

Analytical sciences have everything to do with measuring concentrations in complex samples and this is not restricted to chemical samples, but also biological and environmental samples are of considerable interest. Each sample has its own problems and specific techniques are required to analyze its content and/or solve structural complexities associated with a system. The analytical chemist of today is faced with a broad range of ever changing demands. The challenges posed by these demands require the analytical chemist to be well versed in a diverse range of scientific areas. Many of these challenges require the use of traditional as well sophisticated analytical techniques such as UV-Visible, vibrational spectroscopy (IR, Raman), NMR spectroscopy (liquid and solid state), Mass spectroscopy, AAS, ICAP, XRD, ESCA, separation sciences (HC, LC, GPC etc), and thermal analytical techniques. Today, we see these techniques being applied in such diverse fields as life sciences, natural product analysis, forensic science, quality assurance, drug discovery, petroleum/petrochemicals, geological sciences, process controls, occupational exposure science and nano-technology. It is the many diverse facets of analytical chemistry that allow it to play such an integral role in addressing today's numerous scientific challenges. Additionally, it serves to enable the development of future breakthroughs that will enhance the broad scientific field in the 21st century and beyond.

With an aim to bring together the diverse aspects of analytical sciences in order to solve the practical problems in varied areas of research, a 3-days National Symposium with the theme **“Recent Advances in Analytical Sciences”** is being organized from **April 12- 14, 2010 at University Auditorium, Himachal Pradesh University, Summer Hills, SHIMLA**. The symposium is being organized jointly by the Indian Society of Analytical Scientists (ISAS) -Delhi Chapter and the Department of Chemistry, Himachal Pradesh University, Shimla.

Scope of the Symposium and Call for Abstracts

The National symposium endeavors to provide a platform to deliberate on various issues in the frontier areas of analytical sciences. Building upon the theme, the Symposium will emphasize coupling the latest developments in analytical sciences with diverse applications in various fields of chemical, biological and allied sciences. Through the symposium, the organizers aim to share the latest excitement in different analytical techniques with the scientists in academia, industry, National laboratories, teachers and students.

The technical programme of the symposium will include both invited lectures, oral and poster presentations. Many eminent scientists will deliver lectures highlighting latest advancement in different analytical techniques and their applications. The organizing Committee of the Symposium takes pleasure in inviting scientists and researchers working in the following listed areas of analytical sciences and those utilizing various analytical techniques for solving their research problems, to participate and present a paper in the above symposium. Young researchers and students are specifically encouraged to present their research findings in the symposium by way of oral/poster presentations.

Major Areas of Technical Deliberations:

- Atomic Spectroscopy -Inductively Coupled Argon Plasma (ICAP), Atomic Absorption Spectroscopy (Flame-AAS, GF -AAS)
- Chromatography Techniques –(Gas Chromatography, High Performance Liquid Chromatography, Gel Permeation Chromatography, Super Critical Fluid Chromatography)

- FTIR, FTNIR & Raman Spectroscopy
- NMR (Liquid & solid), EPR
- Surface Characterization techniques, XPS, AES
- Mossbauer spectroscopy
- Light Scattering techniques
- Mass spectrometry (EIMS, FIMS, FDMS, FAB, CIMS, MALDI)
- Electro-analytical techniques
- Bio-analytical techniques
- Microscopy & Imaging Techniques (SEM, TEM, AFM)
- Thermal Analytical Techniques (TGA, DSC, DTA, DMA)
- UV-Visible, Fluorescence Spectroscopy
- Hyphenated Techniques: GC-MS, GC-IR, ICP-MS, ICP-AES, LC-NMR
- X-Ray Diffraction (XRD)
- X-Ray Fluorescence (XRF)
- Radio Analytical Techniques
- Solid & Liquid Extraction Techniques
- Metrological issues

The applications of above techniques in the following fields of research would be discussed:

- Pharmaceutical/Medicinal/Life Sciences Research
- Proteomics, Enzymes
- Natural Products
- Natural and Synthetic Polymers
- Nanomaterials
- Genetic Screening / Diagnostics
- Fossil Fuels
- Catalysts and Materials
- Environmental Studies
- Food products and Agriculture sciences
- Geological Sciences
- Forensic Sciences
- Process Analysis and Chemometrics

All participants interested in presenting a scientific paper in the symposium are required to submit a one-page abstract of their paper (without figures, tables & references) as per the format give below.

All abstracts must be submitted via e-mail (kapurgs@iocl.co.in) as a MS-WORD DOC file. The last date of submitting the abstracts is 5th March 2010.

The acceptance of the papers as oral or poster will be communicated by 15th March, 2010.

Format for Abstract

The abstracts should not exceed one A4 size page and to be submitted as per the prescribed format only. The Arial Narrow font to be used for submitting the abstract.

