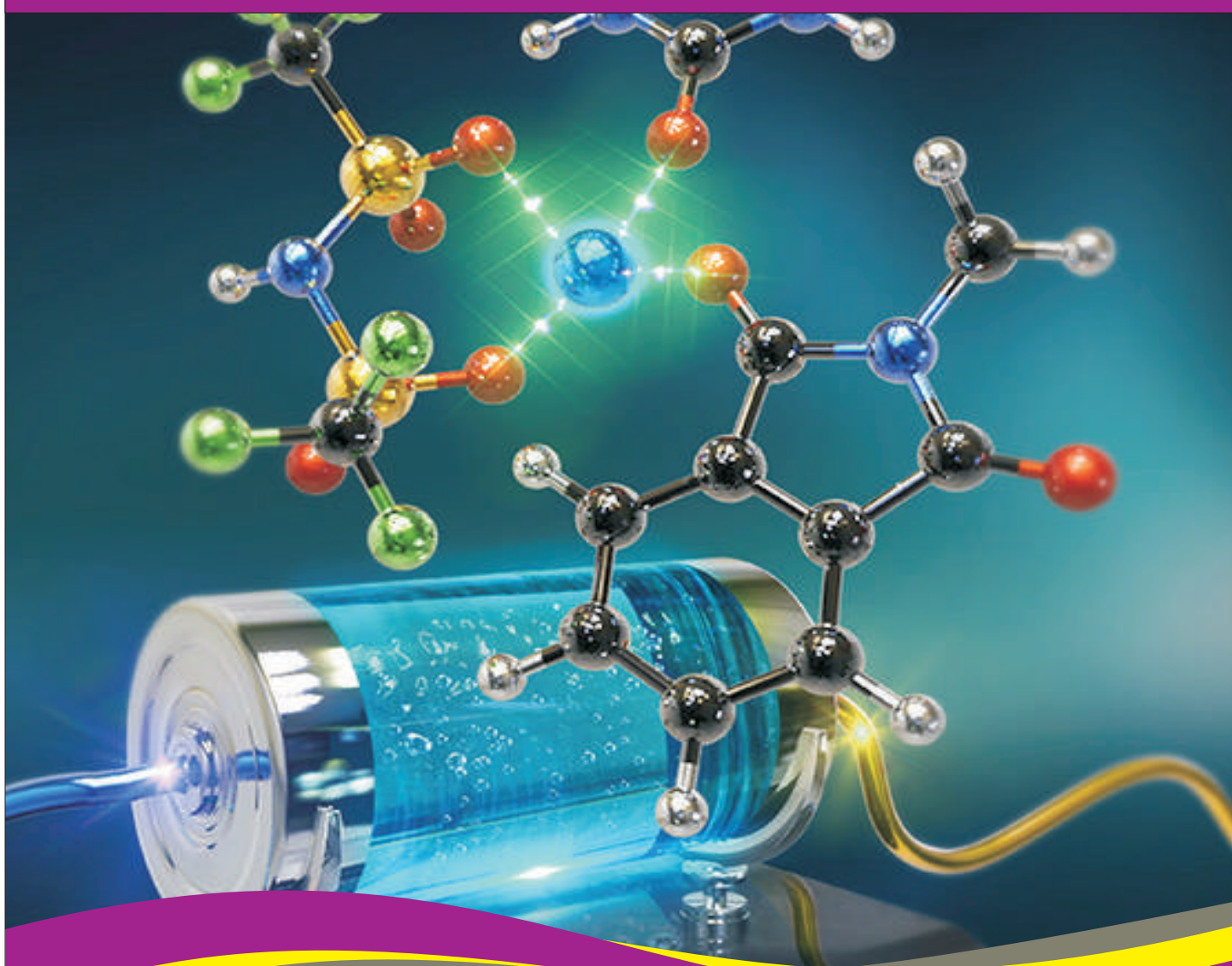




ASSOCIATION OF CHEMISTRY TEACHERS

Newsletter

ISSUE : 34 JANUARY - APRIL 2026



Promoting Excellence in Chemistry Education

Association of Chemistry Teachers

Newsletter, January - April 2026

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From Editorial Desk

Prof. Wasudeo Gurnule

Chief Editor
Vice President, ACT West Zone
Formerly Kamla Nehru Mahavidyalaya,
Nagpur-440024, Maharashtra.



The Editorial Board has made commendable efforts to ensure that this issue is both informative and visually engaging. We are pleased to inform our readers that the contributions of ACT continue to span a wide range of academic and scientific activities, including participation in International Olympiads, the organization of national and international conferences, demonstrations of innovative experiments, and oral and poster presentations by teacher participants.

In addition to several regional-level conferences and seminars, ACT has also conducted workshops aimed at supporting postgraduate and research students. This issue of the Newsletter features comprehensive reports on ACT's activities, recent trends in chemistry, and highlights from the world of science.

We have made a conscious effort to draw the attention of our readers to emerging global research trends, with the hope of inspiring them to take initiatives that align with the goals of sustainability. Furthermore, this issue includes reports on notable national and international chemistry events, including the Global Women's Breakfast (GWB-2026), organized by various zones across the country. I take this opportunity to express my sincere gratitude to all the Editorial Board Members for their wholehearted cooperation and support. We trust that our readers will find this issue enriching, informative, and motivating.

With warm regards to one and all

Members of Editorial Board

- ▶ **Dr. Mannam Krishnamurthy**, Varsity Education Management Limited, Hyderabad
- ▶ **Prof. Ramesh Yamgar**, Patkar-Varde College, Goregaon, Mumbai
- ▶ **Prof. Brijesh Pare**, Govt. Madhav Science College, Ujjain
- ▶ **Prof. Damodar V. Prabhu**, Wilson College, Mumbai
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- ▶ **Prof. Subhash P. Singh**, A.N. College, Patna
- ▶ **Prof. Hemant Pande**, Formerly Hislop College, Nagpur
- ▶ **Prof. Raakhi Gupta**, IIS (deemed to be University) Jaipur
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- ▶ **Prof. Vijay P. Singh**, N.C.E.R.T. New Delhi
- ▶ **Prof. Sudesh Ghoderao**, RNC Arts, JDB Commerce and NSC Science College,
Nashik Road, Nashik, Maharashtra
- ▶ **Prof. Amar Shrivastava**, Hari Sahai P.G. College, Kanpur

Honorary Members of ACT

We have great pleasure in bringing the updated list of honorary members of Association of Chemistry Teachers, who are sources of inspiration, guidance and support in activities of ACT.

The editorial board of ACT News Letter is proud of the academic achievements of these legendary honorary members.

