



INDIAN



MATHEMATICAL



SOCIETY

## INDIAN MATHEMATICAL SOCIETY

(Founded in 1907; Reg. No. S-550, Delhi)

Registered Office: Department of Mathematics,  
Savitribai Phule Pune University, Pune-411007

<http://www.indianmathsociety.org.in>

### NEWSLETTER

NO. 38

August – 2017



Facsimile of the Commemorative Postage Stamp on the 'Indian Mathematical Society' issued by the Department of Posts (Philately Division, Government of India, to mark the completion of hundred years of the Society. Released on the Inaugural day of the Platinum Jubilee 75<sup>th</sup> Annual Conference of the Society on 27<sup>th</sup> December 2009.

**INDIAN MATHEMATICAL SOCIETY  
NEWS LETTER NO. 38**

**August, 2017**

**83<sup>rd</sup> ANNUAL CONFERENCE OF IMS  
(December 12 - 15, 2017)**

The '83<sup>rd</sup> Annual Conference of IMS - an International meet' will be held under the auspices of Department of Mathematics, Sri Venkateswara University, Tirupati (Andhra Pradesh) during December 12 - 15, 2017 under the Presidentship of Prof. Manjul Gupta, Indian Institute of Technology, Kanpur.

Prof. S. Sreenadh, Head, Department of Mathematics, Sri Venkateswara University, Tirupati is the Local Organizing Secretary of the Conference. Correspondence pertaining to arrangements for accommodation etc. at Sri Venkateswara University during the Conference should be addressed to Prof. S. Sreenadh. His e-mail addresses are *profsreenadh@gmail.com* and *ims.svu83@gmail.com*.

**Details for sending Papers for presentation at the Conference :**

1. Papers should be typed double spaced and should be accompanied by an Abstract prepared as per the instructions and format given on page nos. 5 and 6. Abstract should be brief and should not exceed 250 words. The use of formula and symbols should be minimized. **Abstracts received without full length papers will not be considered.**
2. The abstracts and the papers should be sent electronically (in pdf format) to the Academic Secretary, Prof. Peeyush Chandra (Email: *acadsecrim@gmail.com*), so as to reach him not later than October 15, 2017.
3. Copies of the paper and the abstract should be retained by the author and brought for use at the time of the Conference.
4. 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 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 / Integral / 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 the case of joint authors, both the authors must be either members or should become Sessional Members. Non-members wishing to become Annual members can do so by paying Rs. 250/-. Those wishing to become Sessional Members can also do so by paying Rs. 250/-. The amount can be paid by check/DD (payable at par) drawn in favor of "Indian Mathematical Society". The check/DD should be sent to Prof. S. K. Nimbhorkar, Department of Mathematics, Dr. B. A. M. University, Aurangabad-431004 (Maharashtra), so as to reach him by November 15, 2017. After this date, applications for becoming a Sessional member will be accepted only at the venue of the Conference at Sri Venkateswara University, Tirupati (A. P.) during December 12-15, 2017 .

Acceptance of a paper for presentation does not automatically imply its acceptance for publication in the Journal of the Indian Mathematical Society or in The Mathematics Student. In case an author wants a paper to be considered for publication in either of these periodicals, he/she should submit the same separately to the Editor concerned.

#### **Award of Various Prizes**

The Indian Mathematical Society awards following prizes.

##### **A. P. L. Bhatnagar Memorial Prize.**

This Prize is awarded annually to the top scorer of the Indian Team at the International Mathematical Olympiad. It consists of a cash prize of Rs. 1000/- and a Certificate. The Prize is presented during the Inaugural Session of the Annual Conference of the Indian Mathematical Society.

##### **B. A. Narasinga Rao Memorial Prize.**

This Prize is awarded to the author of the best research paper published in the Journal of the Indian Mathematical Society or The Mathematics Student. The Prize carries a token amount of Rs. 2000/- along with a Certificate.

