

# Call for Papers & Announcement

## Advancements in ENERGETIC MATERIALS & CHEMICAL PROPULSION



### Submission of Extended Abstracts

Please follow all instructions carefully. Extended Abstracts and full papers must be submitted electronically. Please submit the electronic version of your Extended Abstract (600 words maximum) with one optional figure or table by online procedure on the Symposium Website, <http://10isicp.org>, by **6 December 2013**. Once the Extended Abstract is accepted, instructions on electronic submission of the full paper will follow.

### Selection of Papers

Acceptance of paper presentations is based upon review of Extended Abstracts. All full papers will be reviewed and considered for publication in the *International Journal of Energetic Materials and Chemical Propulsion* (IJEMCP). Several Best Papers will be selected for awards from oral and poster presentations. Best Student Paper will also be offered. A "no-paper, no-podium" policy will be enforced.

### Welcome

On behalf of the Organizing Committee, we are delighted to invite you to the 10th International Symposium on Special Topics in Chemical Propulsion & Energetic Materials (10-ISICP), which will be held at the National Engineering School ISAE-ENSMA (Ecole Nationale Supérieure de Mécanique et d'Aérotechnique), in Poitiers, France, 2-6 June 2014. Scientists, researchers and engineers from all over the world, interested in the synthesis, ignition, combustion and detonation of energetic materials with applications for chemical propulsion, demolition, and power generation are invited to participate in this international event. The 10-ISICP will include several invited plenary talks and both oral and poster presentations, covering 18 technical areas.

Poitiers is a city on the Clain river in west central France with high-speed train connection to Paris and to Charles de Gaulle-Paris airport. It is the capital of Poitou-Charentes region. The city is picturesque and its streets are interesting for predominant remains of historical architecture, especially from the Romanesque and Renaissance period. You will also appreciate knowing that Poitiers is a vibrant center of education, composed of predominantly young adults and students.

The science, the special events planned by the Organizing Committee and the city itself will make this an unforgettable event that we hope you will find entertaining and stimulating. Please help us make the 10-ISICP a terrific international symposium, a rendezvous that cannot be missed!

### Main Topics

- Nano Technology and Innovative Methods in Energetic Material (EM) Development
- Synthesis & Characterization of EMs
- Formulation, Processing, and Manufacturing of Energetic Materials
- Insensitive Munitions
- Hazard Reduction and Safety Aspects
- Theoretical Modeling and Numerical Simulation for Chemical Propulsion (CP) and EM
- Performance Evaluation of EMs
- Aging, Stability, and Compatibility
- Recycling, Disposal, and Environmental Aspects
- Test Methods and Diagnostic Techniques in CP and/or Combustion of EMs
- Ignition and Initiation Processes
- Detonation and/or Deflagration Processes
- Thermobarics and Thermites
- Innovative Rocket Propulsion Techniques
- Rocket Thermal Protection Materials
- Environmentally-Friendly "Green" Propellants
- Commercial Applications of EMs
- Performance of Advanced Propulsion Systems

### Schedule of Events

6 December 2013	Deadline for Receipt of Extended Abstracts
20 January 2014	Notification of Selection of Extended Abstracts
1 April 2014	Deadline for Early Registration Fee
1 April 2014	Full Paper Submission to IJEMCP Journal
1 May 2014	Distribution of Final Program
8 May 2014	Deadline for conference rate hotel reservations
<b>2-6 June 2014</b>	<b>10-ISICP Symposium</b>

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### Invited Speakers

**Prof. Sébastien Candel** of Ecole Centrale Paris, EM2C Laboratory, CNRS, France  
*Structure and dynamics of cryogenic flames under transcritical conditions*

**Dr. Bryce Tappan** of Los Alamos National Lab, USA  
*Reactions of Powdered Al in Combustion and Explosions With Carbon Dioxide or Water*

**Dr. Helmut K. Ciezki** of DRL in Lampoldshausen, Germany  
*Advanced Liquid and Gelled Propellants for Rocket and Ramjet Propulsion*

**Prof. Jimmie Oxley** of the University of Rhode Island-Dept. of Chemistry, USA  
*Explosive Detection: How We Got Here and Where are We Going*

**Prof. Tao Zhang** of Dalian Institute of Chem. Physics, Chinese Academy of Sci, China  
*Catalytic Decomposition of Propellants: Nitrous Oxide, Hydrogen Peroxide*

**Dr. Josette Bellan** of Jet Propulsion Laboratory of NASA, USA  
*Modeling and Numerical Simulations of Multi-Species High-Pressure Flows*

**Dr. Alexander Gromov** of Ohm University, Nurnberg, Germany  
*Nanometals in energetic systems: achievements and future*

**Dr. Arif Karabeyoglu** of Space Propulsion Group (SPG), USA  
*Challenges in the Development of Large-Scale Hybrid Rockets*

**Prof. Jean'ne M. Shreeve** of Dept. of Chemistry, University of Idaho, USA  
*Ionic Liquids as Hypergolic Fluids*