Bharat Ratna Prof. C.N.R. Rao, FRS

National Research Professor : Linus Pauling Research Professor,
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Padma Vibhushan Dr. R.A. Mashelkar, FRS

CSIR Bhatnagar Fellow; Former Director General, CSIR, New Delhi.
President, Global Research Alliance, National Chemical Laboratory, Pune - 411 008.



Dr. Nitya Anand

Former Director, CSIR-Central Drug Research Institute, Lucknow.
B-62, Nirala Nagar, Lucknow - 226 020
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Former Vice-Chancellor, North Maharashtra University, Jalgaon.
B-2, Surajbun Housing Society, Aundh Road, Pune - 411 007.
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Prof. S. Jayarama Reddy

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Padma Shri Prof. Jai P. Mittal

Former Director, Chemistry - Isotope Group, BARC, Mumbai - 400 085.
Chairman, Academic Board, UM-DAE Centre for Excellence in Basic Sciences,
University of Mumbai, Kalina, Mumbai - 400 098
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Prof. Mihir K. Chaudhuri

Former Vice-Chancellor, Tezpur University, Tezpur.
Advisor, Education Department of Government of Assam, Gawahati - 781 006
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Padma Shri Prof. G. D. Yadav, National Science Chair, SERB, New Delhi Emeritus Professor of Eminence, Institute of Technology, Mumbai Former Vice Chancellor, Institute of Technology, Mumbai Email : gdyadav@gmail.com	
Prof. A. K. Bakhshi Chairman, National Resource Centre for Chemistry, MoE, GOI Chairman, Guru Angad Dev Teaching Learning Centre for e-Learning, SGTB Khalsa College, University of Delhi, Delhi Founder Vice Chancellor, PDM University, Bahadurgarh, Haryana Email : akbakhshi@yahoo.com	
Prof. John Warner Father of Green Chemistry and Coauthor of 12 Principles of Green Chemistry with Prof Paul Anastas President and Chief Technology Office, Warner-Babcock Institute for Chief Chemistry President, Beyond Benign Distinguished Professor of Green Chemistry, Monash University, USA Email : john_warner@uml.edu	
Prof. A. B. Pandit, Vice Chancellor, Institute of Chemical Technology, Matunga (E), Mumbai Email : ab.pandit@ictmumbai.edu.in	
Prof Ashutosh Gkosh Former Vice Chancellor, University of Calcutta, Kolkata Email : vccu@caluniv.ac.in	

Reports of Activities of ACT

International Seminar on Bridging Disciplines through Chemical Science for a Sustainable Future – 2026

The two-day International Seminar was successfully organized in hybrid mode by the Department of Chemistry, Navayug Kanya Mahavidyalaya, Lucknow from 13-14 February 2026 under the chairpersonship of Principal **Prof. Manjula Upadhyay** and the patronage of Manager Shri Vijay Dayal ji. Dr. Neha Agarwal serving as the Convener of the conference.

The conference received generous financial support from ANRF and sponsorship from the Association of Chemistry Teachers (ACT), Punjab National Bank, Bank of Baroda, Swantra Education Society, and Drishti IAS. The event recorded more than 500 registrations and comprised inaugural and valedictory sessions, a panel discussion, nine plenary lectures, three flash talks, six offline and six online technical sessions, along with poster presentations. Nearly 200 research papers were presented by scholars in both online and offline modes.

The Inaugural Session was presided over by Prof. J. P. Saini, Hon'ble Vice-Chancellor, University of Lucknow. The Chief Guest, Hon'ble Shri Sunil Kumar Sharma, Minister of Information Technology, Government of Uttar Pradesh, emphasized the pivotal role of chemical sciences in achieving sustainable development. Eminent academicians and International speakers from reputed institutions across India and abroad delivered lectures on green chemistry, sustainability, drug design, advanced materials, environmental analysis, circular chemistry, and interdisciplinary research.

A special highlight of the Inaugural Session was the unveiling of two academic books edited by the Convener, Dr. Neha Agarwal, published by Internationally reputed publishers, Springer Nature and CRC Press (Taylor & Francis) and the presence of Emerita Professor Mary Garson-President-IUPAC, as special invited guest in online mode.

The Valedictory Session was graced by Prof. Ajay Taneja, Hon'ble Vice-Chancellor, and Prof. Anuj Kumar Mishra (AKTU) and Prof. Anuj Kumar Sharma, Dean-Faculty of Engineering, AKTU, Lucknow. The conference witnessed enthusiastic National and International participation and successfully provided a vibrant interdisciplinary platform to promote sustainable development through chemical sciences.



Release of Abstract Book by the hands of Chief Guest



Group Photo

IAI-TT-2026

Two-day National Conference on Integrating Artificial Intelligence For Next-generation Therapeutics and Theranostics–2026

The conference titled “Integrating Artificial Intelligence for Next-Generation Therapeutics and Theranostics–2026 (IAI-TT-2026)” from 17-18 March, 2026 was successfully organized by the School of Pharmaceutical Sciences at Girijananda Chowdhury University (GCU), Tezpur campus, Assam. The primary objective of the conference was to explore the transformative role of artificial intelligence (AI) in advancing therapeutics and diagnostics, and to provide a common platform for academicians, researchers, and students to share their knowledge, ideas, and research findings. The event witnessed wide participation from different parts of India including Assam, West Bengal, Tripura, Bihar, Telangana, Uttar Pradesh, and Mizoram, highlighting its national significance and outreach. A total of 200 participants attended the conference. The scientific contributions included 81 poster presentations and 24 oral presentations, demonstrating active engagement from students and researchers. The diversity of topics presented reflected the growing importance of AI in pharmaceutical sciences, life sciences, and healthcare technologies. The conference was conducted over two days with a well-organized schedule comprising inaugural, technical, and valedictory sessions.

The first day of the conference began with registration and breakfast, followed by the



Release of abstract book by hands of Hon'ble Guest

inaugural session. The session commenced with the anchor's opening, followed by the national anthem and GCU anthem. Dignitaries were invited to the dais and felicitated, and the ceremonial lamp lighting marked the formal beginning of the event. Dr. Asish Bhaumik, Organizing Secretary, GCU, delivered the address of the gathering, emphasizing the importance of AI in modern therapeutics. This was followed by a welcome address by Mr. Jasoda Ranjan Das, President, SSA.

Further, Prof. Abdul Baquee Ahmed, Principal, School of Pharmaceutical Sciences, GCU, addressed the gathering and highlighted the academic significance of such conferences. Prof. Dipankar Saha, Registrar, GCU, Assam, also shared his views on the importance of interdisciplinary research. The conference was officially inaugurated, along with the release of the abstract book. The Guest of Honour, Dr. Pronobesh Chattopadhyay, Scientist-F, DRL Tezpur, delivered an insightful speech on research advancements, while the Chief Guest, Dr. Uzzal Mani Hazarika, Director, NERIWALAM, emphasized the role of innovation in healthcare.

