

Fifth International Symposium on
Explosion, Shock wave and High-strain-rate Phenomena

ESH P 2016

25-28 September, 2016

Beijing, China

<http://www.eshp2016.cn>

Organized by

State Key Laboratory of Explosion Science and
Technology, Beijing Institute of Technology

Supporting Organizations

- Explosive Mechanics Division, Chinese Society of Theoretical and Applied Mechanics
- Explosion and Safety Division, China Ordnance Society
- Collaborative Innovation Center of Safety and Protection, Beijing Institute of Technology
- The National Natural Science Foundation of China (Grant 11221202)
- Institute of Pulsed Power Science, Kumamoto University
- Section of Explosion and Impulsive Processing, Japan Explosive Society
- Committee of the High-Energy-Rate Forming, Japan Soc. for Technol. of Plasticity

Honorary Chairs

Shigeru Itoh, Okinawa National Coll. of Technol., Japan
Fenglei Huang, Beijing Institute of Technology, China

Co-Chair

Pengwan Chen, Beijing Institute of Technology, China
Kazuyuki Hokamoto, Kumamoto University, Japan

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Objective

The objective of the triennial international ESH P conferences is to create a forum where people involved in scientific research or industrial applications related to explosion, shock waves and high-strain-rate phenomena can meet and discuss results and ideas. The symposium is comprised of invited lectures and contributed presentations. Oral and poster presentations are arranged for the contributed presentations. Students are encouraged to submit their papers for **the young scientist award** selected by the international scientific committee.



Topics

The symposium is planned to discuss the recent progress of theoretical, numerical and experimental researches on explosion, shock waves and high-strain-rate phenomena. The symposium covers the following general topics but the category is not limited: deflagration, detonation, and shock chemistry of energetic and reactive materials; shock wave and related phenomena in condensed and gaseous phases; response of materials and structures under high strain rates; production of materials by shock and detonation waves (shock induced phase transition and chemical reaction, explosive welding, Shock modification etc); innovative application of high-energy-rate phenomena. Additional contributions from related research areas are also welcome. The organizers of ESHP2016 would also like to organize three special sessions:

- I. Shock processing and production of materials -
Pengwan Chen & Kazuyuki Hokamoto
- II. Numerical Simulation of explosion and impact -
Cheng Wang, Xiaowei Chen & Zoran Ren
- III. Dynamic behavior of materials at high strain rates -
Yulong Li & Daniel Rittel

Workshop on High Pressure Food Processing (HPFP) as a part of ESHP2016

Organizers: Prof. Shigeru Itoh & Prof. Motonobu Goto

The Special Workshop, HPFP, is planned to have an active discussion on food processing using high static and dynamic pressure to improve the quality of foods which are processed through various unique processes. The participants are hereby informed to submit the papers. Limited number of the presented papers will be published as a Special Issue in the Journal of Food Engineering by Elsevier with high impact factor value through peer reviewing. After publishing the special issue, submission fee will be requested by the publisher.

Proceedings

In addition to the abstract book, the proceedings will be published in full text in Materials Science Forum on <http://www.scientific.net/MSF> (by Trans Tech Publications Ltd.) after the symposium. Details will be informed later, but you may find the format at the web site of the publisher. Authors retain the right to publish an extended, updated or rewritten version in another periodical.

Venue

The ESHP 2016 conference will be held in Beijing at the Friendship Hotel. Beijing is China's political, economic, cultural and educational center. It has been the heart and soul of politics and society throughout its long history and consequently there is an unparalleled wealth of discovery to delight and intrigue travelers as they explore Beijing's ancient past and enjoy its exciting modern development.

The Friendship Hotel of Beijing is one of the largest garden-style hotels in Asia, which represents classic Chinese architectural elegance and presents most pleasurable views. The Friendship Hotel is easily accessible by shuttle bus, subway or taxi from Beijing Capital International Airport.

Abstract Submission

An abstract should include the title, name(s) of author(s), addresses and the e-mail of corresponding author. The text should be set up in Time New Roman (MS Word format), font 12 throughout. Margins: 4 cm on top and bottom, 3.5 cm left and 3 cm right. Paper A4. The abstract length is 1-3 standard pages.

Important Dates

Abstract Submission Deadline: Friday, 1st July, 2016
Confirmation of Acceptance: Monday, 18th July, 2016
Hotel Reservations: Saturday, 10th September, 2016
Early Registration Deadline: Thursday, 1st September, 2016
Conference Dates: Sunday, 25th to Wednesday, 28th September, 2016

Preliminary Program

Sept 25 Arrival, registration
Sept 26 Registration, opening ceremony, presentations, banquet
Sept 27 Presentations, excursion
Sept 28 Presentations, closing ceremony
Sept 29 Departure

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