TITLE : 14 point, bold, Centered
AUTHORS : 11 point normal. Presenting author to underlined.
ADDRESS : 10 point normal
e-mail : **10point bold – This is mandatory**
TEXT : 11point normal

Best Poster Awards :

Each poster shall be evaluated by a panel of eminent scientists and selected outstanding posters will be presented the Best Poster Award

About the Organizers

The symposium is being organized jointly by the Indian Society of Analytical Scientists (ISAS) -Delhi Chapter and the Department of Chemistry, Himachal Pradesh University, Shimla.

Indian Society of Analytical Scientists (ISAS) is a very active scientific forum with its headquarters at BARC, Mumbai and has more than 2000 life members. The society provides a common platform for analytical Scientists to exchange ideas, keep themselves abreast of the latest developments in this field, thus promoting growth of analytical sciences in the country. The Delhi Chapter of ISAS was established in 1992 with its headquarter at IndianOil R&D Centre Faridabad having jurisdiction comprising of mainly northern part of India. Delhi Chapter itself has more than 1000 life members from various research institutes, national laboratories, universities, industries etc. Since its inception, Delhi Chapter has done exceedingly well meeting the aspiration of its members and has been adjudged twice as the Best Chapter by the parent body. The Chapter has in the past organized more than 35 One/two/three-Days technical Seminars/symposia on various contemporary topics at diverse locations.

The Department of Chemistry, Himachal Pradesh University, Shimla established in 1970 is one of the prestigious departments of the University, funded by DST-FIST and UGC-SAP, owing to its enviable track record of outstanding academic accomplishments. It has been playing a very vital role in promoting post-graduate teaching in Chemistry and research in the state. The department has progressed with the dedicated contributions of devoted Professors viz K.C. Malhotra, A.C. Jain, B. Misra, B.C. Verma, R.L. Blokhra, D.S. Gill, S.C. Sharma, C.S. Pande, R. Mahajan, V.K. Syal, and many others. The Department is privileged to have amongst its faculty members the positions of Vice-Chancellor, prestigious, Bhatnagar Awardee, Emeritus Scientists, Visiting Professor Humboldt, DAAD and UNESCO Fellows, Visiting fellows of foreign Universities and Institutions like NASA, Max Planck, CNRS and IM Prague.

Language

The official language of the symposium is English

Registration

The registration fee for the symposium would be:

ISAS Life Members	: Rs 1,000/-
Nonmembers	
Delegates (Academia)	: Rs 1600/-#
Delegates (Industry)	: Rs 3000/-
Research Scholars / Students	: Rs 600/-

inclusive of life membership

Please complete the registration form available at www.isasdelhi.org and send via email (kapurgs@iocl.co.in) by 15th March, 2010. Alternatively, hard copy of the registration form can also be used and sent by post.

We requested you to get the advance registration in order to avoid last minute disappointment, therefore, please submit the registration form along with fee amount payable by Demand Draft in favor of “Indian Society of Analytical Scientists – Delhi Chapter” by 15th March, 2010.

Accommodation

Accommodation charges are not included in the registration fee. However, limited accommodation may be made available for registered participants, on request, in the Guest Houses of Shimla University and nearby Institutes, budgetary hotels etc. The accommodation request will be processed on first-cum-first served basis. There is also a special provision of accommodation (on payment basis) for research scholars /students. The charges for accommodation (room/shared room only) will vary depending upon the category of accommodation available. The charges (per day) may vary from Rs 200-300/- for the Guest Houses and Rs 1000/- and above for the Hotel accommodation.

The request for accommodation must reach Dr. G.S Kapur, Secretary ISASDC latest by 15th March 2010. **NO accommodation request shall be entertained, if not accompanied by an advance of Rs 500/- (by DD), which shall later be adjusted against registration fee/final settlement of the bill.**

The Venue

Shimla, city also known as Queen of Hill Stations, is the capital of the state of Himachal Pradesh. The Himachal Pradesh University, founded in 1970, is located at Summer Hill, the Western end of Shimla at a distance of 5 Km. from the town and 5 minutes walk from the Summer Hill, Railway Station. The University occupies an area of 200 acres and has a distinctive style of architectural view. The artistically designed buildings house various teaching departments, well equipped laboratories and a large library.

Shimla is an all weather intercultural tourist place. Weather is moderate, yet unpredictable. The temperatures in the first week of April range from 15 to 20°C, hence moderate woolen are necessity. Away from the hectic pace of metropolitan life, Shimla retains its old world charm. While keeping pace with change and modernity, the town and its surroundings still manage to preserve much of their tranquility.



How to Reach Shimla

Shimla is well connected by National Highway No.22 and all weather road from Chandigarh, Mandi and Delhi. Regular buses, coaches and taxis ply on these ways. Shimla is approx. 370 Km. from Delhi. Shimla is connected by narrow gauge line with Kalka. Kalka is well connected with the rest of India by broad gauge line.

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Call for Papers



3rd NSAS



National Symposium

on

***Recent Advances in Analytical Sciences
and Applications***

**April 12-14, 2010
Himachal Pradesh University
Summer Hills, SHIMLA**

Organized by

**Indian Society of Analytical Scientists
-Delhi Chapter-
and
Department of Chemistry, Himachal
Pradesh University, Shimla**



www.isasdelhi.org