

**International Conference on Applications of
Mathematics in Topological Dynamics, Physical,
Biological and Chemical Systems**

(ICAMTPBCS-2016)

December 09-11, 2016



Asutosh Bhavan

AE-374, Sector-I, Salt Lake City,

Kolkata-700064, West Bengal, India

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About the Calcutta Mathematical Society:

The metropolis of Kolkata (formerly Calcutta) has the distinction of producing five Nobel Laureates: Rabindranath Tagore (Literature), Chandrasekhar Venkat Raman (Physics), Ronald Ross (Medicine), Mother Teresa (Peace) and Amartya Sen (Economics) apart from a large number of luminaries of international repute in diverse fields like Sir William Jones, Sir Asutosh Mookerjee, Sir Gurudas Bandyopadhyay, Sir Upendra Nath Brahmachari, Acharya Jagadish Chandra Bose, Prasanta Chandra Mahalanobis, Satyendranath Bose, Meghnad Saha, Suniti Kumar Chattopadhyay, C.R. Rao, R.C. Bose, S.K. Mitra and many others.

The Calcutta Mathematical Society (CMS) was founded by Sir Asutosh Mookerjee in 1908 under the image of the London Mathematical Society and had him as its founder President with Sir Gurudas Bandyopadhyay, the first Indian Vice Chancellor of the Calcutta University, and other leading mathematicians as the founder members. Sir Asutosh Mookerjee was a Renaissance Man for the development of education and research, specially in Mathematical Sciences in India. The present building of the Calcutta Mathematical Society is named as Asutosh Bhavan. It is one of the oldest learned societies of its kind in Asia and had a long-standing association with many illustrious mathematicians and scientists like Albert Einstein, Subrahmanian Chandrasekhar, Abdus Salam, Satyendranath Bose, Nikhil Ranjan Sen, C.E. Cullis to mention a few.

In order to enthuse the young researchers by providing a good learning of the development of modern ideas, tools and techniques in Mathematics and Mathematical Sciences, the society regularly organizes seminars, symposia and special lectures. The Calcutta Mathematical Society has been regularly publishing its research journal 'Bulletin of the Calcutta Mathematical Society' since 1909. In addition to this the society at present also publishes 'Journal of the Calcutta Mathematical Society' and 'News Bulletin of the Calcutta Mathematical Society' along with various research monographs to accommodate more research articles in various branches of Mathematics and Mathematical Sciences.

Recently the society has taken up pedagogical activities in Mathematics, like training Primary Teachers and arranging lectures by experts on various topics in Mathematics mainly meant for school students. Moreover, the society

has been taking advanced level mathematical ability tests for middle school and high school students.

The society has a big library having spacious reading room accommodating a good number of collected volumes and many rare books donated by distinguished mathematicians. As the society has journal exchange programme with a number of research institutes and universities all over the world, the library is enriched with large collection of journals both domestic and foreign.

Objective of ICAMTPBCS-2016:

The main objective of ICAMTPBCS-2016 is to promote mathematical research and to focus the recent advances in the applications of Mathematics in Topological Dynamics, Physical, Biological and Chemical Systems. The conference aims to provide ideal platform for the young researchers throughout the world to interact with senior scientists, to exchange their views and ideas and to initiate possible scientific collaboration in different domains. The programme will consist of plenary invited talks as well as contributed presentations in different technical sessions.

Thrust Areas of ICAMTPBCS-2016:

- i) Analysis*
- ii) Topological Dynamics*
- iii) Fluid Mechanics and Plasma*
- iv) Geometric Analysis*
- v) Complex Phenomena in Physical, Chemical and Biological Systems*
- vi) Stochastic Process and its Applications*
- vii) Numerical Techniques and Simulations*
- viii) Information Theory and Cryptography*

Organizing Committee:

Prof. Rajkumar Roychoudhury

Retd. Professor, ISI, Kolkata and

President, Calcutta Mathematical Society

Prof. H.P. Mazumdar

Retd. Professor, ISI, Kolkata and

Vice President, Calcutta Mathematical Society

Prof. D.K. Ganguly

Retd. Professor, University of Calcutta, Kolkata and

Vice President, Calcutta Mathematical Society

Prof. Indrajit Lahiri

Professor, University of Kalyani, Kalyani and

Vice President, Calcutta Mathematical Society

Prof. Sanjay Sen

Professor, University of Calcutta, Kolkata and

Secretary, Calcutta Mathematical Society

Prof. Joydev Chattopadhyay

Professor, ISI, Kolkata and

Editorial Secretary, Calcutta Mathematical Society

Dr. Arindam Bhattacharyya

(Jt. Convener)

Assoc. Professor, Jadavpur University, Kolkata and

Assistant Secretary, Calcutta Mathematical Society

Dr. Koushik Ghosh

(Jt. Convener)

Asst. Professor, The University of Burdwan, Burdwan and

Treasurer, Calcutta Mathematical Society

Submission of Abstract:

Those who want to present paper in the conference must send the extended abstract within 500 words, written in English, prepared with MS-Word (New Times Roman, 12 font) to **cmsconf@gmail.com**. The abstract must contain a self-explanatory title, full name of the authors, affiliations and e-mail addresses. In case of multiple authors, please underline the presenting author. Please mention 'ICAMTPBCS-2016 Abstract Submission' as the subject of the email. All the submitted extended abstracts will be peer reviewed and only a selected number of papers will be invited for presentation.

Please note that one author can submit maximum two abstracts in the form either one in single authorship and the other in multiple

authorship or both in multiple authorship and he/she is entitled to present only one work. More than one single authorship abstract will not be entertained from any individual. Please also note that, in case of multiple authors only the presenter will get the presentation certificate. Other author(s) if participate (s) will get only the participation certificate. No joint presentation in any form will be allowed.

Last date of receiving the extended abstract is 31st August, 2016. Notification of acceptance will be made by 16th September, 2016.

Selected number of presented full-length papers (after a peer review process) will be published in a special issue of the Bulletin of the Calcutta Mathematical Society. The corresponding announcement in this regard will be made at the time of the conference.

Best Paper Award Contest:

There will be a contest for 'Best Paper Award' (maximum three prizes) for **only single authorship papers** and the maximum age limit of the authors must be **40 years**. An author willing to participate in the contest must send a short CV, scanned copy of the age proof, full-length paper along with a declaration that the submitted paper has not been published or considered for publication elsewhere at the email address cmsconf@gmail.com by 31st August, 2016.

Registration Fees:

Due to paucity of funds the society is not in a position to provide any travel support to any of the participants. The Calcutta Mathematical Society may arrange accommodation on request in **twin share basis only** in different guest houses/hotels. For foreign participants modest accommodation may be arranged (on request) including food and lodging. **Please note that no request for single occupancy room will be entertained in case a participant asks for accommodation from us.** *The registration fees include registration kits, book of abstracts, entry to all the technical sessions, tea and snacks and lunches during the three days of the conference and the participation/presentation certificate.* For each participant corresponding registration charges and accommodation charges (if needed) are listed below:

	Registration Fees for the Members of the Calcutta Mathematical Society	Registration Fees for the Non-members of the Calcutta Mathematical Society	Accommodation Charges if the participant wishes to have accommodation arranged by the Calcutta Mathematical Society
Indian Participants	INR 2000	INR 2500	INR 1000 per night (First-come-first-serve basis) Or, INR 1300 per night
Participants only from the Developing Countries other than India (As per the list provided by United Nations)	USD 70	USD 100	USD 35 per night
Participants from Developed Countries (As per the list provided by United Nations)	USD 200 or Euro 170	USD 250 or Euro 200	USD 60 per night
Undergraduate or Postgraduate or Research Student Participants of Indian nationality from any recognized Indian Institution/University(will have to provide the proof of studentship)	INR 1000		INR 1000 per night (First-come-first-serve basis) Or, INR 1300 per night
Undergraduate or Postgraduate or Research Student Participants of any foreign nationality from any recognized Indian Institution/University(will have to provide the proof of studentship)	INR 2000		INR 1000 per night (First-come-first-serve basis) Or, INR 1300 per night

*The registration fees for an accompanying person include entry to all the technical sessions, tea and snacks and lunches during the three days of the conference but he/she will not be entitled for the registration kits, book of abstracts and the participation certificate. The Calcutta Mathematical Society may arrange accommodation on request for the accompanying persons in **twin share basis only** in different guest houses/hotels. For the accompanying persons of foreign participants modest accommodation can be arranged*

including food and lodging. For each accompanying person the corresponding registration charges and accommodation charges are listed below.

