

CALL FOR PARTICIPATION

International Conference on
Systems and Processes in Physics, Chemistry and
Biology
(ICSPPCB-2018)

(in honour of Prof Pratim K Chattaraj on his 60th
birthday)

1st – 3rd MARCH, 2018

ORGANIZED BY



DEPARTMENT OF PHYSICS

ASSAM UNIVERSITY

SILCHAR 788011, ASSAM, INDIA

www.aus.ac.in

Conf. Web: <https://sites.google.com/site/icsppcb18/>

ABOUT ASSAM UNIVERSITY

Assam University, a Central University came into existence in 1994 through a Central University Act, 1989. The University is steadily becoming an excellent center for learning and research in meeting the manifold educational requirements of the North Eastern Region of India. The University has forty one departments under sixteen schools on major disciplines. The campus, is situated at Dargakona, about 20 kms from

the heart of the Silchar city and spread over 600 acres of land. It is surrounded by hillocks and lakes, besides scenic beauty and serene atmosphere suitable for academic purpose.

ABOUT SILCHAR

Silchar, the headquarter of the district of Cachar, stands on the bank of the river Barak and is about 343 km from Guwahati, the capital of Assam. It has many attractive tourist spots, like Khaspur (Lion Gate), the Sun Gate, Sonbeel (largest wetland in Assam state), Jatinga River (Bird Mystery) and many historic temples, Maniharan Tunnel, Borail Wild Life Sanctuary, Haflong (Hill station) etc. It is the second-largest city of Assam.

ABOUT THE CONFERENCE

Most of the systems in nature are complex essentially due to the large number of variables needed for their specification. Phenomena occurring in nature are difficult to realize because of the multiple concurrent events augmented by nonlinear interactions among them. The spatio-temporal structures of the systems are also far from equilibrium. These types of complex systems and processes occur in physics, chemistry, biology and other disciplines. Associated fundamental physical and chemical concepts help us to unravel this complexity. The diverse range of systems and processes arising out of those complex interactions can be analyzed through the principles of classical and quantum mechanics, occasionally augmented by statistical mechanics. However, their understanding is still a challenging issue in current research. A combined approach, consisting of theoretical, experimental and simulation techniques, is required to understand the structure and dynamics of these

systems and processes. This conference comprehends to shed light on various phenomena occurring in physical, chemical and biological systems. The inaugural session of ICSPPCB-2018 will be dedicated to celebrate the 60th birthday of Prof. Pratim K. Chattaraj, an eminent scientist in this field. Distinguished scientists, young researchers, research scholars and masters students interested in experimental and/or theoretical areas related to the above fields from different parts of the country as well as from abroad are invited to participate in this conference. The main goal of this conference is to develop skill and interest among young researchers and it will provide a golden opportunity to the students and researchers to gain experience by interacting with senior scientists, which may lead to collaborations in cutting-edge interdisciplinary research at the interface between physics, chemistry and biology. The conference will include key-note, plenary and invited lectures as well as oral and poster presentations.

International Advisory Committee

Prof. P. W. Ayers, McMaster University, Canada
Prof. P. Bultinck, University of Ghent, Belgium
Prof. F. De Proft, University of Brussels, Belgium
Prof. M. Galván, Universidad Autónoma, Mexico
Prof. R. Gebauer, ICTP, Italy
Prof. P. Geerlings, Vrije Universiteit, Belgium
Prof. P. Jena, VCU, USA
Prof. K. S. Kim, UNIST, South Korea
Prof. S. Liu, University of North Carolina, USA
Prof. G. Merino, Cinvestav, Mexico
Prof. A. Nagy, University of Debrecen, Hungary
Prof. R. Pandey, Michigan State University, USA
Prof. M. Sola, Universitat de Girona, Spain
Prof. A. Tachibana, Kyoto University, Japan
Prof. A. Toro-Labbé, Universidad Católica de Chile, Chile

National Advisory Committee

Prof. P. K. Chattaraj, IIT Kharagpur
Prof. S. K. Ghosh, BARC, Mumbai
Prof. D. G. Kanhere, S P Pune University, Pune
Prof. P. C. Mishra, BHU, Banaras
Prof. A. Misra, North Bengal University
Prof. S. Pal, IIT Bombay
Prof. S. K. Pati, JNCASR, Bengaluru
Prof. G. N. Sastry, CSIR-IIT, Hyderabad
Prof. N. Sathyamurthy, IISER Mohali
Prof. K. D. Sen, University of Hyderabad
Prof. V. Subramanian, CSIR-CLRI, Chennai
Prof. L. Tribedi, TIFR, Mumbai

Local Organizing Committee

Chief Patron: Prof. D. C. Nath, Vice-Chancellor, Assam University
Patron: Prof. A. K. Sen, Dean, School of Physical Sciences, Assam University

Chairperson: Dr. A. Deshamukhya, HOD, Dept. of Physics, Assam University

Convener: Dr. U. Sarkar, Dept. of Physics, Assam University

Secretary: Dr. P. K. Shukla, Dept. of Physics, Assam University

Treasurer: Mr. S. Biswas, Dept. of Physics, Assam University

Jt. Secretary: Dr. D. R. Roy, Dept. of Physics, NIT Surat

Members:

Prof. A. K. Sen, Dept. of Physics, Assam University
Dr. A. Deshamukhya, Dept. of Physics, Assam University
Dr. B. I. Sharma, Dept. of Physics, Assam University
Dr. H. S. Das, Dept. of Physics, Assam University
Dr. A. S. Devi, Dept. of Physics, Assam University
Dr. B. Mahanto, Dept. of Physics, Assam University
Mr. M. Baro, Dept. of Physics, Assam University
Dr. P. Mondal, Dept. of Chemistry, Assam University
Dr. A. D. Talukdar, Dept. of Life Sci, Assam University
Dr. S. Giri, NIT Rourkela