The Prize is recommended by a committee consisting of The Academic Secretary, Indian Mathematical Society, Editor, Journal of the Indian Mathematical Society and the Editor, The Mathematics Student. The Prize is awarded during the Inaugural Session of the Annual Conference of the Indian Mathematical Society.

The following conditions apply:

1. The research paper must be under single authorship, the research work must have been carried out in India and the post-doctoral research work is preferred.
2. The upper age limit of the awardee should not be more than 45 years as on the date of receipt of the paper by the Editor.

#### C. **A. K. Agarwal Award for Best Publication**

The Indian Mathematical Society (IMS) has instituted A. K. Agarwal Award for best research paper published (in any Journal) in the areas of Number Theory, Combinatorics, Discrete Mathematics, Analysis and Algebra. The corpus fund of Rs. 1.5 lakh for this award has been made available to the Indian Mathematical Society (IMS) by Prof. A. K. Agarwal, Center for Advanced study in Mathematics, Punjab University, Chandigarh (India). The award consists of a citation and a cash prize of Rs. 10,000 /- (Rs. Ten Thousand) and will be given in the inaugural function of the Annual conference of the Indian Mathematical Society. The prize amount may change depending on the bank interest rate. The award is given every year.

A. K. Agarwal Award for the year 2014 was awarded to Ms. Neena Gupta, Stat - Math Division, Indian Statistical Institute, Kolkata for her paper entitled "On the cancellation problem for the affine space  $A^3$  in characteristic  $p$ ", *Invent math* (2014) 195: 279-288.

For the year 2015 the award was awarded to Abhishek Banerjee, Department of Mathematics, Indian Institute of Science, Bengaluru for his paper "Action de Hopf sur les operateurs de Hecke modulaires tordus" published in the *Journal of Noncommutative Geometry*, Vol. 9, No. 4 (2015), 1155 - 1173.

#### D. **A. M. Mathai Award for Best Publication in Applicable Mathematics**

This award is given for best research paper published in the area of mathematics which has some applications in other fields such as Physical Sciences, Engineering Sciences, Biological and Medical Sciences, Social Sciences, Probability and Statistics. The corpus fund for this award (Rs. 5 lakh) is made available to the Indian Mathematical Society (IMS) by Prof. A. M. Mathai, Director, Center for Mathematical and Statistical Sciences, Peechi, Kerala and Emeritus Professor, MacGill University, Canada. The award consists of a certificate, to and fro travel (A. C. II tier Train fare) to the venue of the annual meeting and a cash prize of Rs 30,000/- (Rs. Thirty Thousand). The amount of the prize may change depending on the rate of interest given by bank.

**E. Satish Bhatnagar Award for best paper in the area of History of Mathematics**

The award is given for best publication in the area of History of Mathematics focusing on a person, problem, region, or system of education or government. The paper should be in single authorship. In exceptional cases, the paper by two authors is considered. In this event, the prize amount is equally divided. The minimum age limit for this award is 35 years as on 31st December of the year of award and there is no limits of citizenship.

The award consists of a citation and a cash prize of Rs. 5,000- 15,000 /-(Rs. Five to Fifteen thousand only). (Flexibility is important to the extent that ideally, no year be a blank year). The awardee is paid traveling allowance to the extent of II AC rail fare from the place of residence in India to the venue of the Annual Conference and back. The prize amount will change depending on the rate of interest given by the bank on the corpus fund. Prof. Satish Bhatnagar, Department of Mathematical Sciences, University of Nevada, Las Vegas, NV 89154-4020, USA donated corpus fund of Rs. 2 lakh for this award.

**F. Various Prizes for Research Paper Presentation.**

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 various Prizes to be awarded to the best research papers presented. This Special Session is held as a part of the Academic Programme with no other parallel session.