The keynote lecture was delivered by Prof. Hemanta Kumar Sharma, President, IPA Assam State Branch, Department of Pharmaceutical Sciences, Dibrugarh University, on the topic "Advancements in Pharmaceutical Sciences with Integration of Artificial Intelligence for Next-Generation Therapeutics and Theranostics." His lecture provided deep insights into AI driven drug discovery, personalized medicine, and the future of healthcare systems. The inaugural session concluded with a vote of thanks by Dr. Hemanga Hazarika.

The scientific sessions began with Technical Session-1 delivered by Dr. Anil Limaye from IIT Guwahati on "Application of Artificial Intelligence in Biosciences and Bioengineering." This session highlighted the integration of computational tools in biological research. Technical Session-2 (online) was conducted by Prof. Md. Kamaruz Zaman from Dibrugarh University on "AI-Driven Approaches in Pharmaceutical Research and Development." These sessions enriched participants with current research trends and technological advancements.

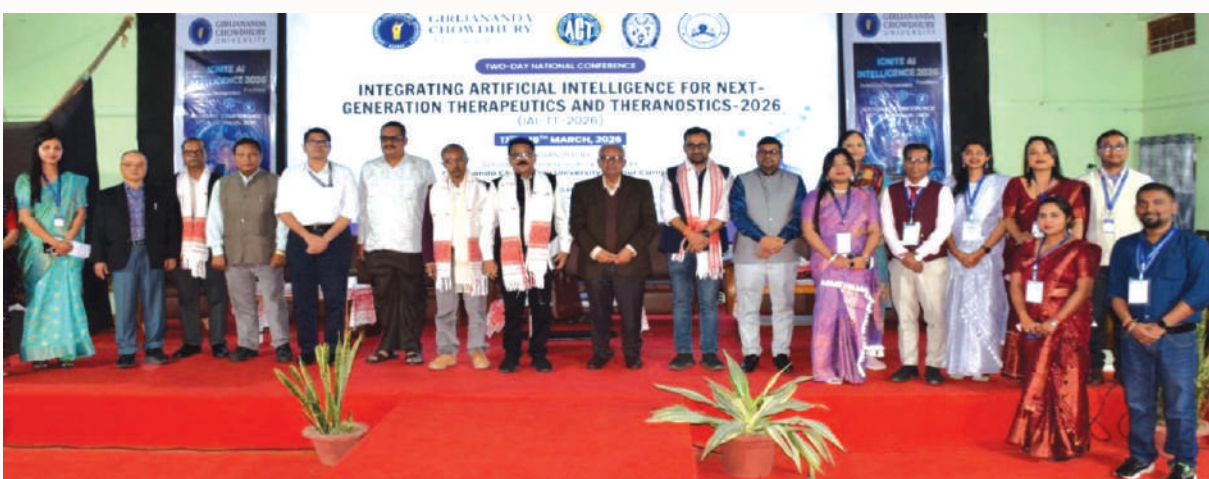
The afternoon sessions included Poster Presentation Session-1 (PP1–40) and Oral Presentation Session-1 (OP1–10), where participants presented their research work and interacted with experts. The day concluded with a cultural programme, which provided relaxation and promoted cultural exchange among participants.

The second day began with registration and breakfast, followed by scientific sessions. Technical Session-3 was delivered by Prof. Venkata Satish Kr. Mattaparthi from Tezpur University on "Computational Biology and AI Applications in Molecular Research." This session focused on advanced computational techniques and their applications in biological systems. Technical Session-4 was conducted by Dr. Anowar Hussain, Assistant Professor, Pub Kamrup College, Assam, on "Emerging Trends of Artificial Intelligence in Life Sciences." His lecture emphasized the future prospects and challenges of AI in life science research.

The post-lunch sessions included Poster Presentation Session-2 (PP41–81) and Oral Presentation Session-2 (OP11–24), providing further opportunities for participants to showcase their work and receive feedback from experts. These sessions encouraged interaction, discussion, and collaborative learning.

The conference concluded with the valedictory session. Feedback was collected from participants, which reflected a high level of satisfaction regarding the organization and content of the conference. Certificates and awards were distributed to recognize outstanding presentations and participation. The event ended on a positive note, marking the successful completion of the conference.

Overall, the conference was highly successful in achieving its objectives. It provided a valuable platform for knowledge sharing, promoted academic and research collaboration, and enhanced understanding of the role of artificial intelligence in next-generation therapeutics and theranostics. The active participation, expert lectures, and well-structured sessions made the event a meaningful and enriching experience for all attendees.



Group Photo



Report of GWB-2026

IUPAC “Global Women Breakfast”

Global Women Breakfast (GWB) is a global and prestigious event announced by “IUPAC” in association with prestigious sponsoring chemical societies and institutions, such as the Royal Society of Chemistry, American Chemical Society, DE GRUYTER Brill and BAYER to celebrate the accomplishments of Women and Girls in Science.

We, the members of the Association of Chemistry Teachers (India) (Mailing Address: Homi Bhabha Centre for Science Education (TIFR), Mumbai), feel immense pleasure in promoting the program in INDIA since 2021.

International Union of Pure and Applied Chemistry Global Women’s Breakfast (GWB) 2026 was successfully celebrated across India on 10 February 2026 with 93 registrations under the global theme “Many Voices, One Science.” We are pleased to report that the event witnessed enthusiastic participation from universities, colleges, research institutions, and professional networks across multiple states including Madhya Pradesh, Tamil Nadu, Maharashtra, Gujarat, Assam, Uttar Pradesh, Punjab, Himachal Pradesh, West Bengal, Chhattisgarh and others. In India, institutions conducted a variety of activities such as scientific lectures, panel discussions, mentorship sessions, poster presentations, networking breakfasts, student competitions, and outreach programs designed to inspire young women and strengthen professional networks in chemistry and related sciences. Senior women scientists, educators, and researchers shared their experiences and insights, encouraging students and early-career researchers to pursue leadership roles in science. Many events were conducted in hybrid mode to enable wider participation and inter-institutional collaboration. The collective efforts across the country reflected a strong commitment toward empowering women in science, promoting dialogue on equity and inclusion, and building sustainable scientific communities. Feedback from participants indicated increased motivation, enhanced networking opportunities, and greater awareness of the importance of diversity in scientific advancement. Overall, GWB 2026 in India successfully embodied the spirit of “Many Voices, One Science,” strengthening national engagement while contributing meaningfully to the global IUPAC mission of advancing chemistry for the benefit of society.

