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Vice-Chancellor,
Guru Nanak Dev University,
Amritsar

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Convener:

Dr. R. Vijaya Anand, IISER Mohali

Co-convener:

Dr. Vandana Bhalla, GNDU

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E-mail Id:

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Location

Online Interactive Session

Conference Website

<http://online.gndu.ac.in/ChemSymposia2022/>

Organized by
Department of Chemistry
(UGC Centre of Advanced Study)
GURU NANAK DEV UNIVERSITY
AMRITSAR-143005 (Pb) India

Co-organized by
Chemical Research Society of India
(Local Chapter Chandigarh/Amritsar)

International Symposium
on
**“Recent Advances in Self-assembled
Materials and Supramolecular
Chemistry”**
to
**Celebrate the 60th Birthday of
Prof. Manoj Kumar**

March 19, 2022



Topics for the symposium

1. Self-assembled materials
2. Chemical, biological sensors and their diagnostic applications
3. Supramolecular aspects in catalysis



International Symposium
on
Recent Advances in Self-assembled Materials and Supramolecular Chemistry

The Department of Chemistry is organizing International Symposium on “Recent Advances in Self-assembled Materials and Supramolecular Chemistry” during March 19, 2022, to celebrate 60th birthday of Prof Manoj Kumar. The chemists have a role to play in every aspect of life; they design new molecular entities to facilitate the mankind in terms of better health (both diagnostics as well as new drugs) as well as better life style (novel materials and devices). During the one day symposium a number of 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 supramolecular chemistry and material chemistry. The Organizing Committee takes immense pleasure in inviting you and your colleagues to participate in the symposium.

About Guru Nanak Dev University



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) Bangalore. 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 23 times.



Stadium (AstroTurf ground 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 **Centre of Advanced Study** by UGC for Supramolecular Chemistry and Materials for Devices. The Department of Science and Technology has funded the department twice under its "Funds for improvement of S & T Infrastructure in Universities and Higher Educational Institutions (FIST)"

The department offers five years integrated course in M.Sc. Chemistry under honours school scheme, M. Sc. Chemistry, M. Sc. (Pharmaceuticals), B. Tech (Textile processing) and Ph. D in frontline areas of chemical science. The semester system with credit based evaluation and grading system is followed for teaching programmes. The research activities of the department focus on supramolecular chemistry, synthetic organic and inorganic chemistry, biological chemistry, chemistry of ionic liquids electrochemistry, material chemistry, medicinal chemistry surfactant chemistry, oils and fats chemistry, chemists, theoretical chemistry, thermodynamics, analytical chemistry etc. The research projects are funded to a significant extent by agencies like CSIR, SERB, UGC, DST, DRDO, DAE and DBT.





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Department of Chemistry: UGC centre of advanced study.

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 state of the art instruments like, 300, 400 and 500 MHz NMR Spectrometers, CCD-X-ray Diffractometer, HPLC, FTIR, UV-Vis, Fluorescence & Time Resolved Fluorescence Spectrometers, Thermal Gravimetric Analyzer, GLC, HRMS, BET analyzer, SEM, VSM, AFM, Peptide Synthesizer, Loop tracer, Electrochemical Work Station, Microwave Synthesizer, DSC, Tensiometer, Polarized Optical Microscope (POM), Powder X-ray diffractometer, Density Sound Velocity Analyzer, Polarimeter, DLS-Zeta Seizer, Impedance Analyzer, Isothermal Titration Microcalorimeter, Cyclic Voltammeter, Resistivity meter, FPLC, AFM.

Several faculty members of the department have exposure to foreign laboratories in the form of post doctoral fellows or as visiting professors / scientists. A number of faculty members are fellows of academies of national repute and are also recipients of research medals from different research societies of India.

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

The City of Amritsar

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's 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 (Adi Granth) 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.

About Prof. Manoj Kumar

After his B.Sc from Hindu College, Amritsar and M.Sc from Khalsa College, Amritsar, Manoj Kumar received his Ph.D from Department of Chemistry, Guru Nanak Dev University, Amritsar with Prof Harjit Singh. Following a postdoctoral stay at Instituto de Quimica Medica, Spain, he joined Department of Chemistry, Guru Nanak Dev University, Amritsar as faculty member in 1993. Currently, he is working as Professor at the Department of Chemistry, Guru Nanak Dev University, Amritsar. Prof. Manoj Kumar has made significant contributions in the area of organic/physical-organic chemistry. His research interests include molecular recognition and imaging of small





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biologically significant molecules/ions, and development of novel catalytic/photocatalytic systems for carrying out various organic transformations under 'green' conditions. He has reported a number of molecular logic gates, molecular devices and molecular keypad locks having potential applications in the design and development of molecular electronic and photonic devices for information, processing, sensing and computation. He has published more than 210 research papers in international journals of repute and has supervised 16 students for their Ph.D. He has received several honors and awards including Bronze medal for his contributions in Chemical Sciences by CRSI, Bangalore in 2011. He is elected fellow of Indian Academy of Sciences (FASc). In 2021, he made it to the list of top 2% scientists worldwide in ranking published by Stanford University in collaboration with the publishing house Elsevier and SciTech strategies. He is also greatly interested in chemical education and is a regular participant in various programs for high school and undergraduate students.

List of speakers:

Juyoung Yoon	Korea
Jong Seung Kim	Korea
Amitava Das	India
Parameshwar K. Iyer	India
M. Sankar	India
J. Govindasamy	India
Reji Varghese	India
Sanchita Sengupta	India

Registration Link

The participants are required to complete online registration.

Link: <http://online.gndu.ac.in/ChemSymposia2022/>

Abstract Submission

All the participants may submit an abstract of their original research work for lecture /poster. The Information regarding abstract template, mode of submission, poster size etc. is available at the symposium website.

Best Poster Awards

Posters will be awarded under two categories:

Category I. Doctoral Students

Category II. Master/Undergraduate Students

Important Dates

Date of Registration starts from

February 5, 2022

Last Date of Abstract Submission

March 5, 2022

Notification to Authors

March 10, 2022