The following are the areas and the groupings for these prizes:

1. **IMS Prize-group-1:** Discrete Mathematics (Combinatorics, Graph Theory, Posets), Lattice Theory, Set Theory, Logic, Number Theory and related areas.
2. **IMS Prize-group-2:** Algebraic Geometry, Geometry, Topology, Algebraic Topology, and related areas.
3. **IMS Prize-group-3:** Measure Theory, Probability Theory, Stochastic Processes, and related areas.
4. **IMS Prize-group-4:** 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-group-6:** Operations Research, Optimization, Computational Mathematics, Information Technology, Bio mathematics, 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.

Three / Four judges are appointed by the Council for the “Paper Presentation Competition” for deciding the award of various Prizes. Each of these eight prizes listed above carries a Certificate and a cash amount of Rs. 1000/-.

The following conditions apply:

1. Only the Members of the Society are eligible for participation in the Competition.
2. The upper age limit of a candidate for participation in the Competition is 40 years as on December 31 of the respective year.
3.
  - a. The paper to be presented for the competition has to be under single authorship.
  - b. Independent work at the post-doctoral level is preferred.
  - c. The work must have been carried out in India.
  - d. Stress will be on both, quality of research as well as performance during the presentation.
4. Soft copy of the full paper with the abstract (not exceeding 250 words) **in its electronic version (.pdf format)** should reach Prof. Peeyush Chandra on the e-mail address given earlier not later than October 15, 2017. Candidates should also submit their latest CV and the proof of their age (scanned copy of high school certificate will do) along with the paper.

**Note:** One who is already awarded a prize in a certain area in the past is not expected to participate in the competition for the prize in the same area.

**An appeal:**

*All the Heads of the Departments / Institutions and the Research Supervisors are requested to encourage their research students for participation in this Competition.*

## INSTRUCTIONS FOR PREPARING THE ABSTRACT

The following instructions should be followed carefully to ensure smooth editing and printing of the abstract:

1. Soft copy of the Abstract is required in pdf and latex format.
2. The use of formulae and symbols should be minimized.
3. List of references should not form part of the abstract.
4. Classification of the abstract is a must.
5. **E-mail address is a must.**

The **electronic versions of the paper and the abstract in .pdf format** should be sent to Prof. Peeyush Chandra on the e-mail address given earlier so as to reach him not later than October 15, 2017 (after which date no paper will be accepted).

### FORMAT FOR THE ABSTRACT

Title of the paper :  
 Name of the Author(s) :  
 Institution(s) :  
 Name of the Presenter :  
 E-mail address for Correspondence :  
 Section :

#### Abstract

Text of the abstract (maximum 250 words)

Note : The Section (A, B, C, etc.) should be carefully chosen and mentioned against section in the above list. Refer the classification codes given earlier.

### Periodicals published by the Society

The Society publishes two periodicals - *The Journal of the Indian Mathematical Society* (JIMS; the Journal; ISSN 0019-5839) and *The Mathematics Student* (Math Student; the Mathematics Student; ISSN 0025-5742), both of which are quarterly.

\* *Only the research papers of high quality* are published in the Journal

\* Ordinarily the following is published in The Mathematics Student :

- the texts of Presidential Addresses, the Plenary talks and the Award Lectures delivered at the Annual Conferences,
- the texts of the invited talks delivered at the Annual Conferences,
- research papers, and
- the Proceedings of the Society's Annual Conferences, Expository & Popular articles, Book Reviews, Reports of IMS Sponsored lectures, etc.

**Copyright: Copyright of the articles published in the Journal or the Student lies with the Indian Mathematical Society.**

For Manuscript Submission, Manuscript Style, instructions to authors etc. refer to the website of the IMS.

