



14th International High Energy Materials Conference & Exhibits

"Expedition towards excellence in energetics"

1st to 3rd February 2024, Thiruvananthapuram

The Conference

In the last twenty years, research and application in the field of High Energy Materials (HEM) have advanced significantly. This has been due to several factors including new operational requirements, advances in complementary domains, availability of new materials and new assessment and modeling techniques. These advances permit more effective use of high energy materials and detailed understanding of the processes involved.

High Energy Materials Society of India has been organizing international conferences at various places in India, to deliberate on the developments in HEM since 1998. The 14th International High Energy Materials Conference and Exhibits (HEMCE 2024) will provide yet another forum to discuss, interact, share and exchange knowledge, ideas and expertise in the field of HEM. The conference will emerge as a congregation of academicians, researchers, professionals and industry leaders working in the domain of HEM. The conference will also showcase state of the art methods, services, products and devices.

Focus areas

- Synthesis, characterization, testing and kinetics of HEMs
- Advanced trends in HEMs: Green, Nano energetic materials, Energetic Metal Organic frameworks (EMOFs), Energetic co-crystals, HEDOs, highly regressive fuels/additives etc.
- Advances in commercial/military explosives and related developments
- Combustion, propellants, propulsion and ancillary technologies
- Gun propellants and propulsion systems
- Development of new explosive devices, technologies & systems
- New propulsion concepts using HEMs
- Technology disruptions in R&D of HEMs
- High Energy Materials and systems for human spaceflight
- Modeling, simulation, AI & ML in HEMs
- Detonics & shock loading of materials
- Blast effects and mitigation techniques
- Manufacturing, processing and scale up - advanced methods
- Quality control, lessons learnt & life time demonstration of HEMs
- Advanced explosive detection and experimental techniques
- Explosive Safety, transportation, disposal techniques & regulations

Patrons

Shri. S. Somanath

Chairman, ISRO and Secretary, Dept. of Space – Chief Patron

Dr. Sameer V Kamath

Chairman, DRDO and Secretary, Dept. of Defence R&D

Registration Fees (including GST)

Participating delegates	Rs 10000 (foreign delegates USD 450)
Life members of HEMSI	Rs 8000
Students	Rs 3000 (foreign students USD 200)

Sponsorship details

Platinum: Rs. 10 Lakhs + GST

Privileges: 20 minutes' business presentation, 2 full page advertisement in souvenir, one exhibition hall, logo & branding display in stage/website
10 free delegate registration

Gold: Rs. 5 Lakhs + GST

Privileges: One full page advertisement in souvenir, one exhibition hall, logo display in website and branding display at the conference hall, 5 free delegate registration

Silver: Rs. 3 Lakhs + GST

Privileges: One full page advertisement in souvenir, logo display in website and branding display at the conference hall, 3 free delegate registration

Souvenir advertisements

Cover inside full page - Rs 150000, Full page - Rs 80000, Half Page - Rs 50000

Exhibition

Rs 100000 per Stall (3 x 2m A/C)

Important Dates

First Announcement	June 10, 2023
Registration begins	June 15, 2023
Submission of ext. abstract	August 30, 2023

Acceptance of abstracts	September 30, 2023
Submission of full paper	November 15, 2023
Registration closes	January 15, 2024



Organised by
HEMSI Thiruvananthapuram Chapter

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