

77th
Annual Conference of
The Indian Mathematical Society

Estd. 1907; Reg.No. S-550, Delhi,
www.indianmathsociety.org.in

December 27-30,2011



Organised at

School of Mathematical Sciences
Swami Ramanand Teerth Marathwada University,
Nanded-431606, Maharashtra, India

Website: www.srtmun.ac.in

ABOUT IMS

The IMS (Indian Mathematical Society) is the oldest scientific society in India founded by the Late Shri. V. Ramaswamy Aiyer with headquarters at Pune in 1907, devoted to the promotion of study and research in Mathematics. The IMS organises its conference annually in the well known institutes of India.

These annual conferences are full of enriching programmes, such as plenary and memorial award lectures by eminent mathematicians, several invited lectures and symposia on current research areas and a large number of research paper presentations by researchers from all over the country including the paper presentation competition. Along with this the IMS is publishing two periodicals, both of which are quarterly namely, "The Mathematics Student" and "Journal of Indian Mathematical Society"(JIMS).

ABOUT THE HOST INSTITUTE

The Swami Ramanand Teerth Marathwada University, Nanded was established in Nanded by bi-furcating the Marathwada University, Aurangabad on 17th September 1994.

The University has been named after Swami Ramanand Teerth, the Doyen of the Hyderabad Liberation Struggle and also a renowned educationalist and social activist. The University caters to the educational needs of the southern part of Marathwada Region of Maharashtra State, specifically to the districts of Nanded, Latur, Parbhani and Hingoli.

In the short time of operation the University has been granted recognition by the University Grants Commission (UGC), the apex educational body of Government of India, under 2(f) in March 1995 and under 12 (B) in May 1998, before completion of five years. It has been reaccredited by the NAAC in 2009 with 'B' grade.

ABOUT THE SCHOOL OF MATHEMATICAL SCIENCES

Hosting IMS 2011-12, will be a milestone for the School of Mathematical Sciences as well for the University. The School has a good faculty strength, working efficiently in current areas of research.

The School is well equipped with excellent computer lab and regularly updated mathematical softwares. The School has a huge collection of books and periodicals. It also subscribes to e-journals of national and international importance. Currently, two PG courses are running in the School namely M.Sc.(Mathematics) and M.Sc.(Statistics).

The School is preparing for establishing a integrated programme (after XIIth std) in Mathematics and Scientific Computing, from academic year 2012-13.

A number of distinguished Mathematicians, Scientists have visited to the school.

ABOUT NANDED CITY

Nanded is one of the historical places in Marathwada region of Maharashtra State. It is situated on north bank of the river Godavari.

Nanded also formed part of the Mauryan Empire during the reign of emperor Ashoka the Great(272 to 231 BCE). The mention of Nanded is found in the Lilacharitra, a treatise written about 700 years ago by Mhaimbhatta.

Guru Gobind Singhji, the tenth spiritual leader of the Sikhs, came over to Nanded, his permanent abode. Maharaja Ranjit Singh gave order and grant for construction of Gurudwara Takhat Sachkhand Sri Hazur Abchalnagar Sahib around 1835 AD Guru Gobind Singh's permanent abode.

Nanded is connected by Air service to Mumbai, Delhi and Nagpur. The nearest international airport is Hyderabad. Nanded is well connected via road and rail to rest of India.

HIGHLIGHTS OF THE CONFERENCE

- * The conference schedule is full of enriching programmes such as plenary and memorial award lectures, several invited talks and symposia on current areas of research followed with a large number of paper presentations by the researchers including the paper presentation competition.
- * In this year, we have separate one and a half hour session for mathematicians from the SAARC countries. The topic for deliberation is "Teaching and Research of Mathematics in SAARC Countries". We intend to publish research journal on mathematics with partnership of SAARC nation mathematicians/universities.
- * The school of Mathematical Sciences is organising an Exhibition on Mathematics. The exhibition will be held on university campus during the IMS. The desirous students should bring work/project/poster/article at the exhibition venue during the conference. The participants in the exhibition should kindly send a soft copy of their work details to usha.sangale@rediffmail.com before **31 October 2011**.