There are **no page charges** for publications in the Journal as well as in the Mathematics Student. However, **if author(s)** (whose paper is accepted for publication in any of the IMS periodicals) **is (are) unable to send the LaTeX file of the accepted paper, then a charge Rs. 100 (\$ 10) per page will be levied for LaTeX typesetting charges.**

### Subscriptions

\* Annual subscription for the Journal / the Mathematics Student :  
For each periodical

- Rs.1500/- for Libraries of Educational Institutions in India - provided the subscription is direct or through an agent who gives complete name and address of the subscriber. The supply will be made directly to the subscribing library.
- Rs. 1800 for Libraries of Educational Institutions in India when the subscription is made through an agent who gives complete name and address of the subscriber. The supply will be made directly to the subscribing library. The agents will get 15% discount.
- Rs. 8000/- for others for personal use or to the agents who do not supply the names and addresses of the end users. In this case, the agents will get 20% discount.
- \$150/- for personal use or for Libraries outside India. The agents are entitled to get 20 % discount on their orders.

Each issue of The Mathematics Student is being sent to the Life Members **in electronic form** to their E-mail address registered by the members with the Society for their personal use (not for circulation). No hard copy of this periodical will be sent to the Members. Those Members who have not registered their e-mail address are requested to register it on <imsgoesgreen@gmail.com>. It may please be noted that the contents of The Mathematics Student will continue to be available on the Society's website [www.indianmathsociety.org](http://www.indianmathsociety.org) and a physical copy of The Mathematics Student will continue to be available at the IMS Library (Ramanujan Institute of Advanced Study in Mathematics, Madras University, Chennai) as well as at the Registered Office of the Society (Department of Mathematics, Savitribai Phule Pune University, Pune - 411 007) for reference during office hours.

### Membership of the Society

#### Life Membership Fees for Indians :

Rs.2000/- for individuals .

#### Ordinary Annual Membership Fees:

Rs. 250/- .

#### Life Membership Fees for Foreigners :

- (i) Foreigners from any country: US \$ 300
- (ii) Foreign Senior Citizens (60 years and above) : US \$ 100
- (iii) Persons from SAARC countries : INRs. 2500/-



**Sessional Membership Fees :**

Rs. 250/- (US \$ 10 for those residing outside India).

Sessional Members are those who join the Society only for a particular Session. They may contribute paper(s) for presentation and / or participate in any of the academic programmes held during the Session.

- *Membership form is available on the IMS website.*

**Business Correspondence and Payments:**

All business correspondence be addressed to Prof. S. K. Nimbhorkar, Treasurer, IMS; Department of Mathematics, Dr. B. A. M. University, Aurangabad - 431 004 (Maharashtra), India. All payments are to be made to Treasurer, IMS by DD drawn in favor of “**The Indian Mathematical Society**” payable at **Aurangabad** (Maharashtra), India at the address mentioned above.

**Member in good standing:**

A member is considered to be of good standing in a particular year if he/she has paid his/her Membership fees by **July 31** of that year.

**IMS Library**

The Indian Mathematical Society Library is housed in the Campus of the Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai - 600 005 ever since it was shifted from Pune.

The Library receives many journals on Exchange basis and has a rich collection of back numbers of reputed mathematical journals received from all over the world. The complete catalogue of the back volumes of all the periodicals published by the Society as well as those received in exchange by the Society and available in the IMS Library, Chennai, is now displayed on the IMS website. There is a spate of request for photocopies of articles published in these journals and the Library attends to these demands promptly. If a particular journal is not available in the IMS Library, the scholars / students are requested to contact other Libraries where it is likely to be available providing them with the addresses of those Libraries.

The address of the IMS Library is:

The Indian Mathematical Society Library,  
The Ramanujan Institute for Advanced Study in Mathematics,  
University of Madras, Chepauk, Chennai - 600 005.  
Phone : (O) +91-44-25360357  
E-mail: youvarajgp@yahoo.com

For further information one may contact Prof. G.P. Youvaraj, Director, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, who

is the Honorary Librarian for the Indian Mathematical Society Library.

