

## First Announcement

# The 45<sup>th</sup> International Pyrotechnics Society Seminar



will be held at the DoubleTree by Hilton Hotel,  
Colorado Springs, Colorado, USA

**July 10 - 15, 2022**



(Hosted by IPSUSA Seminars, Inc. in cooperation with the International Pyrotechnics Society)

## Colorado Springs, Colorado

The DoubleTree by Hilton Hotel, Colorado Springs, (<https://www.hilton.com/en/hotels/cosp-dt-doubletree-colorado-springs/>) is located at 1775 East Cheyenne Mountain Blvd., in Colorado Springs, Colorado. Enjoy easy access to an array of unique shopping, dining, and entertainment venues. Located minutes from I-25, the DoubleTree also offers a complimentary shuttle to the Colorado Springs Airport (which is only eight miles away). The DoubleTree is within walking distance of restaurants, movie theaters, and shopping plazas. Located just two blocks from the World Arena Event Center, the DoubleTree offers scenic Colorado Rocky Mountain views in a convenient location and is only three miles from the historic downtown business and dining district. Admire views of the world's second most visited mountain, Pikes Peak, less than 15 minutes from the hotel in Manitou Springs. Visit the Cheyenne Mountain Zoo which houses 550 animals on 146 acres of land. Explore Garden of the Gods, a natural national Colorado landmark. Watch the water tumble 181 feet down a granite cliff at Seven Falls or discover architectural remnants of an American Indian culture at Manitou Cliff Dwellings.

## Seminar Topics

Subjects of interest for this Seminar include pyrotechnics, propellants and explosives, 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 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.
- Synthesis of explosive, propellant, and pyrotechnic ingredients
- Formulation of explosive, propellant, and pyrotechnic 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 for Papers and Posters

An official Call for Papers will follow this First Announcement in June. Abstracts for Papers and Posters may be submitted for inclusion in the Seminar at any time up to January 18, 2022 and should be no more than 500 words in length. You may indicate your preference for presentation in either the oral or poster sessions. Full manuscripts from both oral and poster types of presentations will be included in the Proceedings. However, poster presentations only require a one to three-page summary of the work being presented.

Guidelines on how to prepare the abstracts, manuscripts for publication, and presentations will be published on the <http://www.ipsusa-seminars.org> website and will also be sent to the authors/presenters. Selection of the papers to be given at the Seminar will be made in February 2022, and a list of papers for oral and poster presentation will be posted on the website before the Seminar. The Proceedings of the Seminar will be published as a CD or USB thumb-drive. CDs or thumb-drives will be distributed at the beginning of the Seminar.

## Special Events

Some of the special events being planned include an informal Reception on Sunday evening with ample food, a casual get-together Mixer/Picnic on Monday night with Karaoke, and a special outing to the Cheyenne Mountain Zoo for giraffe-feeding, animal-watching, and dinner on Thursday evening.

## Registration

Registration and abstracts will all be handled through the Seminar Coordinator:

Linda Crouse – IPSUSA 2022 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.

## Further Information

Mr. Christopher Csernica of U.S. Army CCDC Armaments Center, [christopher.m.csernica.civ@mail.mil](mailto:christopher.m.csernica.civ@mail.mil) and Dr. Zachary Doorenbos of Lawrence Livermore National Laboratory, [doorenbos1@llnl.gov](mailto:doorenbos1@llnl.gov) will chair this Seminar. As more information about the Seminar becomes available, it will be posted on the website at <http://www.ipsusa-seminars.org>.

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

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## Let Us Know

We would be pleased to hear of your interest or intention in regard to attendance and presentation of a paper and/or poster. There is no obligation, and no payment is required at this time.