This year, maximum registrations have been from India and secured India again secured the top position in the world. The event was promoted by all members of the Association of Chemistry Teachers (India)

Dr. Vijendra Singh, Assistant Professor, Department of Chemistry, Institute of Science and Research (ISR) IPS Academy, Indore. National Coordinator of GWB-2026 for India

Prof. D. V. Prabhu, President, Association of Chemistry Teachers (India) Former Head and Adjunct Professor, Department of Chemistry, Wilson college (University of Mumbai), Mumbai

Glimpses of GWB-2026 in India



Department of Chemistry, ISR, IPS Academy, Indore



Department of Chemistry
Navyug Kanya Mahavidyalaya, Lucknow,

Department of Chemistry
Guwahati, Assam, India



Department of Chemistry, Rangia College, Assam.



Department of Chemistry, PMCOE, Ujjain, MP.



**Department of Chemistry
Integral University, Lucknow**



Satish Pradhan Dnyanasadhana College, Thane



**D Y Patil Deemed to be University
School of Pharmacy Sector – 7,
Navi Mumbai Nerul (E),**



**Department of Chemistry S.Chandra,
Mahila Mahavidyalaya, Sadak Arjuni**

GWB at Pedapalikaluru, Guntur

An academic event of ACT-IUPAC Global Women's Breakfast, 2026, at Guntur, was initiated by Dr. Mannam Krishna Murthy, Secretary, South Zone, ACT. The event was organized by the Vignan Chemical Association on March 10, 2026 at Pedapalikaluru, Guntur District, AP state.

Prof. Vejandla Anuradha, Principal, Vignan Degree College, Guntur and Life Member of ACT, coordinated and executed the celebrations with innovative and engaging activities related to the long form of the periodic table.

A total of 118 students participated in three types of competitions: Periodic table houseie, Periodic table bingo and Periodic table formation activity.

These activities were designed to enhance student's understanding of chemical elements in an interactive and enjoyable manner. Student participants actively involved with great interest, making the event lively and educational.

At the end of the program, prizes and certificates were distributed to the winners and participants to appreciate their efforts and encourage academic involvement beyond the classroom. The distribution ceremony added joy and motivation among the students.

The event was a grand success and received positive feedback from both students and faculty members. The Department of Chemistry expresses its gratitude to the college management for their support in making this event memorable and successful.



Participant of Periodic Table Assembly

Biomass-Derived Carbon Quantum Dots: Synthesis, Properties and Emerging Applications

Dr. Archana Asatkar

Dept. of Chemistry,
Govt. Nagarjuna P.G. College of Science
Raipur (CG).



Introduction

Carbon quantum dots (CQDs) are nanoscale carbon-based materials belonging to the carbon nanomaterial family, including graphene, nanotubes, and fullerenes. They possess remarkable optical and electronic properties such as strong fluorescence, tunable emission, and excellent biocompatibility. The shift toward biomass-derived CQDs is driven by the need for sustainable nanotechnology. Biomass sources like lignocellulosic waste, fruit peels, and agricultural residues provide abundant, renewable carbon precursors. These materials enable low-cost synthesis while reducing environmental pollution.

Biomass Precursors for CQDs

Biomass sources used for CQD synthesis include:

- a. Plant-based materials: leaves, roots, stems etc.
- b. Agricultural waste: rice husk, bagasse, straw etc.
- c. Food waste: fruit peels, coffee grounds, kitchen waste etc.
- d. Biopolymers: cellulose, lignin, chitosan, etc.

These precursors are rich in carbon, oxygen, and nitrogen, enabling heteroatom doping and surface functionalization during synthesis.

Synthesis Methods of Biomass-Derived CQDs

For your review paper, the following 120-word summary can be used:

Hydrothermal/Solvothermal Method

The hydrothermal/solvothermal method is a widely used green approach for synthesizing carbon quantum dots (CQDs) from biomass sources such as pomegranate peels, lemon peels, orange peels, sugarcane bagasse, rice husk, and other agricultural wastes. In this process, biomass precursors are dispersed in water and heated in a sealed autoclave at elevated temperatures, promoting dehydration, polymerization, aromatization, and carbonization reactions. These processes convert biomass components into fluorescent carbon nanoparticles with abundant surface functional groups. The resulting CQDs typically exhibit particle sizes below 10 nm, excellent water solubility, strong photoluminescence, low toxicity, and good biocompatibility. After purification, the CQDs are utilized in bioimaging, biosensing, photocatalysis, environmental monitoring, food packaging, and energy-related applications while supporting sustainable waste vaporization.

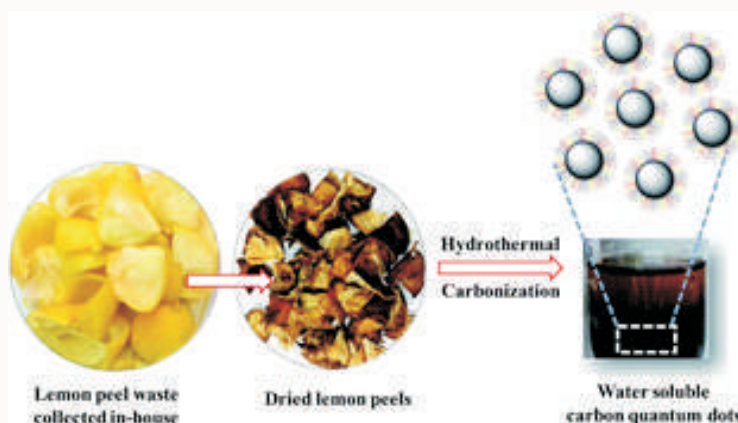


Figure. Preparation of Carbon Quantum Dots using Lemon Peels by Hydrothermal Method

Microwave-Assisted Synthesis

Microwave-assisted synthesis is a fast, energy-efficient, and environmentally friendly method for producing carbon quantum dots (CQDs) from biomass resources such as orange peels, pomegranate peels, lemon peels, and sugarcane bagasse. In this process, the biomass precursor is first washed, dried, and ground into a fine powder before being dispersed in water or a suitable solvent. The mixture is then subjected to microwave irradiation, typically for 5–20 minutes, resulting in rapid and uniform heating. Microwave energy accelerates dehydration, polymerization, aromatization, and carbonization reactions, leading to the formation of fluorescent carbon nanoparticles. The synthesized CQDs generally possess particle sizes below 10 nm and contain abundant surface functional groups such as hydroxyl, carboxyl, and amino groups, which enhance water solubility and biocompatibility. Compared with conventional hydrothermal methods, microwave-assisted synthesis significantly reduces reaction time and energy consumption. The resulting CQDs find applications in bioimaging, biosensing, photocatalysis, environmental monitoring, and food packaging.