ACADEMIC PROGRAMME

Plenary Lectures

1. Prof.Ravi Kulkarni, IIT Bombay, Mumbai
2. Prof.R.Parimala, Emory University,USA
- 3.Prof.Dinesh Singh, Delhi University, Delhi

IMS Memorial Award Lectures

1. Rama Bhargava,IIT ,Roorkee
- 2.B.Ramkrishnan,HRI,Allahabad
- 3.G.Mishra,IISc,Banglore
- 4.Ajay Chaudhari, IAS,Govt. Dept.
- 5.Geetha S.Rao(retd),Ramanujan Institute, Chennai.

Invited Talks

20 renowned Mathematicians have confirmed their talks including foreign Mathematicians.

Symposia

1. On “Functions of Matrix Argument and Applications” Convener :A.M.Mathai(Center for Math Sciences,Pala)
2. On “Extremal Graph Theory” Convener :B.N.Waphare(University of Pune,Pune)
3. On”Ramanujan-yesterday and today” Convener :M.A.Pathan (AMU,Aligarh(retd.))
4. On “Analysis and Related Fields” Convener : Rajiv Srivastava(Institute of Basic Sciences,Agra)
5. On”Modelling and Uncertainty Analysis” Convener : D.Datta (BARC Mumbai)
6. On “Topology ” Convener : V.Kannan(Central University of Hyderabad, Hyderabad)

Special Session

There will be a special session of one-and-half hour for SAARC mathematicians.The topic is ”Teaching and Research of Mathematics in SAARC Countries”

PAPER PRESENTATION AT THE CONFERENCE

- 1.Papers should be typed double spaced on an A4 size white paper and should be accompanied by an Abstract in triplicate.Abstract should be brief and should not exceed 250 words.The use of formulae and symbols should be minimized.Abstracts received without full length paper shall not be considered.
- 2.Papers should be sent by registered post with the words”For the 77th IMS Annual Conference”written in a box on the left hand top corner of the envelope to **The Academic Secretary, Prof.Satya Deo, Harish-Chandra Research Institute,Chhatnag Road,Jhusi,Allahabad-211019(UP)**,so as to reach him not later than **October 31, 2011**(after which date no paper will be accepted).See also 4 and 5.
- 3.A stamped self –addressed envelope should be enclosed for the acknowledgement/acceptance of the paper for its presentation at the Conference.
- 4.A copy of the abstract and the paper must also be sent electronically(in.pdf format)to the Academic Secretary Prof.Satya Deo at his e-mail address: sdeo94@gmail.com or sdeo@mri.ernet.in
- 5.A copy of the paper and the abstract should be retained by the author and brought for use at the time of the Conference as it would not be possible for the society to make the paper available at the Conference.
- 6.Every paper submitted for presentation should be classified,as far as possible,according to the following classification scheme/codes and the same should be prominently displayed in red ink on the left hand top corner of the abstract.
 - (A) Combinatorics, Graph Theory and Discrete Mathematics.
 - (B) Algebra,Number Theory and Lattice Theory
 - (C)Real and Complex Analysis(including Special Functions,Summability and Transforms)

- (D) Functional Analysis
- (E) Differential Equations, Integral Equations and Functional Equations.
- (F) Geometry
- (G) Topology
- (H) Measure Theory, Probability Theory and Stochastic Processes ,and Information Theory
- (I) Numerical Analysis, Approximation Theory and Computer Science
- (J) Operations Research
- (K) Solid Mechanics, Fluid Mechanics , Geophysics and Relativity
- (L) Electromagnetic Theory, Magneto-Hydrodynamics, Astronomy and Astrophysics
- (M) Bio-Mathematics
- (N) History and Teaching of Mathematics

Every author intending to present a paper should either be a member of the Society or should register himself/herself as a sessional member. In case of joint authors, all the authors must be either members or should become Sessional members.

Those wishing to become Sessional members can do so by paying Rs.200/- (Two Hundreds only). The amount can be paid to the Treasurer, Prof. S. K. Nimbhorkar, Department of Mathematics, Dr. B. A. M. University, Aurangabad 431004 by sending a payee's a/c Bank Draft drawn in favour of the Indian Mathematical Society payable at Aurangabad, so as to reach him by December 10, 2011. After this date, applications for becoming Sessional members will be accepted only at the venue of the Conference at SRTM University, Nanded during 26th to 30th December 2011.

PAPER PRESENTATION COMPETITION

In order to encourage and inspire the young and budding research workers, the society holds, during its Annual Conferences, a special session of Paper Presentation Competition for six IMS Prizes, AMU Prize and V.M. Shah Prize to be awarded to the best research paper presented. This special session is held as a part of the Academic Programme with no other parallel session.

