

# 47<sup>th</sup> International Pyrotechnics Society Seminar



## First Call for Papers (Abstracts)



Hosted by  
IPSUSA Seminars, Inc.

## A Major International Forum for Pyrotechnics and Energetic Materials!

July 14-19, 2024

The 47<sup>th</sup> International Pyrotechnics Society Seminar will be held at the Albuquerque Marriott Pyramid Hotel in Albuquerque, New Mexico, USA, on July 14-19, 2024



Marriott Pyramid Hotel  
Albuquerque, New Mexico

<https://www.marriott.com/en-us/hotels/abqmc-albuquerque-marriott-pyramid-north/overview/>

## Seminar Topics

Pyrotechnics, in the international context, includes all energetic materials. Subjects of interest for this Seminar include explosives, propellants, pyrotechnics, and devices that utilize these materials, processes used to make them, and the physical and chemical principles and processes involved in their design, characterization, reaction, testing, operation, and aging.

- All aspects of pyrotechnics
- Fuel/oxidizer formulations
- Insensitive energetic materials
- Sensitivity, hazards and safety
- Solid rocket propellants
- 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
- Detonation science
- Improvised explosive devices (IEDs)
- Initiators and initiation
- Pyrotechnic generated/dispersed biocides
- Regulations and standards applicable to energetics; STANAGs, etc.
- Sustainability of products, processes and disposal under regulations
- Synthesis of explosive, propellant, and pyrotechnic ingredients
- Formulation of explosive, propellant, pyrotechnic, and gas generating compositions
- Unusual applications of energetic materials
- Conventional/non-conventional explosives
- Commercial fireworks (R&D, processing, safety, materials, etc.)
- Commercial explosives and pyrotechnics for blasting, excavation, drilling, and mining

## Abstracts

Abstracts should be no more than 500 words in length. You may indicate your preference for presentation in the Oral or Poster Session. Full manuscripts from both types of presentations, without distinction, will be included in the Proceedings. Full manuscripts are not required for Posters. A detailed Summary/Abstract (two to four pages) is acceptable for Posters to be published in the Proceedings.

Commercial vendors must register and are encouraged to present posters or display exhibits.

## Submission of Abstracts

To be considered, Abstracts may be submitted for inclusion in the Seminar at any time up to January 14, 2024. Receipt of your Abstract will be acknowledged by email. Guidelines on how to prepare the manuscript for publication will be available on the IPSUSA Seminar website. Selection of the papers to be given at the Seminar will be made in February 2024, and **a list of papers for Oral and Poster presentation will also be published and posted on the website in March 2024.** The Proceedings of the Seminar will be published as a CD or USB thumb-drive and will be distributed at the beginning of the Seminar.

It is expected that an author will present each oral paper. **It is our intent not to publish manuscripts of papers from 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. 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 with standard practice for the publication of all technical and scientific publications.

Authors are personally and solely responsible for obtaining organizational clearance for their paper (abstract and manuscript) before submitting it to the Seminar for presentation and publication. In granting the clearance approval, it should be understood that the abstract and manuscript will be published in the Seminar Proceedings on a CD or USB thumb-drive. These will be made available to the public at large.

## Passport and Visa Advisory and Warning

**In the process of obtaining your Visa for travel to the USA, you may be asked to appear for a personal interview. This will lengthen the time it takes to obtain a Visa.**

**We strongly recommend starting the Visa application process as early as possible.**

## Schedule of Events

### First Week of August 2023

Second Call for Papers with Reminder for Abstracts

Registration for the Seminar continues

### First Week of November 2023

Third Call for Papers with Reminder for Abstracts

Registration for the Seminar continues

### January 14, 2024

Abstracts due to Seminar Coordinator (see email address on second page)

Final full text manuscripts are due for the Young Scientist Award and the Bursary Award considerations

Registration for the Seminar continues

### February 15, 2024

Authors notified of paper acceptance Young Scientist Award and Bursary Award Notifications

Registration for the Seminar continues

### March 15, 2024

List of papers for Oral and Poster

Presentations posted on the website

Registration for the Seminar continues

### April 26, 2024

Full Manuscripts due to Seminar Coordinator for Proceedings

Registration for the Seminar continues

### June 14, 2024

Final date for receiving discounted registration \*\*

### June 24, 2024

Cutoff date for Hotel reservations

### July 14-19, 2024

47<sup>th</sup> International Pyrotechnics Society Seminar

**\*\* We strongly encourage completing the Seminar Registration form and making your Hotel reservation early. While payment is not required prior to arrival at the Seminar, early payment is encouraged.**

**Registration forms received by June 14, 2024, will be accepted at the lower advance registration fee for payment at the Seminar. "Walk-in" registrants will pay a higher fee.**

**Your Credit card will not be billed until the date of the Seminar.**

## Albuquerque, New Mexico

Albuquerque is one of the oldest cities in the United States. Albuquerque boasts a unique multicultural history and heritage. Native American, Hispanic & Latino cultural influences are a part of everyday life.

Albuquerque is a hub for technology and media companies, historic landmarks, and the fine arts. The city is home to the University of New Mexico, the Albuquerque International Balloon Fiesta, the Gathering of Nations, the New Mexico State Fair, and a diverse restaurant scene, which features both New Mexican and global cuisine.

Visiting Albuquerque allows you to experience the authentic Southwest. Nowhere is the confluence of past and present more dramatic than here in Albuquerque, where the modern city skyline is set against a backdrop of the stunning Sandia Mountains and an endless, timeless blue sky.