	Registration Fees	Accommodation Charges if the accompanying person wishes to have accommodation arranged by the Calcutta Mathematical Society
Accompanying Persons of the Indian Participants (including the Accompanying Persons of the Student Participants)	INR 2000	INR 1000 per night (First-come-first-serve basis) Or, INR 1300 per night
Accompanying Persons of the Participants from the Developing Countries other than India (As per the list provided by United Nations)	USD 100	USD 35 per night
Accompanying Persons of the Participants from Developed Countries (As per the list provided by United Nations)	USD 200 or Euro 170	USD 60 per night

Free transportation will be arranged during the three days of the conference only for the to and fro journey **between the venue and the accommodation spots arranged by the society.**

The participants looking for alternative accommodation may search the following hotels/guest houses at Salt Lake listed below:

Hyatt Regency Kolkata, The Pearl Hotel, ITC Sonar, Hotel The Sojourn, Monotel, De Sovrani, Hotel East Palace, The Sonnet, Sidds Hospitality Hotel, IndiSmart Hotel, The Stadel Hotel, Himalaya Inn Service Apartment, Senses Hotel, Hotel Aayash, Coral Residency, Welcome INN, Hotel Kings Crown, Simi International The Imperial, Simi International The Executive, Siesta, Next Gen Guest House, Harry Guest House, Aquatic Palace, MegaCity Inn, Olive Inn Guest House, Treebo Platinum etc.

Please note that Calcutta Mathematical Society will not act as a mediator between any hotel/guest house and a participant at the time of booking or during the time of stay. Society has no issue or responsibility

altogether regarding the charges to be incurred and service to be provided by any hotel/guest house booked personally by any participant. The above list is just only for an information and not exhaustive. This must be also noted that Society will not provide any transportation between any hotel/guest house booked personally by a participant and conference venue during the conference.

Registration fees, accommodation charges (if needed) and the same charges for accompanying person (if any) are to be paid collectively by demand draft drawn in favour of 'Calcutta Mathematical Society' payable at Kolkata. Participants can also pay the same by bank transfer. The details for that are given below:

Account in favour of **Calcutta Mathematical Society**

i) PAN- AAATC4961A

ii) Complete Bank A/C.no.-10527194946

iii) Name of the Bank & Branch: State Bank of India

AE Market Branch, Salt Lake, Kolkata-700064

Branch Code: 6794

iv) IFSC of the Bank: SBIN0006794

v) MICR code of the Bank: 700002110

vi) Swift Code: SBININBB678

Willing participants who wish to present their papers are suggested to start the registration formality from 16th September, 2016 onwards after having the review report. However the willing participants who do not wish to present any paper may register immediately. Duly filled up Registration & Accommodation Form along with the registration fees must reach us on or before 22nd October, 2016. Otherwise the corresponding presentation will be considered as cancelled.

Venue of the Conference:

Calcutta Mathematical Society

AE-374, Sector-1,

Salt Lake City,

Kolkata-700064

West Bengal, India

**Contact No.: +91-33-2337 8882/
+91-33-4064 7875**

Contact Persons:

Prof. Sanjay Sen, Secretary, Calcutta Mathematical Society (Contact No.:+91-9433751307)

Dr. Arindam Bhattacharyya, Joint Convener, ICAMTPBCS-2016 (Contact No.: +91-9433949472)

Dr. Koushik Ghosh, Joint Convener, ICAMTPBCS-2016 (Contact No.: +91-9830913554)

For any query or submission please send email to cmsconf@gmail.com. Please visit the website <http://www.calmathsoc.org> time to time for any update.

General Information:

- The weather during the month of December in Kolkata is usually comfortable with sunny days and temperature usually varies between 10-24⁰ C.
- The nearest airport is Netaji Subhas Chandra Bose International Airport (Dum Dum, Kolkata).
- The nearest railway stations are Howrah (Eastern & South-Eastern Railways), Sealdah (Eastern Railway) and Kolkata (Eastern Railway).