



**Vth NATIONAL SYMPOSIUM
ON
ADVANCES IN CHEMICAL
SCIENCES**

February 2nd-3rd, 2016



Organized By

**DEPARTMENT OF CHEMISTRY
CENTER FOR ADVANCED STUDIES
GURU NANAK DEV UNIVERSITY
AMRITSAR- 143 005 (PUNJAB),
INDIA**

**Sponsored by
University Grants Commission (UGC)
New Delhi
Supported by
Royal Society of Chemistry (RSC),
London (UK)**

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Secretariat
Department of Chemistry
Guru Nanak Dev University, Amritsar

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The Department of Chemistry is organizing its “Vth National Symposium on Advances in Chemical Sciences” on Feb. 2nd-3rd, 2016, under the aegis of **UGC-CAS**. The chemists are privileged to play a pivotal societal role in the development of new chemical entities for the well-being of human beings, both in terms of their better health (diagnostics, pharmaceuticals etc.) and also their better lifestyles (materials, devices etc.).

In the last two decades, the development of new materials viz., organo- and biocatalysts diagnostic and environmental monitoring devices, organic/inorganic materials for light emitting diodes and solar cells, nanomaterials, new drugs and drug delivery systems, gas storage systems and renewable energy sources etc. have provided new wings to the quality of life and shown new directions to future scientific developments.

During the two day symposium a number of the renowned scientists, from abroad and from within the country shall deliver lectures on the contemporary areas of research besides poster presentations by the young researchers. The deliberations will highlight the recent advances in chemical sciences and their usefulness in the allied branches of science. The Organizing Committee takes immense pleasure in inviting you and your colleagues to participate in the symposium.

About GNDU



GNDU Amritsar: *an aerial view of the green campus*

Guru Nanak Dev University was established on Nov. 24, 1969 to commemorate the 500th birth anniversary of Shri Guru Nanak Dev Ji, the founder of Sikh religion. Guru Nanak Dev University is one of the premier universities of the country, which was two times accredited with the 5 star (the highest level) accreditation among the universities in India by National

Assessment and Accreditation Council (NAAC), an autonomous institution of University Grants Commission. Recently, Guru Nanak Dev University has attained the highest status of University with Potential for Excellence (UPE) which is the highest status award by UGC. Apart from traditional areas of higher education, university has the reputation of promoting education and research in professional and technological fields, with the aim of creating human resources in the new but highly required areas in the country. In addition to academics, the University has the pride of winning the highest Inter-University National Sports Award of the country “Maulana Abdul Kalam Azad Trophy” (MAKA) for a record number of 22 times.



Stadium *Astroturf grounds for hockey*

About Department of Chemistry

The department of chemistry was established in 1971 and over a period of time it has emerged as one of the premier departments not only in the university but also has acquired a prestigious status at the national level. The department has been recognized as a **Center for Advanced Studies** by UGC. Department of Science and Technology has funded the department twice under its “Fund for Improvement of Science and Technology” (FIST) program.

The department offers courses of B.Sc. (Hons. School) in Chemistry, M. Sc. (Hons. School) in Chemistry, M. Sc. Chemistry and Ph. D. The semester system with credit based continuous evaluation is followed for teaching programmes. The research activities of the department focus on supramolecular chemistry, synthetic organic and inorganic chemistry, solid state chemistry, electrochemistry, material chemistry, medicinal chemistry surfactant chemistry, oils and fats, theoretical chemistry, thermodynamics, analytical chemistry etc., The research projects are funded to a

significant extent by agencies like CSIR, SERB, UGC, DST, DAE, DRDO and DBT.



Department of Chemistry: UGC's centre for advanced studies.

The role of the department in the development of chemical sciences is evident from a significant number of research papers published/being published in high impact international journals of repute.

The department has several state of the art instruments like, 300 MHz NMR, CCD-X-Ray Diffractometer, CHNS Analyser, HPLC, FTIR, UV-Vis, Fluorescence & Time Resolved Fluorescence Spectrophotometer, Thermal Gravimetric Analyzer, GLC, Mössbauer Spectrometer, HRMS, BET analyzer, SEM, VSM etc.

