

# ISEM2017

The 6th International Symposium on  
**Energetic Materials and their Applications**

火薬学会

Japan Explosives Society

6 – 10 November, 2017, Sendai, Miyagi, JAPAN

Organized by Japan Explosives Society <http://www.jes.or.jp/isem/2017/>

President : Prof. Atsumi Miyake, Yokohama National University

Vice President : Mr. Nobuhisa Nakano, Kayaku Japan

Symposium Chairman : Prof. Keiichi Hori, Japan Aerospace Exploration Agency

Organizing Committee : Shuji Hatanaka (JPA), Koichi A. Hayashi (AGU), Kazuyuki Hokamoto (KU), Hirobumi Kaneko (Japan Carlit), Akiharu Kobayashi (NOF), Zenzaburo Kohzu (Chugoku Kayaku), Takuo Kuwahara (NU), Takehiro Matsunaga (AIST), Gento Mogi (UT), Hidetsugu Nakamura (JES), Jun Nakamura (RISE), Yoshio Nakayama (AIST), Kiyohiko Ogata (Asahi Kasei), Yuji Ogata (AIST), Motohiro Ogatsu (JPA), Nobuaki Sakuma (JESA), Masanobu Suzuki (NK), Yuji Wada (AIST)

## SCOPE

The objectives of the 6th International Symposium on Energetic Materials and their Applications (ISEM2017) include both fundamental researches and industrial applications relevant to energetic materials, and are to obtain an overview of the most recent international research efforts and to provide opportunities for scientists and engineers to establish avenues for cooperation and collaboration.

## CALL FOR PAPERS

All prospective authors for Oral Presentation and Poster Presentation should submit A4 one page abstract with one or two optional figures or tables as per the online procedure on the website, <http://www.jes.or.jp/isem/2017/> by 19 May, 2017. Online submission will be available soon.

## IMPORTANT DATES

19 May, 2017	Abstract Due
30 June, 2017	Notification of Acceptance
31 August, 2017	Early Registration Due
10 November, 2017	Manuscript Due

## TOPICS

The following is the list of topics that this symposium will cover. Any other topics related to energetic materials are also welcome.

### 1) Explosion Safety

- New Energetic Compounds
- Detonation & Deflagration
- SDT, DDT, XDT
- Non-Ideal Behavior
- Equations of State
- Theoretical Modeling
- Sensitivity
- Disposal & Recycling
- Hazard Assessment
- Safety Evaluation
- Analysis of Accidental Events
- Regulations & GHS

### 2) Blasting

- Explosives Product
- Initiation Systems
- Blast Design & Numerical Blast Design
- Fly Rock
- Misfires
- Fragmentations
- Ground Vibration & Air Vibration
- Concrete Blasting
- Blasting Tools & Technics
- Disposal & Recycling

### 3) Propellant and Pyrolant

- New Energetic Compounds
- Ignition & Combustion
- Nano-Materials
- Disposal & Recycling
- Numerical Modeling & Design

### 4) Pyrotechnics

- Initiators & Detonators
- Safety Devices
- Sensitivity
- Disposal & Recycling

### 5) Fireworks

- Pyrotechnics Devices
- Advanced Pyrotechnics
- The Art & History
- Safety
- Environmental
- Disposal & Recycling
- Numerical Modeling & Design

### 6) Analysis and Detection of Explosives

- Chemical Analysis
- Detection
- Security System
- Counter-Terrorism
- Thermal Stability

### 7) Gas Detonation

- Gaseous Phase
- Equation of State
- Shock Processing
- Numerical Modeling

### 8) Shock Compression of Condensed Matter

- Shock Waves in Condensed Phases
- Shock Chemistry
- Response of Materials under High Strain Rate Deformation
- Production of Materials by Shock & Detonation Loading

### 9) Pyro-Technique Safety Devices for Automobile

- Airbag Inflator
- Pyrolysis & Combustion
- Numerical Modeling
- New Energetic Compounds
- Aging Property
- Sensitivity
- Disposal

### 10) Blast Injury

- Blast & Shockwave
- Fragmentation
- Artificial Modeling of Human Body
- Mechanism of Physical Trauma
- Medical Treatment for Injury

### 11) Miscellaneous



MATSUSHIMA

One of the three most famous scenic places in Japan

## VENUE

Sakura Hall at Tohoku University, in “the City of Trees”  
Sendai, Miyagi, JAPAN

## LANGUAGE

The official language at the symposium is English.

## EVENTS

The social program will include an excursion to  
**MATSUSHIMA** and a farewell banquet.

## PUBLICATION

An accepted abstract will be included in the  
conference abstracts book. Additional papers  
featuring the presentation will be eligible for a special  
issue of the “**Science and Technology of Energetic  
Materials**”.



## SECRETARIAT

Dr. Kiyoshi Hashizume,  
Japan Explosives Society, 2-3-22, Azabudai, Minato-ku, Tokyo 106-0041, JAPAN  
Phone : +81-3-5575-6605, Fax : +81-3-5575-6607  
E-mail: [ISEM2017@jes.or.jp](mailto:ISEM2017@jes.or.jp)

## ACCESS

