asia, Europe, and America to the symposium. Besides, contributed oral and poster presentation will be programmed.

PLENARY LECTURERS

Takuzo Aida, (The University of Tokyo, Japan) - “Aqua Materials and Bucky Gels”

Akira Harada, (Osaka University, Japan) - “Macroscopic Self-Assembly and Self-Healing through Molecular Recognition”

Alexei Khokhlov, (Moscow State University, Russia) - “Magneto-responsive elastomeric materials: main physical properties and applications”

Bjorn Lindman, (Lund University, Sweden) - “Amphiphilic properties of cellulose: Dissolution, association and network formation”

Ludwik Leibler, (ESPCI, France) - “Vitrimers, the third class of polymers”

Kell Mortensen, (University of Copenhagen, Denmark) - “Hydrogels based on Molecular Self-assembly Combined Studies of Structure and Rheology”

Murugappan Muthukumar, (University of Massachusetts Amherst, USA) - “Polyelectrolyte Gel Dynamics”

Ung-il Chung, (Univ. of Tokyo, Japan), - “Development of novel structural biomaterials by controlling 3D shape”

KEYNOTE LECTURERS

Anna Balazs, (Univ. of Pittsburgh, USA)

Matthias Ballauff, (Helmholtz-Zentrum Berlin, Germany)

Christopher Bowman, (University of Colorado, USA)

Ralph Colby, (Penn State Univ., USA)

Costantino Creton, (ESPCI, France)

Jack Douglas, (NIST, USA)

Cecile Dreiss, (King’s College London, UK)

Bhuvanesh Gupta, (Indian Inst. Tech., India)

Chang-Sik Ha, (Pusan National Univ., Korea)

Ferenc Horkay, (NIH, USA)

Eva Malmström- Jonsson, (Royal Inst. Tech., Sweden)

Costas S. Patrickios, (University of Cyprus, Cyprus)

Walter Richtering, (RWTHA Aachen Univ., Germany)

Michael Rubinstein, (University of North Carolina, USA)

Oren Scherman, (Univ. of Cambridge, UK)

Chi Wu, (Chinese Univ. of Hong Kong, Hong Kong)

Miklos Zrinyi, (Semmelweis Univ., Hungary)

INVITED LECTURERS

Jian Ping Gong, (Hokkaido University, Japan)

Takashi Miyata, (Kansai Univ., Japan)

Yukio Nagasaki, (Tsukuba Univ., Japan)

Atsushi Suzuki, (Yokohama Nat. Univ., Japan)

Toshikadzu Takata, (Tokyo Inst. Tech., Japan)

Masayoshi Watanabe, (Yokohama Nat. Univ., Japan)

Ryo Yoshida, (Univ. of Tokyo, Japan)

POLYMER NETWORKS GROUP (PNG)

YOUNG INVESTIGATOR AWARD

Polymer Networks Group Young Investigator Award, sponsored by Sumitomo Bakelite Co., Ltd., is established to recognize outstanding achievement of young investigators in the field of polymer networks and gels and to encourage young scientists and engineers to enter this field. The award consists of an award certificate and cash prize.

To be eligible for PNG Young Investigator Award, the candidate must be under the age of 40 as of January 1 of the year of the PNG Conference at which the award is given.

To apply, please provide the following documents not later than May 31, 2014:

- Cover Letter (no more than two pages) describing your most important scientific accomplishments.
- Resume (please also include complete list of publications).
- Letter of reference from a faculty member or employer familiar with your scientific accomplishments and potential.

Submit your application and required documents via the following website:

<http://www.polymernetworksgroup.org/award.htm>

ABSTRACT SUBMISSION

Participants are invited to submit their abstracts not later than May 31, 2014. Abstracts must be submitted online using the “Abstract Submission” link <http://www.tetrapod.t.u-tokyo.ac.jp/network/PNGS>. Before preparing your abstract, please view the “sample abstract” that illustrates the format (and preparation guidelines) of the abstract.

ONLINE REGISTRATION

Participants, including Plenary/Keynote/Invited lecturers, must register online no later than July 31st, 2014 (early registration) and August 31st, 2014 (regular registration). The early registration fee is 50,000 Yen for regular participants and 20,000 for students (from March 1st to July 31st, 2014). After July 31st, 2014 the registration fee is 60,000 Yen for regular participants, and 25,000 for students. Registration can be made online at <http://www.tetrapod.t.u-tokyo.ac.jp/network/PNGS>

ACCOMMODATION

There are several hotels near Hongo Campus of The University of Tokyo. Please make your hotel reservations yourself. We will be happy to assist you with booking a hotel room. In this case, please visit the Accommodation page at <http://www.tetrapod.t.u-tokyo.ac.jp/network/PNGS> (It will be open from April 30th, 2014.)

SCIENTIFIC PROGRAM INFORMATION

Language

English is the working language of the Symposium. No translation service will be provided.

Presentation

The allocated time for plenary, keynote/invited and contributed lectures will be 40, 30 and 20 minutes including discussion. Only computer multimedia projectors will be available in all meeting rooms.

Poster

The size of each poster should not exceed the dimension of 90 cm wide and 210 cm high will be provided for each poster display.

Publication

Selected papers of the conference will be published in a Special Issue of Macromolecular Symposia.

GENERAL INFORMATION

Visa

Some travelers need a visa to enter Japan. Please check the “[the list of visa exemption countries](#)” and inform us if you need visa.

http://www.mofa.go.jp/j_info/visit/visa/short/novisa.html - list

Upon receiving your Registration request, we will send you an official invitation letter with which you can apply for an entry visa at the Japanese Embassy or the nearest Consulate General.

Travel Information

Many direct international flights to Narita and Haneda are available. From the Narita airport, it is easy to reach the University of Tokyo by the Keisei Sky Liner to Ueno Station. From Ueno Station, take a taxi to Hongo campus of The University of Tokyo (15 minutes, about 2000JPY)

From Haneda airport, take monorail to Hamamatsucho, then change to JR Yamanote line to Tokyo station and take a taxi to Hongo campus (about 2500JPY).

The following attached message might be useful for taxi driver:

Please take me to the Ito International Research Center near the “Akamon” of The University of Tokyo.

東京大学の赤門近くにある伊藤国際学術研究センターまでお願いします。

Insurance

The organizers are not responsible for personal accidents or material damage, which may occur to the participants during the conference or tours. All participants are advised to make their own arrangements in respect to health and travel insurance before commencing their journey to the symposium.

Currency Exchange

In Japan, only JPY is used. Currency exchange services are available at airports. When exchanging money, you are advised to keep your receipt, which should be helpful when you change any remaining JPY back to foreign currency when leaving Japan.

Visa, Master, American Express, Diners Club, Million, JCB, and other credit cards are accepted in many department stores and hotels. But it is difficult to draw cash with credit cards.

Reconfirmation of Departure Air Ticket:

The participants are advised to reconfirm their departure air ticket (both international and domestic) 72 hours before the departure time. For the convenience of the participants, the hotel provides air tickets reconfirmation service.

ADDRESS FOR CORRESPONDANCE

For information about technical program, abstracts, registration, hotel reservation, visa application and payment, please contact:

PN&G2014 Secretariat

Web site: <http://www.tetrapod.t.utokyo.ac.jp/network/PNGS/>

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