

Tentative Topics to be covered

Formulation and Characterizations of Explosive and Propellant

- Synthesis
- Chemistry
- Engineering
- Characterization

Manufacturing Technology for Explosive and Propellant

- Computer graphics and interactive techniques
- Data processing and analysis
- Modelling and simulation

Kinetics of Combustion of Explosive and Propellant

- Physical, chemical and thermodynamic analysis
- Heat and mass balance
- Sensors used for analysis

Logistics & Transport of Explosive and Propellant

- Advanced technology solutions

Environmental and safety aspect of Explosive and Propellant

- The impact of climate change
- Gas explosion hazards
- Environment testing
- Water disposal and reuse
- Safety

Development of Arms and Ammunitions & other

Applications of Explosive and Propellants

And other related topics

Industrial Visits

There will be minimum three industrial visits of the related Govt. or private manufacturing process organizations or chemical industries of in and around

Scope and Objective of Workshop

In continuation as 6th annual event, the workshop will provide a unique platform for the interaction amongst the eminent researchers, industry persons, and officers from explosive and propellant organizations of interdisciplinary nature from both academia and industry under one roof to discuss and share the state of the art developments in various explosives, chemicals and other related aspects. Chemical engineers play the vital role in explosive and propellants sector; they have been working in various Indian Government Organizations such as Indian Ordnance Factories, DRDO, BARC etc. and other private industries deals with explosive and propellant with responsibilities towards the development of various innovative explosives, propellants, materials and designs of various arms and ammunition. The theme has been selected to accommodate a wide range of interests to facilitate interaction among various chemical engineers and interdisciplinary persons working in various academic institutes, research organization and government and private offices. In addition to various keynote addresses, expert lectures and invited talks, industrial visits will also be arranged

Registration fees:

For DRDO/OF personnel/IICHe Member : NIL
For UG/PG/Research Scholars : Rs. 1000
For Others : Rs. 1500
Lodging/Boarding charges will be extra @ 400/- per day per head in hostels / @ 1200/- per twin room in Guest House if available and booked in advance.

Contact Persons

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6th National WORKSHOP

ADVANCES IN EXPLOSIVE AND PROPELLANTS (AEP – 2023)

March 13-17, 2023

In Association with
DRDO



IICHe, Nagpur Regional Centre

Dr. G K Ghosal
Chairman



Dr. A.N. Vaidya
Vice-Chairman

Convener
Dr. Diwakar Z. Shende
Dr. G.K. Ghosal

Coordinators
Dr. Kailas L. Wasewar
Dr. Mahesh N. Varma

Department of Chemical Engineering

Visvesvaraya National Institute of Technology, Nagpur - 440010

About Nagpur and the VNIT

The city of Nagpur popularly known as Orange City is located at the geographic center of India and is among top five green cities of India. It is the second capital of Maharashtra state. The city is well connected to other parts of country by Train/ Bus & Air.

Visvesvaraya National Institute of Technology (Deemed University) is named in the memory of Bharat Ratna Shri Mokshgundam Visvesvaraya, the celebrated Civil Engineer-Planner-Statesman of the country. The VNIT is established in June 1960 as Regional College of Engineering. It has a beautiful campus of 214 acres near Ambazari Lake. The Institute has adequate number of highly qualified and trained faculty of national and international repute and proven capabilities of higher caliber in various disciplines. The Institute offers Under-Graduate and Post-Graduate level courses in various disciplines of Engineering and Ph. D. Programme in Science and Engineering.

About Department

The Chemical Engg. Dept. is one of the premier engineering and youngest departments of VNIT NAGPUR which was started in 2006. At present the department is going with full strength towards bright future with strength of 18 full time faculty, 480 UG students, and more than 30 PhD scholars. It is a dynamic and goal oriented group of highly qualified and experienced faculty supported by technical staff, equipped with eight UG laboratory and modern research and development infrastructure like, HPLC, GC, GCMS, UV-Vis, FTIR, PSA, BET surface area, TGDTA and XRF. Department has undergoing and completed many R&D projects from various organizations like DST, DBT, CSIR, BARC, industries etc.

About IChE, Nagpur Regional Centre

IChE, Nagpur Regional Centre was established in 1986 under the leadership of Late Dr. G.D. Nageshwar and able guidance of Dr. G.K. Ghosal as Founder Honorary Secretary.

IChE, Nagpur Regional Centre organized 8-10 National Seminars, many industrial visits and many technical lectures. It has four Students' Chapters namely; IChE Student Chapter, LIT Nagpur; IChE Student Chapter, VNIT Nagpur; IChE Student Chapter, PCEA Nagpur and IChE Student Chapter, NIT Raipur.

CHIEF PATRON

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Fellow, IChE

Dr. G.K. Ghosal, Chairman, IChE, Nagpur Regional Centre

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Shri Arvind Kumar, HEMRL (DRDO), Pune

Dr. Shrikant Pande, Joint Director, HEMRL (DRDO), Pune

Shri. P.K. Adak, Deputy Director, HEMRL, Pune

Shri. Ajai Nigam, Ex-CoE, PESO

Shri. Rahul Guha, Former - R & D Consultant, SIIL (Explosive)

Shri. A.K. Shrivastava, SIIL (GM Production), Nagpur

Shri. A.K. Jain, Executive Director, SIIL, Nagpur

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Dr. Vijayakumar R.P., Associate Professor, VNIT

Convener

Dr. D. Z. Shende (Jt. Secretary, IChE NRC), Asso. Professor

Dr. G.K. Ghosal (Chairman IChE, NRC), Former HoD, Petro. Tech., LIT, Former R & D Consultant, SIIL (Explosive), Nagpur

Coordinators

Professor Kailas L. Wasewar (Secretary. IChE, NRC)

Professor M. N. Varma

Important Dates : Last date of Registration : March 10, 2023
Workshop Date: March 13-17, 2023

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY,

NAGPUR-440 010

6th National Workshop

On

Advances in Explosive and Propellants

(AEP – 2023)

In Association with

DRDO

&

IChE, Nagpur Regional Centre

March 13-17, 2023

REGISTRATION FORM

Name: _____

Designation: _____

Affiliation: _____

Address: _____

Telephone No. (with code): _____

Mobile No.: _____

E-mail ID: _____

Particulars of Registration Fees

Amount _____ Cash/DD/ Cheque No. _____

(DD/Cheque should be payable in favor of Director, VNIT Nagpur)

Date _____ Bank _____

Date: _____ Signature of Applicant

Forwarded by Head of Institute / Department