

HIGHLIGHTS

- **Panel Discussion on The Stockholm Declaration on Chemistry for Future**
- **Expert Lectures**
- **Poster Presentation**
- **Hands-on Chemical Education**
- **The ACT Awards 2025 and Life Time Achievement Award**
- **International Chemistry Olympiad Workshop by Prof. Amrit Mitra**

Prof. Amrit Mitra who was one of the mentors of Indian team for the International Chemistry Olympiad will conduct workshop for school students.

The International Chemistry Olympiad (IChO) is an annual competition for the world's most gifted & brightest chemistry students at the secondary school level. Countries across the globe send a team of four students. These students are tested on their chemistry knowledge and skills in laboratory practical exam and a theoretical examination. Dubai hosted the 57th International Chemistry Olympiad (IChO 2025), where more than 90 countries participated.



The International Olympiads are the interacting opportunities of the brightest young minds, and many such interactions could culminate into larger & significant scientific collaboration later in life.

This year's Olympiad has the highest number of participants in its history, reflecting global recognition of science as a tool to address humanity's challenges.

CHIEF PATRON :

Prof. Arpan Bhardwaj, Vice-Chancellor, Samrat Vikramaditya Vishwavidyalaya, Ujjain

Prof. D.V. Prabhu, President, ACT, Wilson College, Mumbai

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CO-CONVENERS:

Dr. Swati Dubey, Prof. & Head, S. S. in Physics, Vikram University, Ujjain

Dr. Kamlesh Dashora, Prof. & Head, Institute of Pharmacy, V. U. Ujjain

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Prof. Uday Maitra, President, Department of Organic Chemistry, IISc, Bengaluru

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Prof. Sanjay Mathur, Director, Inorganic & Materials Chem., Univ. of Cologne, Germany

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Prof. Dibakar C. Deka, Vice-Chancellor, Mizoram University, Aizawl, Mizoram

Prof. Brijesh Pare, Head, Department of Chemistry, Govt. Madhav Science College, Ujjain

Dr. Narottam Sahoo, Advisor, Gujarat Science City, Government of Gujarat, Ahmedabad

Prof. Keshav Lalit Ameta, Central University of Gujarat, Gujarat

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Prof. Helen Kavitha, SRM Institute of Science and Technology, Ramapuram, Chennai

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International Conference on Breakthrough Innovations in Chemical & Sustainable Sciences : Research and Education (BICSS-2025)

&

National Convention of Chemistry Teachers (NCCT-2025)

November 13th, 14th and 15th 2025



Organized by:

School of Studies in Chemistry and Biochemistry,
Samrat Vikramaditya Vishwavidyalaya, Ujjain (M.P.)

&

* Association of Chemistry Teachers (ACT), India

* Mailing Address: Homi Bhabha Center for Science Education, TIFR, Mumbai

Website : www.vikramuniv.ac.in
www.associationofchemistryteachers.org

ABOUT THE CONFERENCE

BICSS-2025 is focused to provide a platform of discussion to fostering deliberations, collaborations and innovations, among scientists, researchers and educators of chemical and sustainable sciences from India and abroad. The conference aims to catalyse research, educational dialogue, and policy frameworks that support the 2030 Agenda for Sustainable Development and the Paris Agreement on climate change during this critical decade of action.

Strong emphasis will be on sustainability, green chemistry principles, circular economy practices, carbon capture technologies and sustainable materials. It also aims to highlight the pivotal role of education in disseminating these innovations and embedding sustainability into curricula to empower future generations of chemists, scientists, and educators.

The conference covers a wide range of multidisciplinary topics, such as Green and Renewable Energy, Coordination and Supramolecular Chemistry, Polymer and Material Sciences, Nanomaterials, Nuclear Chemistry, Circular and Sustainable Chemistry, Photocatalysis, Directed Evolution of Enzymes, AI in Chemistry, Sensors, RNA Vaccines, Aerogels, Liquid Solar Fuels, Depolymerisation, Click Chemistry, Chemical Education, and the Indian Knowledge System.

ABOUT UJJAIN

Stepping into Ujjain feels like walking through a living tapestry of history, spirituality, and culture. The city, one of the seven sacred cities of India, is deeply intertwined with ancient traditions and timeless rituals. As we stroll through its narrow lanes, the scent of incense fills the air, mingling with the sounds of temple bells and chanting from the revered Mahakaleshwar Temple, a symbol of the city's spiritual significance. The serene atmosphere is enhanced by the tranquil flow of the Shipra River. Sacred event like Simhastha Mela is held in every twelve years in Ujjain, attracts millions of devotees seeking spiritual purification and blessings. In Ujjain, 'Vedic Clock' positioned on an 85-foot tower within Jantar-Mantar is designed to display time according to the Ancient Indian Traditional Panchang.

ABOUT VIKRAM UNIVERSITY

Vikram University, Ujjain is a state university of Madhya Pradesh established under M.P. Vishwavidhyalaya Adhiniyam on March 1, 1957 with its dictum as “Vidhyamratamshnute” (Knowledge is the foundation of immortality) and well-defined objectives. Vikram University is an active member of the association of Indian Universities and Association of Commonwealth Universities. The university is a residential cum affiliation type institution, having 3000 plus students enrolled on campus. The university covers almost the total spectrum of higher education (traditional as well as modern streams) through its thirty-one School of Studies (University Teaching Departments) with fourteen research centres and more than 188 affiliated colleges offering various programmes in the areas of Physical Sciences, Life Sciences, Home Sciences, Social Sciences, Language Arts, Commerce, Management, Information Technology, Law, Agriculture Sciences, Forensic Science, Mass Communication and Natural Sciences etc.

