

# 13<sup>TH</sup> in SERIES AND 1<sup>ST</sup> INTERNATIONAL CONFERENCE

## on Recent Advances in Chemistry CRAC - 2023

February 23-24, 2023



(Established Under Punjab Act No. 35 of 1961)

## DEPARTMENT OF CHEMISTRY

Punjabi University, Patiala - 147 002 (Punjab)

UGC: SAP (DRS - II) Assisted Department

### INVITATION

The organizing committee cordially invites you and your colleagues to participate in the deliberations of the 13<sup>th</sup> in series and 1<sup>st</sup> International Conference on "Recent Advances in Chemistry - 2023" (CRAC-2023) to be held during February 23-24, 2023, at the Department of Chemistry, Punjabi University, Patiala.

### INSTITUTION

The Punjabi University, accredited as 'A grade' by NAAC, located in the erstwhile princely city of Patiala, in the southeast of Punjab, was established on April 30, 1962. After the Hebrew University of Israel, this is the only university named after a language. In addition to its primary objective of developing and promoting the Punjabi language and culture, the University fulfils the educational and social requirements of the people of Punjab and nearby states. Keeping pace with the developments in the educational field worldwide, the university has evolved as a multi-faceted and multi-faculty educational institution with over eighty-five teaching and Research Departments.

The Department of Chemistry is one of the first three Departments which started functioning with the inception of Punjabi University in 1963. Initially, the Department started functioning with courses specializing in Organic, Inorganic and Physical Chemistry. In the later stages, Analytical and Biochemistry specializations were also introduced. In 1974, M.Sc. in Forensic Science was also added to the list of courses run by the Department. The Biochemistry specialization and Forensic Science section have now developed into full-fledged and independent Departments of Biotechnology and Forensic Science, respectively. The Ministry of Environment, Government of India, has recognized the Department of Chemistry as the centre for pollution control and environmental analysis. Currently, the Department offers Organic, Inorganic and Physical Chemistry specializations to M.Sc. and M.Phil. students. The Department has been awarded SAP DRS-II (2014-2019) and FIST (2009-2014) assistance by UGC, New Delhi and DST, New Delhi, respectively. The Department has well-established instrumentation labs equipped with GC-MS, CHNS Analyzer, UV-Visible, UV-Visible Spectro Fluorimeter, FTIR, TGA-DTA, HPLC and Flash Chromatography systems. Apart from teaching assignments the faculty of the Department is engaged in many Government and Industry sponsored major research projects.

### PATIALA

The princely city of Punjab, Patiala, is a brilliant spectrum of Rajput, Mughal and Punjabi cultures, a fine blend of modernity and tradition. Patiala is well known as the city of gardens. It was founded by Baba Aala Singh about 200 years ago. The city has several educational institutions like TIET, Rajiv Gandhi Law University, Government Medical College, State College of Education, Physical College of Education, Commerce College and a number of Science and Arts Colleges, National Institute of Sports and other historical and religious places like Baradari gardens, Kali Mata Mandir, Gurudwara Shri Dukhniwaran Sahib. Patiala is about 250 km from Delhi and 50 km from Ambala Cantt. and 70 km from Chandigarh. It is well connected by Road and Rail with all parts of the country. The weather in

early February is normally cold, with temperatures around 15<sup>o</sup>-20<sup>o</sup> C. The participants are advised to bring warm clothing.

### ABOUT THE CONFERENCE

This is the 13<sup>th</sup> in a series and 1<sup>st</sup> International Conference organized by the Department of Chemistry, Punjabi University, Patiala. The primary objective of this National Conference is to sensitize and stimulate young minds to bring out the best in the context of a new paradigm in Chemical, Environmental Sciences and Advanced Innovations. The deliberations will explore the new dimensions in the field of design, synthesis and structure, green chemistry, combinatorial chemistry, solution thermodynamics and environmental issues, pollution control and eco-friendly technologies. The special emphasis will be on the current issues related to Chemical and Environmental Sciences interdisciplinary areas. Also, this Conference will be able to bring together Scholars, Researchers and Industrialists on a common platform to deliberate and discuss state-of-the-art research collaborations in the field of Environmental Engineering, Bio informatics, Nano Science, Material and Separation Science during a special technical session with special emphasis on how the revolution in information technology in the Post Genomic Era is transforming Chemistry. The outcome of these deliberations will be highly beneficial for researchers in chemistry, Biosciences and Environmental Science. The technical programme includes a **Key Note Address by Prof. Philippe Schmit Kopplin, TUM, Germany and Plenary Talk by Prof. Arvind, Vice Chancellor, Punjabi University, Patiala, Prof. Mark C. Bhagley, University of Sussex, Brighton, UK, Prof. Imran Ali, Jamia Milia Islamia, New Delhi and Prof. Rossane Guijt, Deakin University, Australia.** The conference format also includes Poster/Oral sessions and free time to interact and network with conferees. Several features of the Conference create an atmosphere intended to invigorate professional connections and promote the advancement of the field: daily forums with intense intellectual engagement and off-the-record discussion of unpublished work.

The Conference provides the analysis works of Chemistry experience from varied scientific backgrounds, and therefore, young researchers and students may perceive the same. We are excited about the outcome and hope this Conference will be fruitful, enjoyable and worthwhile.

### CALL FOR PAPERS

The participants are requested to submit the Abstract (s) (maximum 250 words) of their paper(s) 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 **Dr Poonam Patyar** (Convener, Technical Programme Committee) on [cracchem2023@gmail.com](mailto:cracchem2023@gmail.com) as an attachment in MS Word format with above-said specifications. The name of the presenting author of the poster/oral should be bold and underlined. The poster size should be 1 meter x 1 meter in dimension. The abstract will be published in the Abstract Book after receiving the registration fee. The three best posters will be awarded prizes.

