

## SECOND ANNOUNCEMENT



### THIRTY-SEVENTH INTERNATIONAL PYROTECHNICS SEMINAR

Hosted by Safety Consulting Engineers, Inc. and IPSUSA Seminars, Inc. in cooperation with  
The International Pyrotechnics Society



### The 37<sup>th</sup> International Pyrotechnics Seminar

will be held at the Grand Junction Doubletree Hotel at  
Grand Junction, Colorado, USA, on July 11-16, 2010

Co-Chairs: **C. James Dahn, Safety Consulting Engineers, Ph: 847-925-8100**  
**Larry Brown, National Technical Systems, Ph: 303-979-0533**

### SECOND ANNOUNCEMENT AND CALL FOR ABSTRACTS

The Thirty-Seventh International Pyrotechnics Seminar and Symposium will be held at the Grand Junction Doubletree Hotel in Grand Junction, Colorado, Sunday through Friday July 11 – 16, 2010. Information about the Seminar may also be found at our web page, <http://www.ipsusa.org>.

### GRAND JUNCTION, COLORADO

Awe-inspiring natural beauty and a dramatic red rock landscape. Exhilarating outdoor adventures and stunning golf courses. Peaceful places to reflect and unwind and a charming downtown full of great shops, restaurants, galleries and more. This is Grand Junction, Colorado's Wine Country.

The city of Grand Junction is your headquarters for exploring the wonders of Western Colorado. You will quickly discover that Grand Junction weather is different - mild and temperate even in winter. Feel free to contact the Grand Junction Chamber of Commerce and the Grand Junction Visitor Center. Our volunteer specialists are happy to help you discover all that awaits you in the city of Grand Junction. Here's a town that hasn't lost its charming western hospitality, even though we're the largest regional hub between Denver and Salt Lake City. Welcome, and feel free to look around!

### SEMINAR REGISTRATION

See enclosed registration form for registration fees. Note: discounts for early registration and for IPS members. Early registrants using credit cards (VISA, MasterCard or American Express only) will not be charged until just before the Seminar. Also, please specify Seminar activities for companions and note participation in all events for both registrants and companions on the registration form. *Please complete all sections of the form.*

### HOTEL RESERVATIONS

All hotel reservations should be made directly with the hotel. The telephone number for reservations is **970-241-8888** and they are located at 743 Horizon Drive, Grand Junction, Colorado 81506. Be sure to mention that you will be attending the IPSUSA 2010 seminar in July. The rates quoted are offered to registrants two days before and after the conference based on space availability. A credit card number must be given as the first night's deposit. However, there will be no charge to your credit card until departure. Cancellations must be received 24 hours prior to scheduled arrival to avoid a no-show charge. The hotel policy on early departure is that you must confirm your departure date when you check in, and any subsequent changes to an earlier date will incur a \$50 fee.

### IPSUSA SEMINARS BURSARY AWARD

Due to the global economic situation, there will be no Carver Bursary Award available for this seminar.

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### SYMPOSIUM TOPICS\*

Pyrotechnics, in the International Pyrotechnics Society context, includes all energetic materials. Subjects of interest for this Symposium include all aspects of pyrotechnics, (American definition) and to a lesser degree, explosives and propellants. Research aspects are emphasized for the latter two.

Contributed oral and poster presentations are planned in the following areas of interest:

- ◆ All aspects of Pyrotechnics
- ◆ Fuel/oxidizer formulations
- ◆ Insensitive materials
- ◆ Sensitivity and Safety
- ◆ Environmental considerations
- ◆ Nano-particles in energetic materials
- ◆ Testing methods and devices
- ◆ Manufacturing processes, twin-screw extruders, coacervation, co-precipitation, etc.
- ◆ Computational methods applied to energetics
- ◆ Improvised explosive devices (IEDs)
- ◆ Initiators and initiation
- ◆ Regulations and standards applicable to energetics, STANAGs, etc.
- ◆ Synthesis and composition of explosives and other energetic composites
- ◆ Unusual applications of energetic materials
- ◆ Explosive and propellant development and manufacturing

*\*Traditionally, this event has been called a "Seminar" and we will continue to do so for historical reasons. However, the recent composition of the presentations and manuscripts for these Seminars, by definition, qualify this event to more properly be called a "Symposium."*

### ADJOINING WORKSHOP

The 8<sup>th</sup> Workshop on Pyrotechnic Combustion Mechanisms will meet at the same hotel (on Saturday, July 11<sup>th</sup>), just before the 37<sup>th</sup> IPS Seminar. There will be a separate registration and fee for the Workshop (go to <http://intpyro.org/workshop.aspx>). This workshop is dedicated to the combustion of pyrotechnic materials. Whereas our present knowledge on the combustion of all kinds of solid propellants may be considered mature, our understanding of the combustion processes occurring with pyrotechnics is still in its infancy. Thus development of pyrotechnics for various applications, be it illuminating and decoy flares, igniter materials, smoke charges and the like, still requires time-consuming procedures resembling more of a trial and error system than a straightforward, in other words, deductive manner.

