



Indian Analytical Congress-2024

IAC-2024 (3rd Edition)



(An International Analytical Conference and Exhibition)



Theme: Role of Science & Technology in Green Transitions
June 05-07, 2024

Call for Abstracts and Exhibition

Venue: CSIR-IIP, Dehradun, Uttarakhand (India)

Jointly Organized by
Indian Society of Analytical Scientists (ISAS)- Delhi Chapter, and
CSIR-Indian Institute of Petroleum, Dehradun



Conference Invitation

Dear Attendees,

3rd Edition of an International Conference and Exhibition invites participants from all over the world to attend "Indian Analytical Congress" during June, 2024 in CSIR-IIP Dehradun, India, which includes; keynote & invited presentations, Oral & Poster sessions and Exhibitions covering latest developments in the field of analytical sciences. IAC-2024 aims to provide a forum for researchers from academia and industry working in the areas of chemical & petrochemicals, drug & pharmaceutical, Food & Agricultural and Environmental etc. to share latest cutting-edge research findings and results of various aspects of Analytical Science.

The conference showcase the research works of Analytical Science expertise from various scientific backgrounds, Industry and the same can be perceived by young researchers and students. It is opportunity to join the international community in your field of interest and experience and explore Dehradun, Mussoorie and incredible India.

The conference will be highlighting the theme “Role of Science & Technology in Green Transitions”.

**Sincerely,
Indian Analytical Congress-2024
Organizing Committee**

About the Theme

India is at the cusp of an energy transition, which is stated to be a low carbon green transition to reach net zero emissions by 2070 and this has set the agenda for the Indian Industry for next 5-decades. To meet fifty percent of its electricity requirements from renewable energy sources by 2030 is a hugely significant moment for the global fight against climate change. India remains a energy hungry country i.e. India Needs More Energy... but with Less Carbon in order to meet the stated goal of Net Zero by 2070. India is in a unique position due to robust projected growth and strong financials to contribute towards achieving Net Zero goals for which multiple technological options need to be adopted at an unprecedented scale.

Some of these are; adopting green & sustainable processes, bio-refineries producing Sustainable Aviation Fuels (SAF), bio-based chemicals & plastics, Gas-based Economy, Waste to Energy and Bioenergy (1G, 2G & 3G Technologies Ethanol technologies), Compressed Biogas (CBG), Plastic Circularity & Neutrality, Carbon Capture, Storage and Utilization (CCSU), Renewable Power & Clean Cooking Fuels, Hydrogen and Fuel Cell – Production technologies with much reduced cost of production, Green Hydrogen, Electric Mobility, Material & Energy Efficiency, Digitalization, etc.

Affordable and Clean Energy goals can be met through the development of new materials for renewable energy, being more energy efficient in the chemical processing industries, and by developing advancing cleaner fuel technologies. A major issue with renewable energy production is the use of scarce and/or hazardous materials for solar and wind conversion, and energy storage. Chemical researchers are working on the development of Earth-abundant advanced materials for renewable energy production, including photovoltaics, wind turbines, thermal energy collection, batteries, supercapacitors and energy storage solutions. The chemical processing industries can improve manufacturing efficiency through new catalysts, optimized process design, new separations processes, developing low carbon green processes & technologies.

In this journey of green transition, advanced Analytical tools shall play a significant role to pursue this mission through advanced technology solutions. Whether it is measurements of water, air, refuse, soil and sludge to safeguard the environment, or deep characterisation of new materials and catalysts, or new materials to be implemented in commercial devices, degradation mechanisms etc, a detailed understanding of their underlying chemistry and structure is required. The IAC-2024 intends to share latest developments and research achievements in the above domains by utilising advanced characterization techniques such as x-ray diffraction (XRD), x-ray absorption spectroscopy (XAS), tunneling electron microscopy (TEM), NMR, Mass spectrometry, electro-analytical techniques, ICP-MS, GC-MS, and other traditional analytical tools, that can help reveal important properties thru characterization of local structures in much finer details.

Target domains in IAC-2024

- ❖ *Energy and Energy Devices (EED)*
- ❖ *Chemicals & Petrochemicals*
- ❖ *Bio-based chemicals & Polymers*
- ❖ *Bioenergy*
- ❖ *Drug & Pharmaceutical s*
- ❖ *Life Sciences & Natural products*
- ❖ *Agricultural & Food*
- ❖ *Environmental & Forest*
- ❖ *Material Science and Catalysis*
- ❖ *Biotechnology*
- ❖ *Nanotechnology*
- ❖ *Forensic science*
- ❖ *Geology*
- ❖ *Any other relevant domain*

