



# 7<sup>th</sup> International Symposium on Molecular Thermodynamics and Molecular Simulation (MTMS'15)

Fukuoka University, Fukuoka, Japan August 4-7, 2015

<http://mtms15.jimdo.com/>



## Scope

The 7<sup>th</sup> International Symposium on “Molecular Thermodynamics and Molecular Simulation (MTMS'15)” will be held during August 4-7, 2015 at Nanakuma Campus of Fukuoka University in Fukuoka, Japan. The objective of this four-day symposium is to provide a forum for scientists and engineers to discuss the recent advances in fluid properties and their theoretical description. The symposium is structured with a single plenary lecture, several keynote lectures by eminent scientists and engineers, invited lectures on selected topics and oral and poster presentations. MTMS was established in 1994 by the *late* Professor Koichiro Nakanishi. MTMS has been held and organized at three-year intervals since 1994 :

<u>Date</u>	<u>Venue</u>	<u>Chair/Organizer</u>
1 <sup>st</sup> 1994	Kyoto	- Prof. Koichiro Nakanishi (Kyoto Univ.)
2 <sup>nd</sup> 1997	Tokyo	- Prof. Hideo Nishiumi (Hosei Univ.)
3 <sup>rd</sup> 2003	Sendai	- Prof. Hiroshi Inomata (Tohoku Univ.)
4 <sup>th</sup> 2006	Makuhari	- Prof. Toshihiko Hiaki (Nihon Univ.)
5 <sup>th</sup> 2009	Kanazawa	- Prof. Kazuhiro Tamura (Kanazawa Univ.)
6 <sup>th</sup> 2012	Higashi-Hiroshima	- Prof. Shigeki Takishima (Hiroshima Univ.)
7 <sup>th</sup> 2015	Fukuoka	- Prof. Yoshio Iwai (Kyushu Univ.)

## Important dates

Abstract deadline for orals and posters	<del>March 31, 2015</del> <b>April 15, 2015</b>
Early registration	April 1 - June 30, 2015
Letter of acceptance from committee	April 30, 2015
Deadline for proceedings submission	June 15, 2015
<b>MTMS'15 Symposium</b>	<b>August 4-7, 2015</b>

## Topics

- Molecular thermodynamics
- Molecular simulations and techniques
- Process design
- Equation of state
- Solution structure
- Supercritical fluids
- Macromolecules
- Thermophysical properties
- Quantum simulations
- Process simulation
- Activity coefficient
- Mesoscopic systems
- Ionic liquids
- Polymers

## Registration

### Registration fee

	General	Student
before June 30, 2015	50,000JPY	25,000JPY
after June 30, 2015	55,000JPY	30,000JPY

### Additional fees for conference dinner and conference banquet

	General	Student
Dinner on Aug. 5 (Wed)	5,000JPY	4,000JPY
Banquet on Aug. 6 (Thur)	10,000JPY	8,000JPY

Please visit MTMS'15 website to obtain additional information:

<http://mtms15.jimdo.com/>

## Program\*

Tuesday, August 4	Registration Welcome reception
Wednesday, August 5	Opening session Keynote lecture Scientific session Conference dinner
Thursday, August 6	Scientific session Excursion Banquet
Friday, August 7	Scientific session Closing

\*Additional information will be announced on the web site: <http://mtms15.jimdo.com/>

## Committees

### Executive committee:

#### Chair:

- Yoshio Iwai (Kyushu Univ., Japan)

#### Co-Chair:

- Kenji Mishima (Fukuoka Univ., Japan)
- Kiyofumi Kurihara (Nihon Univ., Japan)
- Shigeo Oba (App. Thermody. Phys. Prop. Co., Japan)

#### Advisory committee:

- Yasuhiko Arai (Japan)
- Hirokatsu Masuoka (Japan)
- Hideo Nishiumi (Japan)
- Shuzo Ohe (Japan)
- Katsumi Tochigi (Japan)