It is the aim of this workshop to create a platform for scientists to allow for detailed exchange of information and critical discussion on the physical and chemical aspects of the combustion of pyrotechnic materials.

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### SCHEDULE OF EVENTS

The timetable leading to the Seminar is:

(Note: changes in dates from the 1<sup>st</sup> Announcement)

#### **March 15, 2010**

Abstracts due to Seminar Coordinator  
Registration for the Seminar continues

#### **April 1, 2010**

Authors notified of paper acceptance  
Registration for the Seminar continues

#### **April 15, 2010**

Final Announcement with list of papers  
Registration for the Seminar continues

#### **April 28, 2010**

Poster Abstracts DEADLINE

#### **May 30, 2010**

Manuscripts due to Seminar Coordinator for proceedings  
Registration for the Seminar continues

#### **June 6, 2010**

Final date for receiving discounted registration\* by Seminar Coordinator

#### **July 11-16, 2010**

Thirty Seventh International Pyrotechnics Seminar

\*We strongly encourage registration even though you may not yet be prepared to make payment. Payment is not required prior to arrival at the Seminar. Registration forms received by June 6, 2010 will be accepted at the lower advance registration fee for payment at the Seminar. "Walk-in" registrants will pay a higher fee.

### ABSTRACTS

Abstracts must be unclassified and, if a government has sponsored the work, must be cleared for submission by the sponsoring government. Abstracts should be no more than 500 words in length. You may indicate your preference for presentation in oral or poster session. Full manuscripts from both types of presentations without distinction will be included in the proceedings. Commercial vendors must register and are encouraged to present posters.

### ABSTRACT SUBMISSION

To be considered, abstracts may be submitted for inclusion in the seminar at any time up to **March 15, 2010**. Receipt of your abstract will be acknowledged by email or airmail. Authors are requested to follow the guidelines for preparation of the manuscript for publication that can be found at <http://www.ipsusa.org/authorguidance.pdf>. Selection of the papers to be given at the Seminar will be made by **April 15, 2010** and a list of papers for oral and poster presentations will be posted on the website in May, 2010. It is our intent to publish the Proceedings of the Seminar in book form and on CD. These will both be distributed at the Seminar. It is expected that an author will present each

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oral or poster paper. It is our intent not to publish manuscripts of papers, of those authors who do not participate in the Seminar. This standard is set to encourage attendance and participation in the Seminar and to encourage the open exchange of ideas. Abstracts for poster session papers describing work in progress may be submitted at a later date. All papers will be presented and written in the English language. Furthermore, all submitted manuscripts must allow IPSUSA Seminars, Inc. to copyright their submissions in accordance to standard practice for the publication of all technical and scientific publications.

### FINAL FULL TEXT MANUSCRIPT SUBMISSIONS

Final full text manuscripts must be received by **MAY 25, 2010**. This is a firm date to permit inclusion in the printed Proceedings and CDs, which will be distributed at the Conference. Authors are requested to submit manuscripts in hardcopy and in electronic format (floppy disc, CD or email). The email and postal address of the IPS 2010 Coordinator is given below. If possible, please use Microsoft Word (Version 6 or later) for preparing the electronic version. All papers must be written in English. Please format the paper for printing on letter-sized (8 ½ x 11 inches) paper, using 11 point Times New Roman font for the main text, with one inch margins on all sides, and portrait orientation. Preferably, do not include headers, footers, or page numbers, which will be added later in preparing the compilation of papers for the Proceedings. (Note: if fonts other than Times New Roman and Symbol are used, it will be helpful if the fonts are embedded in the document; for TrueType fonts with recent versions of Microsoft Word, font embedding can be found under "Tools/Options/Save"). Please visit <http://www.ipsusa.org/authorguidance.pdf> for more guidelines. When submitting the abstract or manuscript please provide the email and full mailing address of the author to be contacted with questions.