Following will be the areas and the grouping for these prizes:

1. **IMS Prize: Group1:-** Discrete Mathematics (Combinatorics, Graph Theory, Posets), Lattice Theory, Set Theory, Logic, Number Theory and related areas.
2. **IMS Prize: Group2:-** Algebraic Geometry, Geometry, Topology, Algebraic Topology and related areas.
3. **IMS Prize: Group3:-** Measure Theory, Probability Theory, Stochastic Processes and related areas.
4. **IMS Prize: Group4:-** Differential/Integral/Functional equations and inequalities, Special Functions, Numerical Analysis and related areas.
5. **IMS Prize: Group 5:-** Solid Mechanics, Fluid Mechanics, Electromagnetic Theory, Magneto-Hydrodynamics, Astronomy, Astrophysics, Relativity and related areas.
6. **IMS Prize: Group6 :-** Operations Research, Optimization, Computational Mathematics, Information Technology, Biomathematics, History of Mathematics and related areas.

AMU Prize: Algebra, Differential Geometry and Functional Analysis.

V.M.Shah Prize: Real Analysis, Complex Analysis, Fourier Analysis, Harmonic Analysis, Approximation Theory and related areas.

For details visit <http://www.srtmun.ac.in/IMSConference2011/IMSConference2011.aspx> or www.indianmathsociety.org.in or IMS Newsletter No. 26

REGISTRATION FEE

For participants from India : **Rs.1000** /-

For participants from outside India : **US\$ 200** /-

For each accompanying person : **Rs. 800** /-

Registration fee is to be paid by Demand Draft drawn in favour of “Registrar, SRTMU, Nanded and Local organising Secretary, IMS 2011” payable at Nanded. Duly filled Registration form along with Registration fee should be sent to the Local organising secretary before 30th November 2011.



Chief Patron

Hon'ble Shri. D. P. Sawant

Minister of State, Medical Education, Higher and Technical Education, Special Assistance,
and Non-Conventional Energy, Government of Maharashtra, Mumbai

Hon'ble Dr.S.B.Nimse

Vice-Chancellor,
S.R.T.M.University, Nanded
Local Organising Secretary,
77th Annual Conference of IMS

Dr.Dilip Ukey

Pro-Vice-Chancellor,
S.R.T.M.University, Nanded

Contacts

1)Dr.V.N. Shinde

Registrar ,
S.R.T.M.University, Nanded-431606
Email-id:-registrar@srtmun.ac.in
srtmunregistrar@gmail.com
Phone :+91-2462-229246

2) Smt.U. K. Sangale

Deputy Local Organising Secretary,
77th Annual conference of IMS,
School of Mathematical Sciences,
S.R.T.M.University, Nanded
Email-id:-usha.sangale@rediffmail.com
Moblie :- 09226502625
Office :- (02462)229564

Note:- Details of the 77th IMS Conference is available on our University website

www.srtmun.ac.in

Tel.No. +91-2462-229282,(PBX)229242, 229243. Fax:02462-229245/229572

REGISTRATION FORM

Paste a passport
size photograph



1.Full Name(Block Letters):_____

2.Gender: Male/Female:_____

3.Educational Qualifications:_____

4.Designation:_____

5.Affiliation and office address(if any):_____

PIN:_____

6.Address for Communication:_____

PIN:_____

7.E-mail ID:_____

8.Telephone:_____ Mobile:_____

9.Do you want to present a paper?Yes/No:_____

If yes,Title:_____

10.Name(s) of the accompanying person(s)(if any):_____

11.Are you a member of IMS?Yes/No:_____

12.Do you need accommodation? Yes/No:_____

13.Arrival Details:_____ Mode of Travel:_____

Date:_____ Time:_____

14.Registration Fees Details:

Amount: _____ DD No.: _____ Dated: _____

Date: _____

Place: _____

Signature of the Applicant

Duly filled Registration Form along with DD sent to:

Smt. Usha K. Sangale

School of Mathematical Sciences,

Swami Ramanand Teerth Marathwada University, Nanded-431606,

Maharashtra, India.

A soft copy of duly filled registration form (downloadable from www.srtmun.ac.in) must be sent to usha.sangale@rediffmail.com through email before 30th November 2011.