Pyrolysis/Carbonization

Pyrolysis or carbonization is a widely used method for synthesizing carbon quantum dots (CQDs) from biomass sources such as orange peels, pomegranate peels, lemon peels, sugarcane bagasse, and other agricultural wastes. In this process, dried biomass is heated at 300–600°C under limited oxygen conditions, causing dehydration, decomposition, and carbonization of organic components. The resulting carbon-rich material is purified to obtain fluorescent CQDs with particle sizes generally below 10 nm. These CQDs possess abundant oxygen-containing functional groups that enhance water solubility and fluorescence properties. Pyrolysis-derived CQDs are widely explored for applications in bioimaging, biosensing, photocatalysis, environmental remediation, and energy technologies.

Ultrasonic-Assisted Synthesis

Ultrasonic-assisted synthesis is a green and efficient method for producing carbon quantum dots (CQDs) from biomass sources such as lemon peels, pomegranate peels, sugarcane bagasse, orange peels, and other agricultural wastes. High-frequency ultrasonic waves generate acoustic cavitation, creating localized high temperatures and pressures that accelerate the decomposition and carbonization of biomass components. This process promotes the formation of fluorescent CQDs with particle sizes typically below 10 nm and abundant surface functional groups. Compared with conventional methods, ultrasonic synthesis offers faster reaction rates, lower energy consumption, and better particle dispersion, making it suitable for sensing, bioimaging, environmental monitoring, and biomedical applications.

Properties of Biomass-Derived CQDs

Optical Properties

Biomass-derived carbon quantum dots (CQDs) possess unique optical properties that distinguish them from other carbon-based nanomaterials and make them attractive for applications in bioimaging, sensing, photocatalysis, and optoelectronics.

Strong photoluminescence (PL):

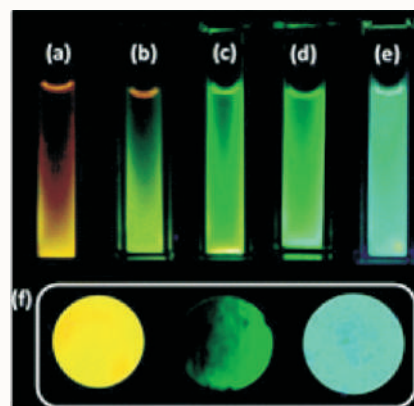
One of their most important characteristics is strong photoluminescence (PL). When exposed to ultraviolet or visible light, CQDs absorb photons and re-emit light at longer wavelengths, producing bright fluorescence. This photoluminescence originates from quantum confinement effects, surface defect states, and emissive functional groups present on the nanoparticle surface. The fluorescence intensity is strongly influenced by particle size, surface chemistry, and synthesis conditions.

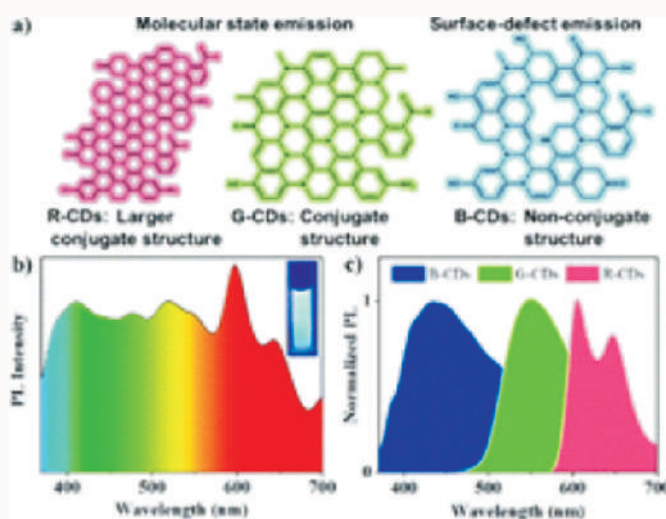
Excitation-Dependent Emission Behaviour:

Another remarkable feature is their excitation-dependent emission behavior. Unlike traditional fluorescent dyes, the emission wavelength of CQDs can shift when different excitation wavelengths are applied. This phenomenon occurs due to the presence of multiple surface energy states and heterogeneous particle size distributions. As a result, a single CQD sample can exhibit different emission colors under varying excitation conditions, providing versatility for multicolor imaging and sensing applications.

Tunable Fluorescence:

Biomass-derived CQDs also exhibit tunable fluorescence, ranging from blue to green, yellow, orange, and even red emission. The fluorescence color depends on factors such as precursor composition, particle size, degree of carbonization, surface oxidation, and heteroatom doping with nitrogen, sulphur, or phosphorus. For example, CQDs synthesized from lemon or orange peels often display blue fluorescence, while pomegranate peel and sugarcane bagasse-derived CQDs may show green or yellow emission due to differences in





surface functional groups. This tuneable fluorescence greatly expands their potential in biomedical diagnostics, environmental monitoring, and light-emitting devices.

Chemical and Surface Properties

Biomass-derived carbon dots (CQDs) possess unique chemical and surface properties that contribute significantly to their functionality and wide range of applications. The surface of CQDs is typically rich in oxygen-containing functional groups such as hydroxyl (-OH), carboxyl (-COOH), carbonyl (C=O), and epoxy groups, which originate from the biomass precursor and synthesis process. In some cases, nitrogen-, sulphur-, or phosphorus-containing groups are also present due to natural heteroatom doping. These functional groups enhance the hydrophilicity, water solubility, and colloidal stability of CQDs in aqueous media. Furthermore, the abundant surface functionalities provide active sites for chemical modification, bioconjugation, and interaction with metal ions, biomolecules, and pollutants. The surface chemistry also plays a crucial role in determining fluorescence behaviour, quantum yield, and sensing performance. Due to their high surface-to-volume ratio and rich surface defects, biomass-derived CQDs exhibit excellent chemical reactivity, making them highly suitable for applications in biosensing, bioimaging, drug delivery, environmental remediation, and photocatalysis.

Biocompatibility

Biomass-derived carbon quantum dots (CQDs) possess excellent biocompatibility, low toxicity, and high water dispersibility. Their hydrophilic surface groups enhance cellular uptake and compatibility with biological systems. These properties make them promising for bioimaging, biosensing, drug delivery, and diagnostic applications.

Applications of Biomass-Derived CQDs

Environmental Sensing

Biomass-derived carbon quantum dots (CQDs) are highly sensitive fluorescent nanomaterials used for environmental monitoring. Their abundant surface functional groups

enable selective detection of heavy metals, pesticides, dyes, and other pollutants through fluorescence-based mechanisms. CQDs exhibit excellent photostability, water solubility, and low toxicity, making them cost-effective and environmentally friendly materials for real-time sensing and pollution control applications.

