

Fukuoka, JAPAN
ASAM-3
September, 2011

The 3rd Asian Symposium on Advanced Materials – Chemistry & Physics of Functional Materials – (ASAM-3)

September 19 (Mon)-22 (Thu), 2011
Kyushu University, Fukuoka, Japan

Organized by

Institute for Materials Chemistry and Engineering, Kyushu University, Japan

Sponsored by

Kyushu Univ. Global-COE Programs (Science for Future Molecular Systems / Novel Carbon Resource Sciences), Research Center for Synchrotron Light Applications, Kyushu Univ., JST ERATO (Takahara Soft Interface project), The Society of Polymer Science, Japan (SPSJ), Tokuyama Science Foundation, Neo-Biomimetics Forum, and I²CNER, Kyushu Univ., Seibu-branch, The Society of Fiber Science & Technology, Japan

Plenary Speakers:

Chihaya ADACHI (Kyushu Univ., Japan)

Bruno AMEDURI (CNRS, France)

Sung-Chul KIM (KAIST, Korea)

Masatsugu SHIMOMURA (Tohoku Univ., Japan)

Hung-Jue SUE (Texas A&M, U.S.A.)

Dongyuan ZHAO (Fudan Univ., China)

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Hideo NAGASHIMA (Kyushu Univ., Japan)

Masamichi NISHIHARA (Kyushu Univ., Japan)

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Masaharu TSUJI (Kyushu Univ., Japan)

Hirohmi WATANABE (JST & Kyushu Univ., Japan)

Kohji YOSHINAGA (Nagasaki Univ., Japan)



The 3rd Asian Symposium on Advanced Materials (ASAM-3)



Scientific Topics

The theme of the 3rd ASAM is focused on the chemistry and physics of functional materials. It includes but not limited to:

Engineering Biomimetics
Novel Carbon-based Materials
Chemistry and Physics of Soft Interfaces
Nanosystems (Mesoporous Materials, Nanocomposites)
Novel Functional Materials for Energy and Environment
Synchrotron Radiation Science in Advanced Materials Science

International Advisory Committee

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Vyacheslav BOUZNİK (Russian Academy of Sciences, Russia)
Sung Chul KIM (Korea Advanced Institute of Science and Technology, Korea)
Toyoko IMAE (National Taiwan University of Science and Technology, Taiwan)

Invited Speakers

Kookheon CHAR (SNU, Korea), **Ildoo CHUNG** (PNU, Korea), **Al Crosby** (UMASS, USA), **Mark Goegegan** (Univ. Sheffield, UK), **Sergey Gnedenkov** (RAS, Russia), **Mijeong HAN** (KRICT, Korea), **Rong-Ming HO** (NTHU, Taiwan), **Naoe Hosoda** (NIMS, Japan), **Takashi Kato** (Univ. Tokyo, Japan), **Osamu Ishitani** (Tokyo Inst. Tech., Japan), **Motoyasu Kobayashi** (JST & Kyushu Univ., Japan), **Hui-Zhong Kou** (Tsinghua Univ., China), **Ingo Krossing** (Albert-Ludwigs-Univ., Germany), **Jae-Suk Lee** (GIST, Korea), **Soonho Lim** (KIST, Korea), **Mizuo Maeda** (RIKEN, Japan), **Naotoshi Nakashima** (Kyushu Univ., Japan), **Ko Okumura** (Ochanomizu Univ., Japan), **Moonhor Ree** (POSTECH, Korea), **Duyeol Ryu** (Yonsei Univ., Korea), **Yury A. Shchipunov** (RAS, Russia), **Sujeet K. Sinha** (NUS, Singapore), **Eamor Woo** (NCKU, Taiwan), **Mamoru Sato** (Yokohama City Univ. Japan), **Yoshinobu Tsujii** (Kyoto Univ., Japan), **Alexei Vedyagin** (RAS, Russia), **Limin Wu** (Fudan Univ. China)

All correspondences should be sent to the Symposium Secretary or Co-Chairs by e-mail or website of this symposium:

E-mail: asam3@cstf.kyushu-u.ac.jp

<http://www.congre.co.jp/asam3/>

TEL: +81-92-802-2517 FAX: +81-92-802-2518

Abstract Submission

Abstract of papers should be submitted through Online Abstracts Submission before ~~July 15~~ **July 31 (extended)**, 2011. Their length must not exceed two pages (A4 format, 21 cm wide by 29.5 cm high) with typing area of 16 cm wide by 23 cm deep and leaving 2.5 cm margins, including figures and references. The further details may be found on the web-site.

Registration

The registration fee includes registration materials, conference proceedings, refreshments, and tour to SAGA Light Source. On-line registration is highly recommended through the official website at www.congre.co.jp/asam3/.

Registration Fee:

	<i>Before July 31</i>	<i>After August 1</i>
Full delegate	35,000 JPY	40,000 JPY
Student	12,000 JPY	15,000 JPY
Banquet	6,000 JPY	8,000 JPY
(Student	4,000 JPY	5,000 JPY)

Award

ASAM-3 *Young Researchers' Award* is granted to doctoral candidates and post doctorates presenters under 35 years of age for demonstrating outstanding oral or poster presentation at ASAM-3. The award recipients are invited to the banquet and receive an award at the closing ceremony.