#### International Scientific Committee:

- Peter Cummings (Vanderbilt Univ., USA)
- Nevin Gereck (Schneider Electric, USA)
- Jeong Won Kang (Korea Univ., Korea)
- Georgios Kontogeorgis (Tech. Univ. Denmark, Denmark)

- Kwak Sang Kyu (UNIST, Korea)
- Zhiping Liu (Beijing Univ. Chem. Tech., China)
- José Nuno A. Canongia Lopes (Instituto Superior Técnico, Portugal)
- Clare McCabe (Vanderbilt Univ., USA)
- Cornelis J. Peters (Petro. Ins., UAE)
- Gabrielle Sadowski (TU Dortmund, Germany)
- Zaidul Sarker (Int. Islamic Univ., Malaysia)
- Jae-Jin Shim (Yeungnam Univ., Korea)
- Wenchuan Wang (Beijing Univ. Chem. Tech., China)
- Suojiang Zhang (Inst. Proc. Eng. Chinese Acad. Sci., China)

#### Organizing Committee:

- Takafumi Aizawa (AIST, Japan)
- Kenji Fukuchi (Ube Nat. Coll. Tech., Japan)
- Toshitaka Funazukuri (Chuo Univ., Japan)
- Masashi Haruki (Hiroshima Univ., Japan)
- Toshihiko Hiaki (Nihon Univ., Japan)
- Hidenori Higashi (Kanazawa Univ., Japan)
- Mitsuhiro Kanakubo (AIST, Japan)
- Satoru Kato (Tokyo Metro. Univ., Japan)
- Shin-ichi Kihara (Hiroshima Univ., Japan)

## Outline of scientific program

### Plenary speaker

Prof. Clare McCabe (Vanderbilt Univ., USA)

### Keynote speakers

Prof. Peter Cummings (Vanderbilt Univ., USA)  
Prof. Jeong Won Kang (Korea Univ., Korea)  
Prof. Georgios Kontogeorgis (Tech. Univ. Denmark, Denmark)  
Prof. José Nuno A. Canongia Lopes (Instituto Superior Técnico, Portugal)  
Prof. Cornelis J. Peters (Petro. Ins., UAE)

### Invited speakers

Dr. Nevin Gereck (Schneider Electric, USA)  
Prof. Kwak Sang Kyu (UNIST, Korea)  
Prof. Zhiping Liu (Beijing Univ. Chem. Tech., China)  
Prof. Gabrielle Sadowski (TU Dortmund, Germany)  
Prof. Zaidul Sarker (Int. Islamic Univ., Malaysia)  
Prof. Jae-Jin Shim (Yeungnam Univ., Korea)  
Dr. Seiji Tsuzuki (AIST, Japan)  
Prof. Wenchuan Wang (Beijing Univ. Chem. Tech., China)  
Prof. Suojiang Zhang (Inst. Proc. Eng. Chinese Acad. Sci., China)

- Shigetoshi Kobuchi (Yamaguchi Univ., Japan)
- Daisuke Kodama (Nihon Univ., Japan)
- Chang Yi Kong (Shizuoka Univ., Japan)
- Takashi Makino (AIST, Japan)
- Hiroyuki Matsuda (Nihon Univ., Japan)
- Kiyoshi Matsuyama (Kurume Nat. Coll. Tech., Japan)
- Yoshimori Miyano (Kurashiki Univ. Sci. Arts, Japan)
- Yasuhiko Mori (Sumitomo Chem. Co., Japan)
- Idzumi Okajima (Shizuoka Univ., Japan)
- Takeshi Sako (Shizuoka Univ., Japan)
- Yusuke Shimoyama (Tokyo Inst. Tech., Japan)
- Richard L. Smith (Tohoku Univ., Japan)
- Shigeki Takishima (Hiroshima Univ., Japan)
- Kazuhiro Tamura (Kanazawa Univ., Japan)
- Tomoya Tsuji (Nihon Univ., Japan)
- Hirohisa Uchida (Shinshu Univ., Japan)
- Morio Yamamoto (Sumitomo Chem. Co., Japan)

### Scientific Secretary:

•Setsuko Yonezawa (Kyushu Univ., Japan)  
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