

NIMS CONFERENCE 2014

A Strong Future from Soft Materials

2014. 7.1-3

Tsukuba International
Congress Center

EPOCHAL TSUKUBA
<http://www.nims.go.jp/nimsconf/2014>

Aim and scope:

NIMS Conference 2014 focuses on “soft materials” contributing to the fields of environment and energy.

Soft materials –plastic, liquid crystals, gels, rubber, and so forth– are important classes of materials to support modern society as with hard materials, such as metals and ceramics; plastics are key soft materials useful for clothes, vehicles, and houses, and liquid crystals have become the most popular material for displays. In addition, medical contact lenses and seismic isolation rubber, which attracted a lot of attention after the earthquake, are also important soft materials. In the field of electronics and information technology, OLED (Organic Light Emitting Diode) and fiber optics depend upon organic and polymeric materials, and research projects on these materials are underway in Japan. In the future, soft materials will become indispensable materials for us.

The field of soft materials straddles the boundaries of many disciplines of materials science, chemistry, physics, and biology; this includes synthesis of new organic molecules and polymers, control of assembled structures, building of principles and theories, evaluation of optical, electronic, and mechanical properties, biocompatibility, and so forth. NIMS has recognized the importance of soft materials in the 21st century and pursued research projects for such materials in cooperation with researchers from different fields.

Societal needs and demand for soft materials, however, are expanding rapidly. Lightweight and multicolor organic light-emitting materials are required for application in wearable display devices. In an aging society, implant materials made by fusion of hard materials with gel materials are essential to improve their biocompatibility and durability. Air and river pollution in Asian countries needs the development of environmental protection materials, such as high-performance filter and water treatment membrane, which are all dependent on new developments in soft matter.

In order to discuss these key issues, NIMS will organize the “NIMS Conference 2014” entitled “A Strong Future from Soft Materials” from July 1st to 3rd, 2014 in Tsukuba. This conference covers state-of-the-art organic and polymeric materials, optoelectronic functions of soft materials, interfaces comprised of biomaterials, and those contributing to the environment- and energy-related fields.

We hope this conference will provide new insight and ideas in materials science based on organic and polymeric materials.

Program at a glance

July 1

NIMS Award Ceremony & Lecture

To be announced

Plenary Lectures

Prof. Mitsuru Akashi (Osaka University, Japan)

Prof. Ludwik Leibler (ESPCI ParisTech, France)

Prof. Colin Nuckolls (Columbia University, USA)

Prof. Samuel I. Stupp (Northwestern University, USA)

Prof. Edwin L. Thomas (Rice University, USA)

July 2, 3

Technical Sessions

TS-1: Macromolecular & Soft Materials

TS-2: Advanced Biomaterials

TS-3: Advanced Organic Materials

TS-4: Advanced Soft-photonic Materials

TS-5: Soft-electronic and Ionic Materials

Poster Session

Call for Papers for Poster Session

Submission Deadline: May 16, 2014

NIMS Award 2014

NIMS will present the NIMS Award to people who have made distinguished achievements in research and development in the field of soft materials in recent years and as well as valuable contribution to NIMS previously or in the near future.

Registration (Deadline: June 20, 2014)

Free registration free. For all participants, the online registration (<http://www.nims.go.jp/nimsconf/2014>) is highly recommended. The registered participants can receive admission to all scientific sessions, an abstract book and a ticket for the conference banquet (July 1).

Venue

Tsukuba International Congress Center (EPOCHAL TSUKUBA)

2-20-3 Takezono, Tsukuba, Ibaraki 305-0032, Japan

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(<http://www.epochal.or.jp/eng/index.html>)

Correspondence

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In cooperation with (Tentative):

The Physical Society of Japan / The Japan Institute of Metals and Materials / The Surface Science Society of Japan / The Institute of Electronics, Information and Communication Engineers / Catalysis Society of Japan / The Vacuum Society of Japan / The Committee of Capacitor Technology / The Surface Finishing Society of Japan / The Ceramic society of Japan / The Society of Rubber Science and Technology, Japan / The Society of Synthetic Organic Chemistry, Japan / Japanese Society for Biomaterials / The Japan Society of Drug Delivery System / The Japanese Liquid Crystal Society / The Fullerenes, Nanotubes and Graphene Research Society / Japan Oil Chemists' Society / The Society of Rheology, Japan / The Japan Society on Adsorption / The Adhesion Society of Japan / Japan Society for Composite Materials / The Japanese Society for Synchrotron Radiation Research / The Society of Polymer Science, Japan / Japanese Society for Artificial Organs / The Society of Instrument and Control Engineers / The Japan Society of Polymer Processing / The Japan Society of Applied Physics / The Japanese Society for Neutron Science / The Chemical Society of Japan

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