



CARBO-XXXIV: INTERNATIONAL CONFERENCE ON

“EMERGING FRONTIERS IN CARBOHYDRATES CHEMISTRY AND GLYCOBIOLOGY”



DECEMBER 5-7, 2019

SPONSORSHIP PROPOSAL



Jointly Organized by

**Department of Chemistry, University of Lucknow, Lucknow, India
National Institute of Pharmaceutical Education and Research, Raebareli, India
and
Association of Carbohydrate Chemists and Technologists of India (ACCTI)**

TOPICS TO BE COVERED

- Structures & Synthesis of Complex Carbohydrates
- Plant & Microbial Polysaccharides: Isolation, Characterization, Structure Elucidation & Utilization
- Transition Metal Saccharides Chemistry and Biochemistry
- Carbohydrates for Green Energy
- Glyco-Nanotechnology
- Carbohydrates in Drug Development
- Carbohydrate based Biopolymers: Modifications and Application
- Traditional Nutraceuticals and Complex Carbohydrates

WELCOME TO CARBO-XXXIV

Department of Chemistry, University of Lucknow, National Institute of Pharmaceutical Education Research, Raebareli and Association of Carbohydrate Chemists & Technologists of India (ACCTI) jointly announce to host the International Carbohydrate Conference (CARBO-XXXIV), which will be held on December 5-7, 2019 at University of Lucknow, Lucknow. The Carbohydrate Conference (CARBO) is one of the most important events organized annually under the auspices of the ACCTI. For 34th annual event, we welcome you all to Lucknow University.

The CARBO-XXXIV will encompass recent developments in all areas of carbohydrates. Some of the important scientific topics are listed above. The Conference will bring together both established and emerging researchers, scientists, technologist and industrialist to serve as a forum for deliberation and discussions on the progress in all major areas of carbohydrates.

ABOUT THE CONFERENCE

The association of carbohydrate chemists and technologists, India (ACCTI) is a scientific body of academicians, researcher, technologists and industrialists involved in the research and development of carbohydrate chemistry, biology and technology development in the country. Since 1984, the Association is organizing carbohydrate conference (CARBO series) in collaboration with various universities and research institute in India with the aim of developing sustainable platform for intellectual interaction between industry and academia.

Although carbohydrates are ubiquitous in both prokaryotic and eukaryotic cells, an appreciation of their varied function is only beginning to emerge in last few decades. The carbohydrates are information rich molecules vital to recognition process in biological system. Errors in glycosylation of biomolecules in cell system have severe implications and may lead to the serious disorders, such as, cancer, diabetes, etc. This implies that there is a tremendous potential for the development of carbohydrate based therapeutics or drugs to combat various diseases. Carbohydrates are multifunctional complex molecules and need special attention for their manipulation for different applications. We have gathered much of what we know today about carbohydrate functions from studies involving methods of organic & analytical chemistry, structural biology, biochemistry, genetics and cell biology.

ABOUT UNIVERSITY OF LUCKNOW

The University of Lucknow was established in the year 1920. It is one of the oldest universities in the State. Among the prestigious award of India, University Alumni got two Padam Vibhushan, four Padam-Bhushan, eighteen Padam Shri, B.C. Roy, and Shanti Swaroop Bhatnagar awards. The University has honored some of its distinguished alumni like Dr. Shankar Dayal Sharma (former President of India), Dr. K.C. Pant (former President of Planning Commission), Shri A.S. Anand (former Chief Justice), Mr. Surjeet Singh Barnala (former Governor of Tamil Nadu). Of course, it is a matter of pride, that Prof. T.N. Majumdar, Prof. D.P. Mukherjee, Prof. Camron, Prof. Birbal Sahani, Prof. Radha Kamal Mukherjee, Prof. Radha Kumud Mukherjee, Prof. Sidhant, Shri Acharya N. Dev, Prof. Kali Prasad, Prof. M.P. Khare, Prof. Surya P. Dixit, Dr. Naresh Trehan, Prof. Bhumitra Dev and many more have enlightened the lamp of Lucknow University by their knowledge and teaching. Currently, Prof. Dinesh Sharma from Deptt. of Commerce, is the Deputy Chief Minister of the state. Tagore Central library is one of the famous libraries among all the universities of India. The Tagore Central library houses not only books, but also has a good collection of e-books, manuscripts, paintings, arts, objects, ancient coins, theses and research journals.