**Dr. Poonam Patyar**  
Convener - Technical Programme Committee  
CRAC-2023

e-mail: [cracchem2023@gmail.com](mailto:cracchem2023@gmail.com)  
Mobile: +91-8283832999

## CONTACT PERSONS

**Professor (Dr.) Baljit Singh**  
Convener, CRAC-2023

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**Professor (Dr.) Mohamad Yusuf**  
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## REGISTRATION FEE

Academia:	Rs. 3,000/-	M.Sc. Students:	Rs. 800/-
*Research Students:	Rs. 2,000/-	Accompanying Person :	Rs. 1,000/-
Industry:	Rs. 3,500/-	Foreign Delegate	USE 250/-

The registration fee is to be sent by a Demand Draft drawn in favour of the Organizing Secretary, **CRAC-2023** and payable at Patiala. Spot registration for participation only (not for oral/poster presentation) will also be available to all those interested.

## ACCOMMODATION AND TRAVEL

Participants will be provided accommodation at the University campus on a first come, first served basis only for the days of the Conference. All correspondence regarding accommodation and travel must be addressed well in advance to **Dr Jatinder Singh Aulakh** (Convener-Accommodation & Travel Committee: e-mail: chemiaulakh@gmail.com, Mobile: 91-9878074759).

## IMPORTANT DATES AND DEADLINES

Receipt of Abstracts: **January 31, 2023**  
\*\*Information about acceptance of Abstract(s): **February 15, 2023**  
Registration form along with a request for accommodation: **February 20, 2023**  
\*Students should submit proof of the studentship through a valid Identity Card and the Registration form.  
\*\*Abstract (s) will be published in the Abstract Book only after receiving the registration fee.

## NATIONAL ADVISORY COMMITTEE

Prof. (Dr.) Arvind, Patron Vice Chancellor, Punjabi University, Patiala  
Dr. N. Kalaiselvi Director General, CSIR, New Delhi  
Dr. S. Chandrasekhar Secretary, DST, Govt. of India, New Delhi  
Prof. (Dr.) M. Jagadesh Kumar Chairman, UGC, New Delhi  
Prof. (Dr.) Jaspal Singh Sandhu Vice Chancellor, GNDU, Amritsar  
Prof. (Dr.) Siva Umopathy Director, IISER, Bhopal  
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Prof. (Dr.) S. V. Kessar Emeritus Professor, PU, Chandigarh  
Prof. (Dr.) K. K. Bhasin PU, Chandigarh

Dr. J. S. Sandhu Punjabi University, Patiala (Former INSA Scientist)  
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Prof. (Dr.) Ashok K. Malik Department of Chemistry, Punjabi University, Patiala  
Prof. (Dr.) Baljit Singh Department of Chemistry, Punjabi University, Patiala  
Prof. (Dr.) Mohamad Yusuf Punjabi University, Patiala

## LIST OF SPEAKERS

Prof. Philippe Schmit Kopplin (Keynote Speaker) TUM, Germany  
Prof. Arvind (Plenary Talk) Vice Chancellor, Punjabi University, Patiala  
Prof. (Dr.) Imran Ali (Plenary Talk) Jamia Milia Islamia, New Delhi  
Prof. Mark C Bagley (Plenary Talk) University of Sussex, Brighton, UK  
Prof. Rossane Gujt (Plenary Talk) Deakin University, Australia  
Prof. (Dr.) Sanjiv Arora (Invited Speaker) KU, Kurukshetra  
(Dr.) Arvind Sharma, Senior Principal Scientist (Invited Speaker) CSIR-CSMCRI, Bhavnagar  
Prof. (Dr.) R.L. Gardas (Invited Speaker) IIT, Madras  
Prof. (Dr.) C.P. Kaushik (Invited Speaker) GJUST, Hisar  
Prof. (Dr.) Manoj Kumar (Invited Speaker) GNDU, Amritsar  
Prof. (Dr.) Narinder Singh (Invited Speaker) IIT, Ropar

## ORGANIZING COMMITTEE

**Prof. (Dr.) Baljit Singh** Convener  
**Prof. (Dr.) Ashok K. Malik** Coordinator  
**Prof. (Dr.) Mohamad Yusuf** Organizing Secretary  
**Dr. Poonam Patyar** Treasurer cum Convener,  
Technical Programme Committee

## Registration Form

**13<sup>th</sup> in series and 1<sup>st</sup> International Conference on Recent Advances in Chemistry: CRAC-2023**

Department of Chemistry, Punjabi University, Patiala  
**February 23-24, 2023**

Name of the Participant: \_\_\_\_\_

Designation: \_\_\_\_\_ Sex: Male/ Female

Institute: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

Mobile: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Type of Presentation: Poster/Oral

Title of the Research Paper: \_\_\_\_\_

Registration Fee: Amount: Rs. \_\_\_\_\_

Draft No. \_\_\_\_\_ Dated \_\_\_\_\_

Name and age of the Accompanying Person:

Name Age

1. \_\_\_\_\_

2. \_\_\_\_\_

Is Accommodation Required? Yes/No

Period: From \_\_\_\_\_ To \_\_\_\_\_

Date: \_\_\_\_\_ Signature \_\_\_\_\_

The registration form may please be sent to:  
**Professor (Dr.) Mohamad Yusuf**  
(Organizing Secretary, CRAC - 2023)  
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Punjabi University, Patiala – 147 002 (Punjab)  
Mobile: 91-9465440078  
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