



The Fifth International Symposium on Innovative Materials and Processes in Energy Systems, IMPRES2019

–Pursuing Low-Carbon Society by Innovative Energy Materials and Processes–



Photo credit: Kanazawa City

First ANNOUNCEMENT

Date:

20th – 23rd October, 2019

Venue:

Kanazawa Chamber of Commerce and Industry (KCCI), 9-13, Oyama-cho, Kanazawa, Ishikawa 920-8639, Japan

Tel +81-76-263-1151

URL: <http://www.kanazawa-cci.or.jp/rooms/>

Web URL:

<http://www.knt.co.jp/ec/2019/impres2019/index.html>

ORGANIZERS

Society of Chemical Engineers, Japan
IMPRES Organizing Committee

CO-ORGANIZERS

Division of Energy Engineering, SCEJ

SUPPORTERS

Foundation for Interaction in Science & Technology, Japan

TBA

Scope

Energy efficient usage is the key issue for our low-carbon society in bright future. The importance of development of innovative energy materials and processes was well recognized for efficient energy systems. Then, the first IMPRES was organized for keen discussion for the materials in Kyoto, Japan, in 2007. The IMPRES were took over fortunately in every three years at Singapore in 2010, Fukuoka, Japan, in 2013 and Sicily, Italy, in 2016. The evolution of the innovative materials and change of required specification of the materials are progressed rapidly in the last decade. The IMPRES is required to seek the ways for pursuing the material and process development and to adopt constantly with technology innovations and social changes.

IMPRES2019 is organized for mutual communication for new concepts and new ideas for the innovative materials and processes in energy system. All of researcher related with IMPRES are welcome to the event in beautifully traditional Kanazawa, Japan.

TOPICS

1. Thermal energy conversion and storage
 - Phase change material heat storage
 - Sorption heat pumps
 - Chemical heat pumps
 - Desiccant systems
 - Desalination
 - Others
2. Electric energy conversion and storage
 - Polymer electrolyte and low temperature fuel cells
 - Solid oxide and intermediate temperature fuel cells
 - Electricity storage
 - Thermoelectric devices
 - Photovoltaic
 - Others
3. Hydrogen production and storage
4. Energy processes and material properties
 - Separation
 - Reactors
 - Heat and mass transfer
 - Thermophysical properties
 - System reliability (corrosion, sealing, selectivity, etc.)
 - Durability in repetitive operation including severe conditions
 - Others
5. Environment and Biomass energy technologies
6. Others

COMMITTEES

General Chair:

Yukitaka Kato Tokyo Inst. Technology

Chair:

Akio Kodama Kanazawa Univ

ORGANIZING COMMITTEE

Keiko Fujioka Functional Fluids

Hidenori Higashi Kanazawa Univ.

Masashi Haruki Kanazawa Univ.

Mikio Kumita Kanazawa Univ.

Yugo Osaka Kanazawa Univ.

Takuya Tsujiguchi Kanazawa Univ

IMPRES International Scientific Committee:
 Atsushi Akisawa Tokyo Univ. A & T, Japan
 Yuriy I. Aristov Borekov Inst. Catalysis, Russia

Majid Bahrami Simon Fraser Univ., Canada

Liusa F. Cabeza Univ. Leida, Spain
 Robert E. Critoph Univ. of Warwick, UK
 Belal A. Dawoud OTH, Regensburg, Germany

Robert de Boer TNO, Netherland
 Ian W. Eames Univ. Nottingham, UK
 Inés Fernández Univ. Barcelona, Spain
 Angelo Freni CNR - ICCOM, Italy
 Stefan K. Henninger Fraunhofer ISE, Germany
 Akihiro Iiyama Univ. Yamanash, Japan
 Hideo Kameyama Tokyo Univ. A & T, Japan
 Ryuji Kikuchi Univ. Tokyo, Japan
 Yasunori Kikuchi Univ. Tokyo, Japan
 Michihisa Koyama NIMS, Japan
 Masahiko Matsukata Waseda Univ., Japan
 Ian S. Metcalfe Newcastle Univ., UK
 Takahiko Miyazaki Kyusyu Univ., Japan
 Shin Mukai Hokkaido Univ., Japan
 Katsunori Nagano Hokkaido Univ., Japan
 Takao Nakagaki Waseda Univ., Japan
 Reiji Noda Gunma Univ., Japan
 Ken Okazaki Tokyo Inst. Technology, Japan

Halime O. Paksoy Cukurova Univ., Turkey
 Peter Schossig Fraunhofer ISE, Germany
 Giovanni Restuccia CNR-ITAE, Italy
 Bidyut B. Saha Kyushu Univ., Japan
 Kiyoshi Saito Waseda Univ., Japan
 Naomi Shibusaki-Kitakawa Tohoku Univ., Japan
 Naoki Shikazono Univ. Tokyo, Japan
 Yasuyuki Takata Kyushu Univ., Japan
 Ichiro Takeuchi University of Maryland, USA

Mike Tierney Bristol Univ., UK
 Shohji Tsushima Osaka Univ., Japan
 Ruzhu Wang Shanghai Jiao Tong Univ., China

Akira Yamada Tokyo Inst. Technology, Japan

Xing Zhang Tsinghua Univ., China
 Felix F. Ziegler Technische Univ. Berlin, Germany

Publication Board
 Editor-in-Chief
 Bidyut Saha Kyushu Univ., Japan
 Vice Editor-in-Chief
 Masashi Haruki Kanazawa Univ., Japan

Call for Papers

The conference will be conducted in English. Extended abstract(s) (2-pages) related to the above topics are invited by January 31, 2019. The extended abstract stating clearly the objective of the work, results and a brief conclusion should be uploaded through the submission page of the

Web-site.

Author(s) should indicate which topic area the paper is addressing. Papers those are not suitable for the above topics should be labeled as "other".

- Technical papers will be presented either orally or by posters
- Selected contributions from the symposium will be published, after due peer review process, in:
 - Journal of Chemical Engineering of Japan
 - Applied Thermal Engineering
 - Heat Transfer Engineering

Registration

Online registration will start from May, 2019. The registration fee includes full participation to all of academic presentations, congress materials and coffee break. The online registration accepts only credit card payment. *The onsite registration is only payable by cash, please.*

REGISTRATION FEES

(All fees are in Japanese Yen.)

	Before 15 July, 2019	After 16 July, 2019
Regular	70,000	90,000
Student	30,000	40,000
Spouse*	10,000	13,000
Banquet (22 Oct)	10,000	13,000

Registration fee includes: Participation in all programs/ Congress materials/ Reception/ Lunch/ Tea breaks

*Spouse fee includes: Participation in only Reception/ Banquet

Cancellation policy: The cancellations must be received on or before 15 July, 2019. In this case, registration fees will be refunded after deducting the cancellation fee (10,000 JPY). No refunds will be made for any cancellation after that date.

Important dates

Abstract submission deadline

15 January, 2019

Notification abstracts acceptance

30 March, 2019

Early registration deadline

31 July, 2019

Symposium

20-23 October, 2019

Contact

IMPRES2019 Office, C/O Prof. Akio Kodama, Faculty of Mechanical Engineering, Institute of Science and Technology, Kanazawa University Kakuma-machi, Kanazawa 920-1192, JAPAN
 Fax: +81 76 264 6496
 E-mail: impres2019@ml.kanazawa-u.ac.jp

Kanazawa Tourist Information
<http://visitkanazawa.jp/>

(Ver.12, 08 September, 2018)