**NOMINATIONS FOR ELECTION TO THE COUNCIL OF THE SOCIETY**

The Council has made the following nominations for elections to the Council:

President: Prof. Sudhir Ghorpade, Professor, IIT, Mumbai for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2018.

Prof. Sanjib Kumar Datta, University of Kalyani, Kalyani; Prof. Asma Ali, A. M. U, Aligarh; and Prof. G. P. Raja Sekhar, IIT, Kharagpur for election as members of the Council for a period of three years w. e. f. April 1, 2018.

A member (in good standing) of the IMS can contest for membership to the Council of IMS or to any other office for which there is a vacancy may do so by following the procedure laid down in the following TWO paras, may approach to the Returning Officer, Prof. M. M. Shikare, Department of Mathematics, Savitribai Phule Pune University, Pune - 411 007, Maharashtra, India on or before September 30, 2017.

**In the context of (h) of the constitution of IMS.** If a member wishes to contest for any office of the council or as a member of the council (wherever applicable) his/her nomination should be supported by at least TEN life members individually and separately with the mention of their exact names as well as their exact unique membership numbers as per records of the IMS so as to reach the returning officer not later than September 30, 2017. Nominations submitted in the manner indicated above shall be considered valid nominations. There shall be a scrutiny of the nominations in the light of above rule by the Returning officer.

**In the context of (i) of the constitution of IMS.** The nominations made by the council with an indication made to that affect, together with other valid nominations made by the members of the society (following the procedure mentioned in the above para) shall be sent through e-mail by the Returning officer on the registered E-mail addresses of members of good standing of the society not later than October 30, 2017. The members should take a print out, complete the formalities and send it by registered post to the Returning officer so as to reach him latest by November 30, 2017.

The following (j) and (k) are modified in the lines of the constitution of IMS for the purpose of information only.

(j) The Returning Officer shall collect all the ballot papers returned to him/her by the members up to December 10, 2016 and carry them to the venue of the Annual Conference, where they will be opened and counted by him in the presence of a Committee consisting of the President (or his nominee) and the three Secretaries. A simple majority shall determine the result of the election (in each case, the same determined by lot in case of equality of votes)

(k) The list of newly elected officers and additional members of the Council shall be announced at the General Body meeting held during the Annual Conference. The new Council shall assume charge of its office with effect from April 1, 2018.

A member will be considered to be of good standing if his/her membership fee (either life or Annual) is paid on or before July 31, 2017.

### Minutes of the Council Meeting held at Nagpur

A meeting of the Council of the Indian Mathematical Society (IMS) was held in Meeting Hall of the FAAC guest house, Kalyani on Dec. 26, 2016 at 6.00 pm. The meeting was adjourned and the adjourned meeting of the Council of the IMS was held on December 29, 2016 at 4.00 p.m. in the meeting hall of the FAAC guest house, Kalyani.

(Note: The 82<sup>nd</sup> Annual Conference of the IMS was held under the auspices of the University of Kalyani, Kalyani (W. B.) during Dec. 27-30, 2016).

The following members were present.

- |                               |                              |
|-------------------------------|------------------------------|
| 1) Prof. D. V. Pai (In Chair) | 7) Prof. S. K. Nimbhorkar    |
| 2) Prof. N. K. Thakare        | 8) Prof. Manjusha Muzumdar   |
| 3) Prof. M. M. Shikare        | 9) Prof. P. Veeramani        |
| 4) Prof. Peeyush Chandra      | 10) Prof. G. Youvaraj        |
| 5) Prof. Satya Deo.           | 11) Prof. Sanjib Kumar Datta |
| 6) Prof. J. R. Patadia        | 12) Dr. S. P. Tiwari         |

The following members could not remain present.