Publication Eds.: Dr. D. R. Roy and Dr. U. Sarkar

Confirmed Invited Speakers

- Prof. R. Ahuja, Uppsala Univ, Sweden
- Prof. P. W. Ayers, McMaster Univ, Canada
- Prof. D. Bhattacharyya, SINP, India
- Prof. P. Bultinck, Ghent Univ, Belgium
- Prof. P. K. Chattaraj, IIT Kharagpur, India
- Prof. A. K. Das, IACS, India
- Prof. G. P. Das, IACS, India
- Prof. R. Gebauer, ICTP, Italy
- Prof. P. Geerlings, Vrije Univ, Brussel
- Prof. P. Ghosh, IISER Pune, India
- Prof. S. K. Ghosh, BARC, India
- Prof. A. Hassanali, ICTP, Trieste, Italy
- Prof. P. Jena, VCU, USA
- Prof. D. Kanhere, Pune Univ, India
- Prof. G. Merino, Cinvestav, Mexico
- Prof. A. Misra, NB Univ, India
- Prof. P. K. Mukherjee, RKMVU, India
- Prof. S. Pal, IITB, India
- Prof. R. Pandey, Michigan State University, USA
- Prof. S. K. Pati, JNCASR, India
- Prof. P. Patra, Bridgeport University, USA
- Prof. N. Sathyamurthy, IISER Mohali, India
- Prof. N. Seriani, ICTP, Italy
- Prof. G. N. Shastri, CSIR-IICT, Hyderabad, India
- Prof. M. Sola, Girona Univ, Spain
- Prof. V. Subramanian, CSIR-CLRI, Chennai, India
- Prof. A. Tachibana, Kyoto Univ, Japan
- Prof. A. Toro-Labbé, Universidad Católica de Chile, Chile
- Prof. L. Tribedi, TIFR, Mumbai, India

Call for Papers

Original research papers are invited in the related areas including:

1. Atoms, molecules and clusters
2. Chemical reactivity and kinetics
3. Molecular dynamics and electronic structure calculations
4. Spectroscopy
5. Nano materials and nano-bio systems
6. Energy harvesting, storage and generation
7. Transport and optical properties
8. Computational physics and computational chemistry
9. Protein folding and dynamics
10. Bioinformatics, drug design and biologically important molecules
11. Structure and dynamics of physical, chemical and biological systems
12. Complex systems and nonlinear dynamics across the discipline

Full length papers should be sent to icsp.pcb2018@gmail.com, as per the guidelines and template as posted in the [conference website](#). Accepted papers will be published in the e-proceedings of the conference. The proceedings of the conference is likely to be published by a well established international publication house.

Registration Fees

Category	Early Bird	Regular	On-site
Indian Participants (in INR)			
Academics:	4000	4500	5000
Post Doctorals:	3000	3500	4000
Research Scholars:	2500	3000	3500
M. Sc. Students:	1000	1500	2000
Industry Delegates:	5000	5500	6000
Accompanying Person:	2500	3000	3500
Foreign Participants (in USD or equivalent amount)			
Academics:	300	350	450
Post Doctorals:	250	300	400
Research Scholars:	150	250	350
M. Sc. Students:	100	150	250
Industry Delegates:	350	400	500
Accompanying Person:	200	250	300

REGISTRATION FORM

International Conference on
Systems and Processes in Physics, Chemistry and Biology (ICSPPCB-2018)
(1st – 3rd March, 2018)

Department of Physics, Assam University, Silchar, INDIA

Name (in Capital letters): _____

Sex (Male / Female): _____

Date of Birth (DOB): ____ / ____ / ____

Designation: _____

Affiliation: _____

Highest qualification: _____

Mailing Address: _____

Tel: _____

E-mail: _____

Are you presenting a paper (Yes/No): _____

If yes, mention the title: _____

Accommodation is required (Yes/No): _____

If yes, provide details of Arrival/Departure:

Arrival: Date _____ Time: _____

Departure: Date _____ Time: _____

Details of the Demand Draft/Cheque/IMPS/NEFT: _____

Amount: _____

DD/Cheque/IMPS or NEFT Ref. _____

No: _____

Issuing Bank: _____

Date: _____

Date: ____ / ____ / ____

Place: _____

Registration fee may be paid preferably by electronic (IMPS/NEFT) transfer. However, multicity cheque/demand draft is also acceptable. The cheque/demand draft should be issued in favour of **ICSPPCB-2018** and payable at Silchar.

Details for electronic transfer

A/c Name: ICSPPCB-2018

A/c No.: 37077683198

Bank Name: State Bank of India

Branch Name: Dorgakona, Assam University Branch

IFSC Code: SBIN0014260, MICR Code: 788002522

* **TA/DA/Financial Assistance may be provided to limited participants as per availability of funds**

Important Dates

Abstract submission begins: **01.09.2017**

Registration starts: **01.11.2017**

Deadlines

Abstract submission: **10.10.2017**

Notification of acceptance: **30.10.2017**

Registration (Early Bird): **30.11.2017**

Registration (Regular): **31.12.2017**

Full length paper submission: **28.02.2018**

Contact details

All correspondence should be addressed to:

Dr. Utpal Sarkar

Convener, ICSPPCB-2018

Department of Physics, Assam University, Silchar 788 011,

INDIA

Mobile: +91-9401542687

Email: icsp.pcb2018@gmail.com

utpalchemiitkgp@yahoo.com

Signature of Participant

Graphene Sheet