ABOUT CHEMISTRY DEPARTMENT (UNIVERSITY OF LUCKNOW)

The Chemistry Department of Lucknow University came into existence in 1927. The first Head of the Department was Prof. P.S. McMahon, FNI who was also one of the founder members of the Indian Science Congress. The Department has been lucky in having on its roll a distinguished staff, to name a few, Prof. S.H. Zaheer, Prof. G.S. Siddhu (who later rose to the chair of Director General, CSIR), Prof. A.C. Chatterjee, Prof. S.N. Shukla, Prof. T.N. Srivastava, Prof. M.P. Khare and many more. This is the largest department of the science faculty with a strength of about 2500 Post Graduate and Under Graduate students, and about 85 research scholars. It imparts teaching both to the Biology as well as the Mathematics group students. It forms a subject combination with every subject in the science faculty. A well equipped Wi-Fi LAN setup and CLUSTER facility have been generated to be utilized by the Faculty, Research Scholars and Post Graduate Students of the Department. Also, recently Department had successfully completed the DST-PURSE program in which 300 MHz NMR spectrometer and FT-IR spectrometer were purchased. Additionally, in the Centre of Excellence Program funded by the State government. Department had purchased UV-Vis. Spectrophotometer, Fluorescence Spectrophotometer, Ultrasonic Interferometer and Ultra Cryostat Circulatory Chiller recently.



ABOUT NIPER-RAEBARELI

National Institute of Pharmaceutical Education and Research, Raebareli (NIPER-R) was created by an Act of Parliament in 2008. It functions as an autonomous institute under the aegis of Department of Pharmaceuticals, Ministry of Chemicals & Fertilizers, Govt. of India which declared it as "Institute of National Importance". It is currently situated in its New Transit campus in Lucknow, Uttar Pradesh. NIPERs were created to bring excellence in pharmaceutical education and research from the global perspective due to India's leading role in drug-manufacturing worldwide. In a span of ten years, NIPER-R has already played a leading role in providing skilled and industry-oriented human resource to the country. From the research point of view, it has contributed in all sectors of pharmaceutical drug development from hit discovery to formulation development leading to technologies for the future which are currently being further optimized. With the aim to create a world-class platform for synergizing academia and industry through training and research in pharmaceutical sciences, it has transformed itself into a premier centre of education and research in pharmaceutical sciences and has forged fruitful collaboration with many research organizations across India.

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LIST OF CONFIRMED SPEAKERS TILL MAY, 2019

- **PROF. PETER H. SEEBERGER** MAX PLANK INSTITUTE COLLOIDS AND INTERFACE, GERMANY
- **PROF. DR. VALENTIN WITTMANN** FACHBEREICH CHEMIE, UNIVERSITAET KONSTANZ, GERMANY
- **PROF. RICHARD R. SCHMIDT** KONSTANZ UNIVERSITY, GERMANY
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- **PROF. HIROMUNE ANDO** FACULTY OF APPLIED BIOLOGICAL SCIENCES, GIFU UNIVERSITY, JAPAN
- **PROF. ROLAND J. PIETERS** UTRECHT INST. FOR PHARMACEUTICAL SCIENCES, UTRECHT UNIVERSITY, THE NETHERLANDS
- **PROF. BRUNO J. LINCLAU** UNIVERSITY OF SOUTHAMPTON, HIGHFIELD SOUTHAMPTON, UK
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- **PROF. STEFAN OSCARSON** UNIVERSITY COLLEGE DUBLIN, DUBLIN
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- **PROF. M. S. SHASHIDHAR** NATIONAL CHEMICAL LABORATORY, PUNE
- **DR. KIKKERI RAGHAVENDRA** INDIAN INST. OF SCIENCE EDUCATION AND RESEARCH (IISER), PUNE

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ABOUT LUCKNOW



RUMI GATE

Lucknow, the city of rejoices and syncretic of various cultures and cuisines is the administrative capital of Uttar Pradesh and the 12th most populous city in India. Part of the princely state of Oudh, the city has various attractions which can mesmerize the viewers and tourists across the world. Such magnificent structures across the downtown and suburbs add flavors to the existing Ganga-Jamuni Tehzeeb. Better known for its delicious cuisine and chikan embroidery. Lucknow also facilitates the positive vibrations across the Gomti river, where all the fantastic architecture can be traced existing there for the last 400 years. Indeed a unique city located in the midst of state with access to all the major destinations across the country overnight. We do take this opportunity to present some of the pictures of this city that are unique of their kind and lesser known to the tourists.



IMAMBARA



CHATAR MANZIL



AERIAL VIEW OF CITY



JANESHWAR MISHRA



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