Important Dates

Abstract submission : before ~~July 15~~, 2011 **July 31 (extended)**

Early bird registration: before July 31, 2011

Final program: August 15, 2011

All the participants should be registered through
<http://www.congre.co.jp/asam3/>

Venue



**Kyushu University
Chikushi Campus**
Fukuoka Airport →
(Subway Kuko Line) →
Hakata Station → (Transfer
JR Kagoshima Line) →
JR Onojo Station →
Chikushi Campus

Conference Venue
Kyushu University Chikushi
Campus, C-Cube

**Welcome Reception and
Banquet**
Hotel Centraza Hakata

Time Table for ASAM-3

Sep.1 (Wed)	Sep.20 (Tue)	Room A	Room B	Room C	Sep.21 (Wed)	Room A	Room B	Room C	Sep.22 (Thu)	Room A	Room B	Room C
	08:30	Registration										
	09:30	Opening Ceremony (1F, Chikushi Hall)			09:10	Plenary Lecture PL03 (1F, Chikushi Hall)			09:10	Plenary Lecture PL05 (1F, Chikushi Hall)		
	09:45	Plenary Lecture PL01 (1F, Chikushi Hall)			09:55	Break			09:55	Break		
	10:30	Break			10:15	2A01IL	2B01IL	2C01IL	10:10	3A01IL	3B01IL	3C01IL
	10:45	1A01IL	1B01IL	1C01IL	10:45	2A02IL	2B02IL	2C02IL	10:40	3A02IL	3B02IL	3C02IL
	11:15	1A02	1B02	1C02	11:15	2A03	2B03	2C03	11:10	3A03	2B03	3C03
	11:35	1A03	1B03	1C03	11:35	2A04	2B04	2C04	11:30	Break		
	11:55	1A04	1B04	1C04	11:55	2A05	2B05	2C05	11:35	Plenary Lecture PL06 (1F, Chikushi Hall)		
	12:15	Poster Session (Lunch) 3F Lobby			12:15	Poster Session (Lunch) 3F Lobby			12:20	Closing & Award Ceremony (1F, Chikushi Hall)		
	14:15	Break			14:15	Break			12:30	Lunch		
	14:30	1A05IL	1B05IL	1C05IL	14:30	2A06IL	2B06IL	2C06IL	13:20	Tour to Saga light source		
	15:00	1A06IL	1B06IL	1C06IL	15:00	2A07IL	2B07IL	2C07IL		Return to Fukuoka airport at around 17:30 and Hakata Station at around 18:00.		
	15:30	1A07	1B07	1A07	15:30	2A08	2B08	2C08				
	15:50	1A08	1B08	1A08	15:50	2A09	2B09	2C09				
	16:10	1A09	1B09	1A09	16:10	2A10	2B10	2C10				
	16:30	Break			16:30	Break						
17:00	Registration (Hotel Centraza Hakata, B2F)	Plenary Lecture PL02 (1F, Chikushi Hall)			16:50	Plenary Lecture PL04 (1F, Chikushi Hall)						
					17:35							
18:00	Welcome reception (Hotel Centraza Hakata, B2F)	Meeting of IAC with Organizers (TBA)			18:30	Banquet (Hotel Centraza Hakata, 3F Banquet Hall)						

Plenary 45 min (PL x 6), Invited 30min (IL x 27), Oral 20min (x39) = total 72 slots,

ASAM-3 Titles of Plenary and Invited Papers

Plenary Lectures

Recent progress in the Synthesis of Fluorinated Copolymers for Fuel Cell Membranes

Dr. Bruno Ameduri (Ingénierie et Architectures Macromoléculaires, Ecole Nat Sup de Chimie de Montpellier, France)

Solution Synthesis and Application of Ordered Mesoporous Carbons

Prof. Dongyuan Zhao (Department of Chemistry, Fudan University, China)

Dispersion and Assembly of Nanomaterials for Nanotechnology Applications

Prof. Hung-Jue Sue (Texas A&M University, USA)

Challenges Towards the Next-Generation OLED Materials and Devices

Prof. Chihaya Adachi (Kyushu University, Japan)

Multi-component Polymer Membranes for Direct Methanol Fuel Cell

Prof. Sung Chul Kim (Center for Advanced Functional Polymers, KAIST, Korea)

(Biomimetic Surface Materials Based on Self-organization

Prof. Masatsugu Shimomura (Tohoku University, Japan)

Invited Lectures

Chemistry and Physics of Soft Interfaces

Nanohybrids from Chiral Block Copolymer Templating

Rong-Ming Ho (Department of Chemical Engineering, National Tsing Hua University, Taiwan)

Transition Behavior and Microdomain Orientation in Block Copolymer Films

Dooyul Ryu (Yonsei University, Korea)

Chemically-attached Soft Polymer Interlayers on Si Substrate for Boundary Lubrication: Linear and Dendrimer Polymers with PFPE Overcoat

Sinha Sujeeet Kumar (National University of Singapore, Singapore)

DNA-based Soft Interface for Biosensing

Mizuo Maeda (RIKEN, Japan)

Formation of Multilayered Thin Films and Complexes Based on Molecular Interactions of Polyelectrolytes

Kookheon Char (Seoul National University, Korea)

Non-traditional Bio-inspired Adhesion and Synthetic Morphogenesis

Al Crosby (University of Massachusetts, U.S.A.)