ACT life member, our alumnus and executive council member Prof. Arpan Bhardwaj is the Kulguru (Vice-Chancellor) of this university.

ABOUT SCHOOL OF STUDIES IN CHEMISTRY & BIOCHEMISTRY

It is one of the earliest departments established by the Vikram University, Ujjan in October 1964. Department of Chemistry, situated in the picturesque surroundings on the University campus, offers programs leading to B.Sc., M.Sc. and Ph.D. programmes. The faculty members are engaged in research in various thrust areas - Organic heterocyclic synthesis, Material science and Nanocatalyst, Natural products, Supramolecular chemistry, Membrane transport, Photochemistry. This has resulted in a large number of publications in national and international refereed journals with good impact factor and citation index.

Research scholars and faculty members have received Young Scientists Awards from various bodies like MPCST, ISCA, ICC, ICS etc. Many students have qualified NET, GATE and SET.

ABOUT ACT

The Association of Chemistry Teachers was launched in 2000 to serve as an apex national body of chemistry educators to promote excellence in chemistry education. The idea of formulating ACT was conceptualised by Homi Bhabha Centre for Science Education (TIFR) Mumbai. The Association brings together on a common platform higher secondary school teachers, college and university teachers, scientists and researchers from industry for organizing various activities. Since its inception, ACT has worked tirelessly to strengthen chemistry education in India and to motivate students to pursue chemistry as a career.

The ACT awards are given to the outstanding chemistry teachers every year during NCCT. ACT lifetime award will also be given to an esteemed chemistry teacher. ACT has a large network of Life and Institutional members spread across the country. ACT is fortunate to have the guidance of the leading chemical Scientists of the Country including Bharat Ratna Prof. C. N. R. Rao, FRS who are role models for teachers to emulate.

SUB-THEMES AND SECTIONAL PRESIDENTS

Section A - Chemical Education and IKS

Prof. Vijay Pal Singh, Professor of Science Education, NCERT, New Delhi
(vpसुज्जवाल@yahoo.com)

- Education for Sustainable Development.
- Chemical Education
- Indian Knowledge System

Section B - Sustainable and Circular Chemistry

Prof. Brijesh Pare, Department of Chemistry, Govt. M. V. M., Ujjain
(brijeshpare2009@hotmail.com)

- Green & Renewable Energy
- Circular and Sustainable Chemistry
- Photocatalysis
- Aerogels
- Liquid Solar Fuels
- Photocatalytic Hydrogen

Section C - Advanced Synthetic Chemistry

Prof. Raakhi Gupta, IIS University (Deemed University) Jaipur
(raakhi.gupta@iisuniv.ac.in)

- Drug Design, Medicinal & Pharmaceutical Chemistry
- Organometallics, Coordination & Supra-molecular Chemistry
- Synthetic and Heterocyclic Chemistry
- Natural Product Chemistry & Herbal Formulations
- Metal Organic Framework
- Artificial Intelligence in Chemistry
- Click Chemistry

Section D - Material Science

Prof. Wasudeo Gurnule, Formerly Kamala Nehru Mahavidyalaya, Nagpur
(wbgurnule@gmail.com)

- Polymer Science, Material Science & Nano materials
- Theoretical & Computational Chemistry
- Nuclear Chemistry
- Reaction Kinetics and Catalysis
- Enantio-Selective Organocatalysis
- Flow Chemistry
- Directed Evolution of Selective Enzymes
- Reversible-Deactivation of Radical Polymerization
- Depolymerisation

SUBMISSION OF ABSTRACTS

Active participation in scientific sessions covering the topics of the conference is welcome. It should be typed in MS word using Times New Roman with font size 12. Authors should clearly mention on the top of the abstract the section in which the paper is to be considered. Scientist and researchers are requested to submit soft copy of abstract not more than 200 words to respective sectional presidents on their given email and copy it to bicsschem2025@gmail.com latest by October 15.

REGISTRATION DETAILS

Last Date of Abstract Submission : **15.10.2025**
Abstract Acceptance Notification : **20.10.2025**
Last Date of Registration : **15.10.2025**
Late Registration : **30.10.2025**

Payment can be made using NEFT

A/c Name : Chemical Association

A/c No.: 01450100006563

Branch : UCO Bank University Campus, Ujjain

IFSC: UCBA0000145

Registration Link : <https://forms.gle/cSRZMX7omzqkBp167>

E-mail : bicsschem2025@gmail.com

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scanning the
QR code :



ACCOMMODATION & CONTACT

Accommodation will be provided in hotels nearby Vikram University, Ujjain on payment basis. For information about accommodation and transport, kindly contact the following numbers:

Dr. Mukesh Vani - 9977077685 **Dr. Vijendra Singh - 8602567928**
Dr. Praveen Khirwadkar - 8770739880 **Mr. Arpit Phulke - 7970051980**

CONFERENCE VENUE

**Seminar Hall, School of Engineering and Technology,
Vikram University, Ujjain (M.P.) India**

REGISTRATION FEE

Student	₹ 500
Research Scholar	₹ 1000
Faculty /Scientist	₹ 2000
ACT members	₹ 1800
Late registration fee	₹ 2500
Student /Research Scholar (Abroad)	25 USD
Faculty (abroad)	100 USD
Delegate from Industry	₹ 3000
Foreign Delegates (Late registration)	200 USD
Spot Registration (Academia)	₹ 3000
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