Photocatalysis and Environmental Remediation

Biomass-derived carbon quantum dots (CQDs) are effective photocatalysts due to their excellent light absorption and electron transfer capabilities. Under visible light, they promote charge separation and generate reactive oxygen species that degrade dyes, pharmaceutical residues, and other pollutants. Their low toxicity, stability, and environmental friendliness make them promising materials for wastewater treatment, water purification, and sustainable environmental remediation technologies.

Energy Storage and Conversion

Biomass-derived carbon quantum dots (CQDs) possess high electrical conductivity, large surface area, and excellent electrochemical properties, making them valuable for energy storage and conversion. They enhance charge transport, ion diffusion, and cycling stability in supercapacitors and batteries. CQDs also improve light absorption and electron transfer in solar cells and hydrogen generation systems, contributing to efficient renewable energy production.

Anti-Counterfeiting and Optoelectronics

Biomass-derived carbon quantum dots (CQDs) possess strong fluorescence, tunable emission, and excellent photostability, making them valuable for anti-counterfeiting and optoelectronic applications. They are used in security inks and fluorescent markers for document and product authentication under UV light. CQDs are also employed in LEDs, display devices, and photodetectors, offering low-cost, eco-friendly, and efficient alternatives to conventional fluorescent materials.

Advantages of Biomass-Derived Carbon Quantum Dots

Biomass-derived carbon quantum dots (CQDs) are sustainable, low-cost, and environmentally friendly nanomaterials produced from renewable resources such as agricultural wastes and fruit peels. Their synthesis requires fewer hazardous chemicals and lower energy consumption. These CQDs support waste valorisation and circular economy principles while offering excellent scalability, making them suitable for applications in sensing, biomedicine, environmental remediation, and energy technologies.

Future Perspectives and Conclusion

Future research should focus on enhancing quantum yield, advanced heteroatom doping, and improving optical properties of biomass-derived CQDs. Their integration into smart sensors, wearable electronics, and optoelectronic devices is expected to grow significantly. With scalable green synthesis and improved performance, CQDs are poised to become important sustainable nanomaterials for environmental, biomedical, sensing, photocatalytic, and energy-related applications.

Academic Participation of ACT EC Members

- 1. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Advanced Functional Materials for Sustainable Development, in an International Level One Week Faculty Development Programme on Advanced sustainable Materials (Ensuring Sustainable and equitable Future) on 2nd January 2026.
- 2. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Keynote Address on “Advanced Sustainable Functional Nanomaterials” in International Conference on Innovations in Physical, Chemical and Biological Sciences for Sustainable Development (IPCBSSD-2026) organized by Department of Chemistry, Gurunank College of Science, Ballarpur in collaboration with ACT of India on February 2, 2026.
- 3. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on An Overview of Elastomers: Reinforce SBR-Nanocomposites with Silica Nanofiller, in International Conference on Advanced Functional Materials (Innovations in Physical, Biological and Chemical Sciences), in Collaboration with ACT of India organized by Department of Chemistry, Dharampeth Science College, Nagpur, in collaboration with ACT of India on 7th February 2026.
- 4. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Mechanical. Thermal and Rheological Properties SBR-Nanocomposites with Carbon Black Nanofiller, in International Conference on Waste Management and Circular economy, organized by CIPET, Chandrapur on 18th February 2026.
- 5. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on An Overview of Elastomers: Reinforce SBR-Nanocomposites with Carbon Black Nanofiller, in International Conference on Cutting Adge Materials for Sustainable Development organized by Govt. V.Y.T. Autonomous Science College, Durg, CG on 26th Feb. 2026.

- 6. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, as Chief Guest and Jury for the State Level Seminar Competition for UG students organized by S. K. Porwal College, Kampthee, in collaboration with Society for Promotion of Material Science, Nagpur on 21st March 2026.
- 7. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Green Approach for Sustainable Development : Nanomaterials, in National Conference on Exploring Interdisciplinary Pathways in Science, Innovations and Sustainability, organized by Department of Chemistry, Govt. Nagarjuna Science College, Raipur, CG, on 24th March 2026.
- 8. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Green Approach for Sustainable Development : Nanomaterials, in an International Conference on Advanced Material Science and Engineering organized by Department of Chemistry, Santaji Mahavidyalaya, Nagpur in Collaboration with ACT of India, on 28th March 2026.
- 9. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Circular Economy for Sustainable Development in Bhilai Mahila Mahavidyalaya, Bhilai on 29th March 2026.
- 10. Dr. Mannam Krishna Murthy**, Secretary, ACT South Zone has participated as a guest in the Inaugural of SKPVVDU High School, Jakkampudi Colony, NTR District AP state, along with Mr. Kesineni Sivanath, Member of parliament, Vijayawada. on April 5, 2026. He delivered a brief talk on "Digital Era of Future Education".
- 11. Dr. Mannam Krishna Murthy**, Secretary, ACT South Zone, attended American Chemical Society Science Talks, online, on April 7, 2026.
- 12. Prof. Wasudeo Gurnule**, Vice President of ACT West Zone, Delivered Invited Talk on Advanced Futuristic Materials in an International Conference on Advanced Research in Science, Technology and Management organized by Sigma University, Vadodara, Gujrat, on 28th April 2026.

News/Views and More

Scientists Turn Plastic Waste into Clean Hydrogen Fuel using Sunlight

Scientists are developing a new way to tackle two major global problems at once: plastic pollution and the demand for clean energy. By using sunlight, they are finding ways to turn discarded plastic into useful fuels. A recent study led by Adelaide University Ph.D. candidate Xiao Lu examines how solar-powered systems can convert waste plastics into hydrogen, syngas, and other industrial chemicals. This approach could help create a more sustainable, circular economy by giving new value to materials that are usually thrown away.

Plastic Waste as a Hidden Energy Resource

More than 460 million tonnes of plastic are produced worldwide each year, and large amounts end up polluting land and oceans. At the same time, the need to move away from fossil fuels has intensified the search for cleaner energy alternatives. The research, published in *Chem. Catalysis*, shows that plastics, which are rich in carbon and hydrogen, can be treated as a resource rather than just waste. Plastic is often seen as a major environmental problem, but it also represents a significant opportunity, said Ms. Lu. If we can efficiently convert waste plastics into clean fuels using sunlight, we can address pollution and energy challenges at the same time.



Sunlight-powered tech could soon turn plastic trash into clean fuel—tackling pollution and energy in one bold move.

How Sunlight Converts Plastic into Fuel

The method, called solar-driven photoreforming, relies on light-sensitive materials known as photocatalysts. These materials use sunlight to break down plastics at relatively low temperatures. Through this process, plastics can be transformed into hydrogen, which is a clean fuel that produces no emissions at the point of use, along with other valuable industrial chemicals. Compared to traditional water splitting for hydrogen production, this approach can be more energy-efficient. Plastics are easier to oxidize, which makes the reactions require less energy and increases the potential for large-scale use.