### ACTIVITIES

**Activities for Registrants and Companions included in the registration fee:** The reception Sunday night, a mixer/picnic Monday night, Tuesday all-day tour for Companions of Seminar Registrants, Thursday banquet for registrants and the traditional Wine and Cheese Social at closing Friday, are all included in the registration fee.

**Companions' tour:** This special Tuesday bus tour, "no-charge" to Companions of Seminar Registrants, will be a bus trip to **Historic Downtown Grand Junction – Main Street**. Chartered in 1882, Grand Junction grew from its original city square mile to several miles in breadth. The heart of the city though remains in its downtown district. The historic buildings, unique shops, galleries and restaurants of this district are the most popular draw for visitors. Downtown is also home base for one of the nation's first and finest outdoor art collections – *Art on the Corner*. Over 120 sculptures, in a variety of styles and materials, are located along the streets in the Historic Downtown area. Historic walking tour and Art on the Corner brochures are available at the Visitor Center.

**Wednesday Afternoon - Grand Mesa Scenic Byway:** The Grand Mesa is the world's largest flat top mountain. The Grand Mesa Scenic Byway (Hwy 65) provides a beautiful drive from Grand Junction, over the Grand Mesa and into Delta County. Along the way are easily accessed lakes, hiking and biking trails and several lodges. With over 200 lakes, the Mesa is the perfect destination for fishermen. Cedaredge, on the Southern end of the Byway, is home to Pioneer Town – a worthwhile stop to check out some of the history of Western Colorado. Sign up for this spectacular journey. There is an extra charge for this event.

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### SEMINAR REGISTRATION

Seminar registration, abstracts and manuscripts will all be handled through:

**Pat Hobbs: IPS 2010 Coordinator**  
Safety Consulting Engineers, Inc.  
2131 Hammond Drive  
Schaumburg, Illinois 60173-3811  
Phone: (847) 925-8100 · Fax: (847) 925-8120  
e-mail: [sceinc@sceinc.com](mailto:sceinc@sceinc.com)

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**REGISTRATION FORM**

Title: \_\_\_\_\_ Name: \_\_\_\_\_

Companion Name(s) \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

City

State

Zip Code

Country

May we include your phone number and e-mail address on the Attendee List? Yes  No

**Fill in amount for applicable fees and then total:**

IPS or AFP Member Registration (must be a member by March 1, 2010 to get the discount) before June 7 <sup>th</sup> *	\$1090	_____
Non-Member Registration before June 7 <sup>th</sup> *	\$1125	_____
IPS or AP Member Registration on & after June 7 <sup>th</sup> *	\$1125	_____
Non-Member Registration on & After June 7 <sup>th</sup> *	\$1130	_____
Companion, Breakfasts (all 5 days) for a total of .....	\$ 50	_____
Companion Lunches, Mon ___ Tues ___ Wed ___ @ \$22/each day		_____
Wednesday Grand Mesa Tour & Supper ** # _____ @ \$40/person		_____
Thursday Banquet Non-registrants # _____ @ \$60/person		_____
Children under 14 at no cost		_____
<b>Total Remitted</b>		_____

**\*Includes Proceedings, Portfolio, Refreshments, Registration Social, Mixer/Picnic, Five Breakfasts, Three Lunches, Tuesday Companion Tour to Town, Thursday Banquet and Friday Wine & Cheese.**

**\*\*Children under 14 accompanied by an adult are free.**

**My companion(s) and I plan to participate in the following activities:**

	Registrant	Companion(s)
Sunday, 11 July, Registration Social	()	()
Monday, 12 July, Lunch	()	()
Monday, 12 July, Mixer/Picnic Dinner	()	()
Tuesday, 13 July, Lunch	()	()
Tuesday, 13 July, Companion Tour to Town	()	()
Wednesday, 14 July, Grand Mesa Scenic Tour & Supper	()	()
Thursday, 15 July Banquet	()	()
Friday, 16 July, Wine & Cheese Social	()	()

Return form to IPS Coordinator, Pat Hobbs @ 2131 Hammond Drive, Schaumburg, IL 60173 or Fax to 847-925-8120. Checks must be in US dollars, payable on a US bank, payable to 2010 IPSUSA Treasurer. Fees may also be paid at time of arrival, but **PLEASE PRE-REGISTER. ONLY VISA, MASTERCARD or AMERICAN EXPRESS, Cash or Check will be accepted for Seminar Fees! No Purchase Orders will be accepted.**