

# Call for Papers & Announcement

## Advancements in ENERGETIC MATERIALS & CHEMICAL PROPULSION

Website: <http://www.dlr.de/ISICP2018>

Email: [ISICP2018@dlr.de](mailto:ISICP2018@dlr.de)

The International Symposium on Special Topics in Chemical Propulsion & Energetic Materials (ISICP) is a very renowned scientific conference series with a focus on research and technology development in the complete range of propellants and energetic materials. The 11<sup>th</sup> symposium (11-ISICP) in this row will take place in September 9-13, 2018 at the Le Meridien Hotel in Stuttgart, Germany. Stuttgart as the capitol city of the federal state Baden-Württemberg in southwest Germany is an important European business and industrial location. It's also an important town of science, history and culture. Well known vacation areas and world culture heritage sites are not too far away (descriptions are on the website).

On behalf of the Organizing Committee, we are delighted to invite you to the 11th ISICP. Scientists, researchers, engine designers, engineers, manufacturers, and decision makers from all over the world, interested in the synthesis, ignition, combustion, deflagration and detonation of energetic materials with applications for chemical propulsion, blasting operations, power generation, etc. are invited to participate in this international event. The 11-ISICP will include several invited plenary talks and both oral and poster presentations, covering 17 technical areas.

This international Symposium will serve as a platform for

- the communication and networking between the participants regarding state-of-the-art approaches in

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### Timeline (Schedule of Events)

#### Website / Registration

January 12, 2018	Pre-Registration opens
March 9, 2018	Registration opens
July 9, 2018	Deadline Early Bird Registration
August 27, 2018	Deadline Late Registration
after Aug. 27, 2018	On-Site Registration only

#### Abstract and Paper Submission

January 12, 2018	Abstract Submission opens
March 9, 2018	Deadline Abstract Submission
May 7, 2018	Acceptance Notification
August 13, 2018	Deadline Final Manuscript

the field of energetic materials, like propellants, explosives, fuel and/or oxidizer ingredients, etc.

- the discussion of new and improved safety techniques in the combustion and handling of energetic materials also with regard to environmental aspects and statutory demands and provisions.
- the discussion and recommendation of future directions for research in combustion, propulsion and chemical reaction systems.

Please help us to make this symposium an important and unforgettable event that cannot be missed. We are looking forward to meet you at the 11-ISICP.

Prof. Keiichi Hori  
Symposium Co-Chair  
Japan Aerospace Exploration Agency (JAXA)  
Inst. of Space and Astronautical Science (ISAS),  
Sagamihara Campus, Japan

## Submission of Extended Abstracts

Extended abstracts (as well as the full papers) must be submitted electronically. Please submit the electronic version of your extended abstract (600 words maximum) with one optional figure or table as a pdf-file by online procedure on the Symposium Website via pull-down menu "Abstract & Registration", by 9 March 2018. Abstracts sent by fax or email will not be accepted.

Please follow all instructions carefully before submitting an extended abstract. All abstracts must be submitted in English, the official language of the conference. The authors can propose their paper for oral or poster presentation. Once the extended abstract is accepted, instructions on electronic submission of the full paper will follow.

## Selection of Papers

Acceptance for paper presentation (oral or poster) is based upon review of the submitted extended abstracts. During the conference the extended abstracts are provided to the participants in the program and abstract booklet. Authors whose abstracts are accepted are required to upload their full paper manuscripts to the International Journal of Energetic Materials and Chemical Propulsion (IJEMCP) for throughout review and finally publication. A "no-paper, no-podium" policy will be enforced.

Several Best Papers will be selected for awards from oral and poster presentations. Best Student Paper Awards will also be offered.

## Technical Areas

The 17 main technical areas of 11-ISICP are:

1. Innovative Methods in Energetic Material (EM) Development like Nano Technology and Additive (Layer) Manufacturing
2. Synthesis & Characterization of EMs
3. Conventional, Advanced and Environmentally-friendly "Green" Propellants (e.g. Energetic Ionic Liquids (EILs), High Energy Density Materials (HEDM), High Nitrogen Compounds, etc.)
4. Formulation, Processing, and Manufacturing of Energetic Materials

5. Insensitive Munitions, Hazard Reduction, and Safety Aspects
6. Combustor and Thrust Chamber Process Analysis
7. Theoretical Modeling and Numerical Simulation for Chemical Propulsion (CP) and EM
8. Performance Evaluation of EMs
9. Aging, Stability, and Compatibility
10. Recycling, Disposal, and Environmental Aspects
11. Test Methods and Diagnostic Techniques in CP and Combustion of EMs
12. Ignition and Initiation Processes
13. Detonation and Deflagration Processes, Deflagration / Detonation Transition (DDT)
14. Thermobarics and Thermites
15. Innovative / Advanced Rocket Propulsion Techniques and Systems
16. Rocket Thermal Protection Materials and Processes
17. Commercial Applications of EMs

## Invited Speakers

Eight leading scientists will give in invited plenary lectures detailed insight in their working areas. Details will be given on the website soon.

## Social Program

The welcome reception will be held at the Le Meridien Hotel, Stuttgart on Sunday evening September 9, 2018. The reception will be open to all the registered delegates, partners and invited guests, students and accompanying persons.

A conference dinner will take place in the evening of Wednesday, September 12, 2018. More information will follow soon.

## Technical Visit at DLR Test Center Lampoldshausen

On Thursday, 13th September 2018 a visit at the DLR test site is planned. It contains presentations, the visit of the exhibition hall with a brief overview on European rocket development in the past and today, and the visit of several test facilities. Bus transfer from hotel to Lampoldshausen test site and retour will be provided for this one day event.