Polyelectrolyte Brushes: Friction, Adhesion, and Lubrication.

Mark Geoghegan, (University of Sheffield, UK)

Wetting on textured surfaces and dynamics of liquid drops and bubbles

Ko Okumura (Ochanomizu University, Japan)

Reversible Adhesion of Ionic Polymer Brushes Prepared by Controlled Radical Polymerization

Motoyasu Kobayashi (JST & Kyushu University, Japan)

Novel Tribomaterials Newly Designed/ Synthesized by Living Radical Polymerization

Yoshinobu Tsujii (Kyoto University, Japan)

Engineering Biomimetics

Bio-inspired Bonding Technologies

Naoe Hosoda (National Institute for Materials Science, Japan)

Development of Self-Organized Inorganic/Organic Hybrid Materials

Takashi Kato (The University of Tokyo, Japan)

Nanosystems (Mesoporous Materials, Nanocomposites)

Effect of Silica Particles on the Electrical Conductivity of Silver Nanoparticle/Epoxy Conductive Adhesives

Soonho Lim, (KIST, Korea)

Colloidal Self-Assembly of Polymeric and Inorganic Particles and Properties

Limin Wu (Fudan University, China)

Nanocomposite Multifunctional Coatings Formed by Plasma Electrolytic Oxidation. Preparation, characterization and applications

Sergey Gnedkov (Institute of Chemistry, Far East Department, Russian Academy of Sciences, Vladivostok, Russia)

Nano Fabrication using Block Copolymers: Nanoparticles, Nanocomposites, and Nanoporous Materials

Jae-Suk Lee (Gwangju Institute of Science and Technology, Korea)

Well-defined Stimuli Responsive Polymers

Ildoo Chung (Pusan National University, Korea)

Novel Carbon-based Materials

Design of Novel Advanced Materials Based on Soluble Carbon Nanotubes

Naotoshi Nakashima (Kyushu University, Japan)

Mesoporous Carbon Materials Synthesized Through Sol-gel Approach

Yury Shchipunov (Institute of Chemistry, Far East Department, Russian Academy of Sciences, Vladivostok, Russia)

Novel Functional Materials for Energy and Environment

Stereocomplexed Poly(L-lactic acid)/Poly(D-lactic acid) as a Morphology and Nucleation Controller for Biodegradable Polymers

Eamor Woo (National Cheng Kung University, Taiwan)

Self-healing Effects of Halloysite Nanotubes on Corrosion Protection of Multi-functional Hybrid

Coatings

Mijeong Han (Korea Research Institute of Chemical Technology, Korea)

Computer Aided Synthesis of Ionic Liquids: Understanding, Prediction, Design

Prof. Ingo Krossing (Albert-Ludwigs-Universität Freiburg, Germany)

Artificial Multi-Step Light Harvesting System

Prof. Osamu Ishitani (Tokyo Institute of Technology, Japan)

Construction of Polymetallic Complexes as Molecular Magnets

Prof. Hui-Zhong Kou (Tsinghua University, China)

Synthesis of Aerogel Nanooxides with Unique Adsorptive and Catalytic Properties

Alexei Vedyagin (Boreskov Institute of Catalysis, Siberian Branch, Russian Academy of Sciences, Russia)

Synchrotron Radiation Science in Advanced Materials Science

SAXS to Investigate Protein Flexibility and Intrinsic Disorder in Solution

Mamoru Sato (Yokohama City University, Japan)

Roles of Functional Groups and Nanostructures in Programmable Digital Non-Volatile Electrical

Memory Polymer Systems

Moonhor Ree (POSTECH, Korea)

FAX 参加申込

送信先: ASAM 運営事務局 FAX 092-716-7143

氏名			
職位	Prof.	Dr.	Mr. Ms.
所属			
住所	〒		
電話番号		FAX	
E-mail			

参加カテゴリー

該当するものにチェックを入れるか で囲んでください。

参加費		Early Bird	Normal
	Regular	¥35,000	<input type="checkbox"/> ¥40,000
	Student	¥12,000	<input type="checkbox"/> ¥15,000
懇親会	参加	不参加	
佐賀視察ツアー	参加	不参加	

【お問い合わせ先】
ASAM 運営事務局
株式会社コングレ九州支社内
TEL:092-716-7116
E-mail: asam3@congre.co.jp

*下記口座までお振込みいただきますよう、お願いいたします。

銀行名: 西日本シティ銀行

支店名: 西新町支店 口座番号: 1556346

名義人名: エ - エスエ - エム - サン