Several faculty members have exposure to foreign laboratories in the form of post doctoral fellows or visiting professor/ scientist. A number of faculty members are fellows of academies of national repute and also are recipients of research medals.

The department library has a collection of about 16,500 books. The department also regularly subscribes to 28 journals in addition to the e-journals available through UGC consortium. Several databases like Science Finder, Scopus and CSD are also subscribed.

Amritsar, the City of Nectar

Tradition traces Amritsar's origin from the prehistoric times as a place having in its womb an Amrit-Kund (Spring of Nectar) in the desolate area covered with wild growth. It was in the lot of Guru Ram Das, the fourth Guru of Sikhs, to discover it and build a big Sarovar (tank) on the site in AD 1564. Simultaneously, the foundation of a town was also laid. The construction of the tank and the town was completed in AD 1577. The town at first was called Chak Guru / Chak Guru Ram Das / Ram Das Pura, later on won its present appellation,

Amrit from the holy tank which had been a source of exhilaration to the Sikh community.

Guru Ram Das' successor, Guru Arjan Dev, continued the task of development of the town. He raised the Harmandir in the centre of the Holy tank, gave the Sikh community its sacred scripture (AdiGranth) and bound his followers in an organization.



Golden Temple: an epitome of faith and serenity

Guru Arjan Dev's successor, Guru Hargobind, adopted defensive measure in self-defense and decided to wear two swords, one symbolizing the spiritual and the other the temporal authority. He took his seat on the Akal Takhat (The Immortal Throne) and began to administer all the affairs of the Sikh community from here. With the ascendancy of Maharaja Ranjit Singh, Amritsar was ushered into its Golden Age. The city was conquered by the Maharaja in AD 1805. Under the lavish patronage of Maharaja Ranjit Singh, the Harmandir was given a marble face and golden look for which it has now earned the name of the Golden Temple.

Registration Fee

Registration **in advance** has to be taken by the delegates by completing the enclosed registration form and returning it (by post), along with payment by a Demand Draft, to the Conference Secretariat. Demand draft should be made in favor of "**The Chairman, National Symposium on Advances in Chemical Sciences**" payable at Amritsar, with name and address of the delegate clearly written on the back of the draft. Registration fee includes participation in symposium, conference material, book of abstracts, and all meals. Please fill in the attached Registration Form and send it before the deadline. Please photocopy the form if you require additional copies.

Conference Registration Fees

Category Fee

Industry	Rs. 2500
Faculty/Academic Institutes/National Labs	Rs 1500
Scholars /Students	Rs 1000

Abstract Submission

The participants are requested to submit the abstract(s) (maximum 250 words) of their papers, typed in MS Word, Times New Roman font, 12 point with single spacing on A4 size with 3 cm right and 5 cm left, 1.5 cm top and bottom margins through e-mail to the organizing secretary at nsacs16gndu@gmail.com as an attachment in MS Word format with above specifications. The name of the presenting author of the poster should be underlined. Poster size should be 1 meter x 1 meter in dimension.

Important Dates

Abstract submission (Last Date) January 10, 2016
Notification to Authors January 15, 2016

Accommodation

Hostel accommodation shall be available on the basis of first come first serve

Hotel accommodation on payment basis is also available. Those who prefer to stay in hotels can contact directly or send their request in advance as per details given below so that booking can be made well in time.

Request for accommodation

To

Dr. Parambir Singh Malhi (M) 9780580753
Dr. Venus Singh Mithun (M) 8284812812
Department of Chemistry
Guru Nanak Dev University, Amritsar-143005

REGISTRATION FORM Vth NATIONAL SYMPOSIUM ON Advances in Chemical Sciences (2nd-3rd February, 2016)

Guru Nanak Dev University
Amritsar-143 005 (India)

Name: _____

Address: _____

City _____ Pin _____

Telephone _____

Mobile _____

Fax _____

E-mail _____

Name of accompanying person/s if any

Category:

Academic Institutes/ National Labs

Research Scholar/Students

Submitting Abstract

Yes No

Encl: Demand Draft no. _____ drawn on

For Rs. _____ in
favor of **The Chairman, National
Symposium on "Advances in Chemical
Sciences"** payable at Amritsar.

Signature: _____

Date _____

Website: www.gndu.ac.in

E- Mail: nsacs16gndu@gmail.com