The incomparable weather and scenery also make Albuquerque the hot air ballooning capital of the world. Balloons dot the clear blue skies throughout the year, revealing a myriad of colors. At night, Albuquerque is bathed in the glow of neon signs, relics of the city's role along historic Route 66. Locals and visitors enjoy kicking up their heels in the bustling downtown entertainment district, taking in a show by one of the international theater and dance companies, and visiting the many casinos surrounding the metropolitan area.

## Hotel Reservations

To make Reservations before August 2023, you may call the Hotel's direct number at 1-505-821-3333 and ask for Reservations. Make sure you reference "IPSUSA". NOTE: As soon as we get the direct IPSUSA Reservation links, they will be posted on the IPSUSA website and emailed to you. There will be a limited number of Per Diem rooms (for U.S. Government Employees only – with a valid Government ID), so it is advised that you register early if you qualify for these. Regular room rates will be \$145 per night. Once you make your reservation, you will receive a confirmation number from the hotel.

## Albuquerque Marriott Pyramid

The Albuquerque Marriott Pyramid North offers convenience and style just 4 miles from Sandia Resort and Casino. Take a short drive to Cliff's Amusement Park to enjoy the rides and water park, or head to Balloon Fiesta Park for year-round outdoor fun.

They have a connected indoor/outdoor pool for fun in the hotel, so you can choose to splash in the sun or swim in the shade. Their fitness center is open 24 hours daily with cardio equipment and free weights. All rooms at their pet-friendly hotel in Albuquerque, NM, feature HD TVs with premium movie channels. If you need to work while on the road, they have ergonomic chairs and desks, or you can head to their business center for print, fax and copy services.

Splurge on a special stay in one of their spacious suites with room to spread out. They also have concierge-level options with access to their Concierge Lounge.

## Seminar Registration

See attached Registration Form for Registration fees. Note discounts for early registration and for IPS members. Early registrants may pay in advance using PayPal or when they arrive at 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.

## Activities for Registrants & Companions included in the Registration Fee:

There is an informal reception Sunday evening with ample food, a casual get-together Mixer/Picnic on Monday night with a Mariachi Band, and a special outing and dinner on Thursday evening (for Registrants only\*), which are included in the Registration fee. **\*Companion fee for the Thursday evening event is extra.**

## 2024 Dr. Bernard E. Douda – Young Scientist Award

One special award, the **2024 Dr. Bernard E. Douda – Young Scientist Award** for Pyrotechnics Investigators is anticipated from the fund established through the International Pyrotechnics Society. The award will pay for the 47<sup>th</sup> IPSUSA Seminar Registration fee and a 2-year paid IPS membership. To be eligible for the award, the Applicant must be under 40 years of age at the time of the submission deadline (January 14, 2024), must not be an officer or past officer of the IPS or IPSUSA, must submit a full paper with cover letter explaining the importance of the presented work along with a curriculum vitae, and must attend and present the paper at the 47<sup>th</sup> IPS Seminar. Applicants will be notified by February 15, 2024. The point of contact for this award is Dr. Ken Smit, President of IPS, at [ken.smit@defence.gov.au](mailto:ken.smit@defence.gov.au).

## Frank Carver Bursary Award

One special award, the **Frank Carver Bursary Award** for a Pyrotechnics Investigator is anticipated from the Bursary Fund established through the International Pyrotechnics Society. The Frank Carver Bursary Fund is a UK Charity which promotes advancement in the scientific understanding of energetic materials by assisting young pyrotechnicians to attend and present their work at international seminars being sponsored/sanctioned by the International Pyrotechnics Society.

The award will be £1200 Sterling equivalent. The amount is usually sufficient to cover travel expenses or Seminar fees. To be eligible for the award, the recipient must be less than 40 years of age, from outside of North America, and must orally present the paper at the Seminar. Persons who wish to be considered for the award should notify their intention to the International and Technical Steering Committees of the Seminar (Trevor Griffiths at [tgriffiths.ips@gmail.com](mailto:tgriffiths.ips@gmail.com)) and submit their written paper at least six months (January 14, 2024) before the date of the Seminar.

The winner will be selected from among the group of applicants for the award. See [www.intpyrosoc.org/frank-carver-bursary/](http://www.intpyrosoc.org/frank-carver-bursary/) for details of the rules. Applicants for the award must submit a completed application, plus all required materials to [lcrouseipsusaseminars@gmail.com](mailto:lcrouseipsusaseminars@gmail.com) by January 14, 2024. Applicants will be notified of the decision on the award by February 15, 2024.

## Seminar Steering Committee IPSUSA Seminars, Inc. Officers

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**Ms. Cathleen Freeman**

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## Further Information

As information about the Seminar becomes available, it will be posted on the website at <http://www.ipsusa-seminars.org>.

Copies of proceedings from previous Seminars held in the US are available in book and CD form for sale at <http://www.ipsusa-seminars.org/publications/>.

## Registration

Registration and Abstracts will be handled through the Seminar Coordinator:

**Linda Crouse**

IPSUSA 2024 Seminar Coordinator

Phone: 303.601.8550 ♦ Fax: 303.904.3965

E-mail: [lcrouseipsusaseminars@gmail.com](mailto:lcrouseipsusaseminars@gmail.com)

Questions about details for registration and other arrangements may be directed to her.