Challenges to Scaling the Technology

Despite this progress, several obstacles must be addressed before the technology can be widely adopted. One major hurdle is the complexity of plastic waste itself, Prof. Duan said. Different types of plastics behave differently during conversion, and additives such as dyes and stabilisers can interfere with the process. Efficient sorting and pre-treatment are therefore essential to maximise performance and product quality. Another key issue involves the photocatalysts themselves. These materials need to be highly selective and durable, capable of operating under demanding chemical conditions without losing effectiveness. Current versions can degrade over time, which limits their long-term reliability. There is still a gap between laboratory success and real-world application, Prof. Duan said. We need more robust catalysts and better system designs to ensure the technology is both efficient and economically viable at scale.

This is an exciting and rapidly evolving field, Ms. Lu said. With continued innovation, we believe solar-powered plastic-to-fuel technologies could play a key role in building a sustainable, low-carbon future.

Reference:

1. Xiao Lu, Wenjie Tian, Xiaoguang Duan. Opportunities and challenges in sustainable solar fuel production from plastics. *Chem Catalysis*, 2026; 101746 DOI: 10.1016/j.checat.2026.101746

Upcoming Event NCCT - 2026

About the Symposium

The International Symposium on Global Trends in Health Technology and Management (GHTM)-2026, organized by the Global Institute of Pharmaceutical Education and Research and Global Health Techno Management Forum, will be held on December 17-19, 2026 and will host NCCT-2026 of the Association of Chemistry Teachers. The symposium focuses on integrating chemistry education, and AI in healthcare while celebrating the 75th birthday of Anil Kumar Saxena. Major themes include, i) Organic and Medicinal Chemistry, ii) Computer Aided Drug Design (CADD), iii) Novel drug delivery system (NDDS) including nanotechnology, iv) Bioprospecting, v) Biotechnology, vi) Biomedical & Medical Sciences, vii) Sustainability, viii) Artificial intelligence, ix) Green chemistry, Environmental and ecoprotection and Public health, x) Intellectual Property Rights (IPR) and Drug Regulatory Affairs, xi) Chemistry Education, xii) Natural Products Chemistry, xiii) Supramolecular & Materials Chemistry, Catalysis, Coordination Chemistry, and Reaction Dynamics.

About Giper Kashipur

Global Institute of Pharmaceutical Education & Research (GIPER), located in Kashipur, Uttarakhand, is a leading pharmacy institute managed by Krishna Memorial Trust (KMT). Equipped with advanced drug discovery research facilities, GIPER emphasizes academic excellence and innovation in pharmaceutical sciences. The institute has successfully organized several national and international seminars and symposiums. GIPER has produced multiple gold medalists, and graduates well placed in academia and industry.

About Association of Chemistry Teachers (ACT)

The Association of Chemistry Teachers (ACT), established in 2000 with support from the Homi Bhabha Centre for Science Education, promotes excellence in chemistry education by connecting educators, scientists, and researchers. ACT inspires students, strengthens chemistry learning nationwide, honors outstanding teachers by ACT awards in NCCT. ACT has the guidance of the leading chemical Scientists of the country including Bharat Ratna Prof. C. N. R. Rao.

About GHTMF

Global Health Techno Management Forum (GHTMF), founded in 2023 by KMT and GIPER, Kashipur, promotes collaboration among academia, industry, healthcare, and policymakers. The forum advances research, innovation, and Sustainable development in areas such as AI, healthcare digitalization, drug discovery, emerging technologies, and management through networking and international symposiums.

About Kashipur

Kashipur, in Udham Singh Nagar district of Uttarakhand, is a growing industrial and educational hub with excellent connectivity. It is located near Dehradun, the state capital, as well as popular tourist destinations like Jim Corbett National Park and Nainital, known for their natural beauty, wildlife, and scenic landscapes.

GALLERY



How to Reach Kashipur

Nearest Airport: Pant Nagar (70 KM); New Delhi (235 KM); Jewar (251 KM), Dehradun (220 KM). Kashipur, Uttarakhand, is well connected by road and train. From Delhi, Dehradun, Pant Nagar and Moradabad about 240, 220, 70, and 50 km away respectively and can be reached by direct trains, buses, taxi or car.

Important Dates

Early bird registration: 31st August 2026
Last date to receive abstracts for Oral/Poster Presentations: 15th October, 2026

Call for Abstracts for oral/poster presentations

The abstract should be typed in English using one and a half line spacing and Times New Roman 12-point font on a single sheet of A4 white paper. Save and send the file as the presenting author's name as 'first name_last name.docx' to the conference email id. The Abstract text should be within 250 words in length without blanks, no indentations and no references with not more than 5 keywords.

Publication of research/review articles Springer

The authors (who submit their abstract) may opt to publish their original research/review articles as full length papers in either conference proceedings of GHTM-2026 (published by Springer Nature) or in special issue (Special Collection Honoring Dr. Saxena) of Medicinal Chemistry Research (Scopus indexed, impact factor: 3.1) also published by Springer Nature after due peer review process. The last date for sending the full-length paper for possible publication in Medicinal Chemistry Research is 30th November 2026. (No publication fee)



INTERNATIONAL SYMPOSIUM ON
GLOBAL TRENDS IN HEALTH TECHNOLOGY
AND MANAGEMENT
GHTM-2026
December 17-19, 2026

*Bridging chemistry education and
AI in healthcare innovations*

NATIONAL CONVENTION OF
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NCCT-2026

Organised by :

Global Health Techno Management Forum,
Global Institute of Pharmaceutical Education and
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Venue:

Global institute of Pharmaceutical Education and
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<http://giper.edu.in>

Correspondence:

Prof. Sisir Nandi, Organizing secretary,
Global Institute of Pharmaceutical Education and
Research, Jaspur Road, Kashipur, UK, PIN: 244713, India.
Symposium Website: <https://conference.ghtmf.com>
ACT Website: <https://www.associationofchemistryteachers.org>



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Registration and Payment link



Registration Link



Payment link

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Category	Off-line (National participant) (INR)	Off-line (International participant) (USD)	On-line ² (National participant) (INR)	On-line (International participant) (USD)
A) Academics				
i) Faculty	6000	200	1000	50
ii) Students	3000	150	500	40
B) Industry	10,000	400	2000	100
C) Accompanying person	2500	100	NA	NA

'REGISTRATION FEE

For Online oral and poster presentation (subject to selection) will be INR 2500/ USD 70 and INR 1500/ USD 50 respectively.