- ❖ *Spectroscopic Techniques (NMR, MS, GC-MS etc)*
- ❖ *Chromatographic Techniques (GC, HPLC, LC-MS, etc)*
- ❖ *X-ray Techniques*
- ❖ *Microscopy & Imaging Techniques*
- ❖ *Atomic Spectroscopy*
- ❖ *Surface characterization Techniques*
- ❖ *Thermal Analytical Techniques*
- ❖ *Hyphenated Techniques*
- ❖ *Lab furniture*
- ❖ *Analytical & Lab equipments*

IAC-2024 EVENT COMPONENTS

- *Conference*
- *Exhibition*
- *Scientific & Technical Sessions*
- *Poster Presentations*
- *Awards for best paper /Poster presentation*

Technical Sessions

- *Keynote Lectures*
- *Invited Lectures*
- *Oral Sessions*
- *Poster Sessions*

Call for Abstracts

Researchers from all the domains of analytical sciences and energy transition are encouraged to submit a short Abstract (1 page maximum, without figures/tables) for Oral / Poster sessions.

The abstracts may be submitted by below link:

https://docs.google.com/forms/d/e/1FAIpQLSeFHULJX7hoD3UIRxsIGLsVL08wYLebyOS5HGb48hsr4LCWgw/viewform?vc=0&c=0&w=1&flr=0&usp=mail_form_link

In case of any problem with the google form, please send the abstract via email to:

Email: kumarr88@indianoil.in

Poster Competition:

IAC welcome all the young researchers from academia and industry and students to present research work in the Poster Sessions.

This competition is open to all including students (Graduates, Post Graduates & Research Scholars) and faculties.

Best posters awards will be given to the winners selected by an independent jury, and will comprise a Certificate, and Cash Award.

Registration Fee

<i>Student & Research Scholars</i>	<i>: Rs. 2000/-</i>
<i>Academia</i>	<i>: Rs. 2500/-</i>
<i>Industry</i>	<i>: Rs. 4000/-</i>
<i>Foreign Delegates</i>	<i>: USD 100</i>

Note : Rs. 500 discount to Life members of ISAS-DC



IAC-2024 EXHIBITION

INDIA ANALYTICAL CONGRESS – International Exhibition & Conference on Analytical Industry, proposed to be spread over three days, aims to provide a common forum for Analytical Scientists to exchange ideas, keep themselves abreast of the latest developments in this field, thus promoting the growth of analytical sciences in the country.

PRODUCT CATEGORY:

- *Analytical Instruments,*
- *Laboratory Technologies*
- *Laboratory Automations*
- *Laboratory Information Management Systems*



Conference Venue

CSIR-IIP, Dehradun, Uttarakhand, India

Important Dates

Abstract Submission: : April 30, 2024

Acceptance of paper : May 15, 2024

Registration : May 15, 2024

Accommodation:

Limited accommodation will be available in the Guest houses near the venue, on payment basis, on first-cum-first-serve basis.

Organizers will also negotiate special rates with the nearby hotels, details of which shall be shared in the subsequent circulars.

Book your slots in this exciting event now!

Register for the conference at and submit your abstracts at below link:

https://docs.google.com/forms/d/e/1FAIpQLSeFHULJX7hoD3UIRxSIGLsVL08wYLebyOS5HGb48hsr4LCWgw/viewform?vc=0&c=0&w=1&flr=0&usp=mail_form_link

In case of any problem with the google form, please send the abstract via email to: kumarr88@indianoil.in

Send queries about Exhibition & sponsorship to: singhdheer@indianoil.in (Dr Dheer Singh)



About Indian Society of Analytical Scientists- Delhi Chapter

Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC) with its head Office at Indian Oil Corporation Ltd R&D Centre, Faridabad is a multi-disciplinary body whose major functions are to organize Symposiums/ workshops on various topics on analytical sciences relevant to academics and industry. ISAS provides a common forum for Analytical Scientists to exchange ideas, keep themselves abreast of the latest developments in this field, thus promoting the growth of analytical sciences in the country. www.isasdelhi.org

About CSIR-Indian Institute of Petroleum

CSIR-Indian Institute of Petroleum (IIP), an ISO 9001 (2015) accredited organization, was established in 1960, by Govt. of India, as one of the constituent laboratories under Council of Scientific & Industrial Research (CSIR). It is a premier National Laboratory engaged in Research and Development activities of Petroleum Industry. Its charter includes functions, amongst others, to undertake R&D work in petroleum refining, petrochemicals and sustainable fuels; utilization of petroleum products in IC engines and in industrial & domestic combustion; to provide technical and analytical services to petroleum refining & related industry including technology transfer; to develop human resources for the hydrocarbon and related industries by training their personnel through specialized training courses and assisting the Bureau of Indian Standards (BIS) in formulating standards for petroleum products equipments and devices using these products. Over the years, CSIR-IIP has developed several Technologies/Processes/Products, a large number of them commercialized. www.iip.res.in

City Attractions Don't miss them in Dehradun



For Participation, please Contacts



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