For ACT members INR2000; Accompanying member INR 1500, UTU scholars INR 2000, GIPER students INR 1500

There is also a possibility of partial participation (17 Dec only) by paying Rs. 1500 (students) or Rs. 2500 for (Faculty), or (18 or 19 Dec only) by paying Rs. 1250 (students) or Rs. 2250 for (Faculty), or (17 Dec and 18/19 Dec) by paying Rs. 2500 (students) or Rs. 4000 for (Faculty).

The registration rates from 1st September till 30th October will be increased by 30%.

From 1st November onwards:

ACT members: INR 3500; Faculty: INR 8000; Students: INR 4500;
Industry person: INR 12000; Accompanying person: INR 3000

ACCOMMODATION (Rates Per Day Per Person)

Category	Occupancy	Before 15th Aug 2026 INR	Before 15th Aug 2026 USD	Before 15th Oct 2026 INR	Before 15th Oct 2026 USD	Before 15th Nov 2026 INR	Before 15th Nov 2026 USD
Category-1	Single	5000	50	5500	55	6000	60
	Double	4500	45	5000	50	5500	55
Category-2	Single	3000	30	3300	33	3600	36
	Double	2500	25	2800	28	3000	30
Category-3	Single	2000	-	2200	-	2400	-
	Double	1500	-	1650	-	1800	-
Category-4	Single	800	-	880	-	960	-
	Triple	600	-	700	-	800	-

PAYMENT and CANCELLATION

Bank details:

Global Institute of Pharmaceutical Education and Research

Current A/c no: 30463817885, IFSC: SBIN0000668,

SWIFT code: SBININBB503

State Bank of India, SME Branch, Kashipur.

CANCELLATION POLICY

Registration is non-refundable. A refund of 50% will be done on the charges of accommodations upon official request of cancellations notification to gthtm2026@ghtmf.com before 30th August 2026 only.

List of newly added Life Members of ACT During 'January 2026 to April 2026'

Sr. No.	Names	LM No.	Institution
1	Ms. Sanika Mehta	2848	Shubh Labh Residency, Khajarana Square, Indore (M.P.) - 452018
2	Vedika Tiwari	2849	Shubh Labh Residency, Khajarana Square, Indore (M.P.) - 452018
3	Dr. Jijo Johnson	2850	Department of Chemistry, Santhom Malankara Arts and Science College Edanji, Manchavilakom P.O., Neyyattinkara, Thiruvananthapuram, Kerala, India - 695503
4	Dr. Rupesh Hiranman Gaikwad	2851	Department of Chemistry, Maharshi Dayanand College, Parel, Mumbai - 400012
5	Dr. Gunwanti Sinwal	2852	Royal College of Arts, Science And Commerce, Mira Road (E) 401107
6	Kiran M. Khandarkar	2853	St. Vincent Pollotti College of Engineering & Technology, Gavasi Manapur, Wardha Road, Nagpur, Maharashtra, India - 441108
7	Dr. Suchita Digambar Nimbalkar	2854	St. Vincent Pallotti College of Engg. & Technology, Nagpur (MH) - India - 441108
8	Dr. Raees Ahmed A K	2855	St. Vincent Pallotti College of Engg. & Technology, Nagpur (MH) - India - 441108
9	Dr. Manish M. Jachak	2856	St. Vincent Pallotti College of Engg. & Technology, Nagpur (MH) - India - 441108
10	Dr. Hemilkumar Shaileshbhai Patel	2857	Shrimad Rajchandra Vidyapeeth Dharampur, Gujarat - 396051.
11	Jaya Modi	2858	PMCOE, Govt P.G. College, Rajgarh (M.P.)- 465 661
12	Dr. Bhupesh Kumar Mishra	2859	Dept. of Chemistry, DNGC Itanagar, Arunachal Pradesh - 791113
13	Dr. Jyoti Nitin Thakre	2860	St. Vincent Pallotti College of Engineering & Technology, Gavasi Manapur, Wardha Road, Nagpur Maharashtra India - 441108
14	Dr. A. Asrar Ahamed	2861	PG & Research Depat. of Chemistry, Jamal Mohamed College (A), Tiruchirapalli - 620020 (Tamil Nadu)
15	Dr. Vibha Sachin Bhagat	2862	Royal College of Arts, Science And Commerce, Mira Road (E) 401107

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17	Dr. Pooja Mahesh Bele	2864	Santaji Mahavidyalaya, Nagpur - 440015
18	Ashmini Rajesh Thakur	2865	Santaji Mahavidyalaya, Nagpur, Sneh Nagar, Chatthrapati Square, Nagpur - 440015
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26	Dr. Alkadevi Varma	2873	Faculty of Science, Sigma University, Barrp;, Vadodara, Gujarat - 390019
27	Dr. Archana Singh	2874	CSIR, Advanced Materials & Processes Research Institute, Bhopal -462026
28	Ashok Kumar	2875	DCM Shriram, Fine Chemicals Ltd. Sardhana Road, Daurala, Meerut - 250221
29	Gorachand Mohapatra	2876	Staff Quarters Building 1, Flat 6, TAS-Nizwa, OMAN -611
30	Dr. Sajid Mansoori	2877	Mithibai College Vile Parfe(W), Mumbai - 400056

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31	Dr Archana Asatkar	2878	Govt. Nagarjuna P.G. College of Science Raipur, C.G., G.E. Road, Opposite NIT Raipur, Amanaka, Raipur, Chhattisgarh, City – Raipur - 492010
32	Saraswati Sharma	2879	ICFAI University, Raipur, 490042 - Chhattisgarh
33	Dr. Madhukar Eknath Navgire	2880	Jijamata College of Science & Arts, Vidyanagari, Dnyaneshwarnagar, Bhende BK Dist: Ahmednagar 414605
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35	Dr. Avinash Dnyandev Aher	2882	Department of Applied Science School of Engineering & Sciences MIT ADT University
36	Dr. Sunita Gupta	2883	Pradan Mantri College of Excellence, Govt. Model Science College, Rewa (M.P.)- 486001
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38	Kuldeep Kaur	2885	Department of Chemistry Mata Guruji College, Fatehgarh Sahib - 140406 (Punjab)
39	Dr. Rekha Chouhan	2886	Government College, Kaytha District Ujjain (M. P.) - 456665
40	Dr. Saroj Sharma	2887	Govt. NPG College of Science, Raipur (Chhattisgarh) - 492010
41	Dr. Umesh Shivaji Mote	2888	Department of Chemistry, Karmaveer Bhaurao Patil College, Islampur, Tal.- Walwa, Dist.- Sangli - 415409
42	Swapna Gijare	2889	Department of Basic Sciences and Humanities, Father Agnel Technical Education complex, Sector 9A, Vashi, Navi Mumbai-400703
43	Dr. Snehal Kargirwar	2890	FCRIT, Vashi - 400703



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