- |                          |                          |
|--------------------------|--------------------------|
| 1) Prof. A. M. Mathai    | 5) Dr. P. B. Vinod Kumar |
| 2) Prof. Subhas J. Bhatt | 6) Prof. A. Vijayakumar  |
| 3) Prof. Ajay Kumar      | 7) Dr. Banteshwar Tiwari |
| 4) Prof. D. S. Jamwal    |                          |

Prof. Satya Deo and Dr. S. P. Tiwari could not attend the adjourned meeting on December 29, 2016.

The following business was transacted and approved by the Council.

**Item No. 1.** Confirmation of the Minutes of the Meeting of the Council of the Indian Mathematical Society held at the meeting hall Hall of the Administrative Building of Visvesvaraya National Institute of Technology (VNIT), Nagpur on Dec. 26, 2015 at 6.00 pm. and the adjourned meeting of the Council of the IMS that was held on December 29, 2015 at 3.00 p.m. in the office of the Head, Department of Mathematics, VNIT, Nagpur.

The Minutes of the above referred Meeting of the Council of the Indian Mathematical Society were confirmed.

**Item No. 2.** To receive the report of the Local Secretary regarding arrangements made for the 81<sup>nd</sup> Annual Conference.

Prof. Sanjib Kumar Datta, Professor of Mathematics, University of Kalyani, Kalyani and the Local Organizing Secretary of the 82<sup>nd</sup> Annual Conference of the Indian Math-

ematical Society informed the Council that adequate arrangements for accommodation for about 200 delegates were made in the FAAC guest house. The Council members, invited speakers and the delegates are accommodated in this guest houses. He informed the council that the inaugural function and the pre-lunch session on the first day will take place in the auditorium of the University of Kalyani, Kalyani. The Award Lectures, Plenary talks and one hour invited talks of the program will take place in the Auditoriums and the meeting Halls of FAAC guest house. Further, he reported that the various funding agencies, namely NBHM, DST and CSIR , Govt. of India have sanctioned funds for the Conference.

**Item No. 3.** To receive the report of the General secretary for the year 2016.  
Report of the General Secretary for the year 2016.

1. The IMS News Letters - No. 35 in March 2016 and No. 36 in August 2016 - were published. They are also displayed on the website of the Indian Mathematical Society. The soft copies of these News Letters have been sent by e-mails to all the members of the Society.
2. The meeting of the Academic Planning Committee for the IMS Conference 2016 was held on Sunday, the 3rd July 2016 from 11.00 am in the conference room of the Guest House of the Savitribai Phule Pune University, Pune. The meeting was presided over by Prof. D. V. Pai. The names for four memorial award lectures, plenary talks, invited talks, list of symposia and their conveners were finalized in the meeting.
3. **A. Narasinga Rao Memorial Prize** for the year 2014 has been awarded to Dr. K. B. Mangang, Department of Mathematics and Computer Science, Mizoram University, Tanhril, Aizwal, 796004 for his paper entitled Equicontinuity of the limit function of a sequence of equicontinuous functions published in the Journal of the Indian Math Society, Vol 81 (2014), 115-121.
4. The Prof. A. K. Agarwal Award for 2015 has been awarded to Abhishek Banerjee, Department of Mathematics, Indian Institute of Science, Bengaluru for his paper Action de Hopf sur les operateurs de Hecke modulaires tordus published in the Journal of Noncommutative Geometry, Vol. 9, No. 4 (2015) , 1155 - 1173.
5. No paper was found up to the mark for the award of Prof. A. M. Mathai Award for the year 2015 .
6. **P. L. Bhatnagar Memorial Prize for 2016** has been awarded to Mr. Kapil Pause (Goa) for being the top scorer for the Indian Team at the 57th International Mathematics Olympiad (IMO) held during July 6 - 16, 2016 in Hong Kong.
7. A meeting concerning digitization of the old issues of the Journal of the Indian Mathematical Society (JIMS) was held on Monday, the 20th June 2016, at 11.00 am in the Department of Mathematics, Savitribai Phule Pune University, Pune. The meeting was attended by Prof. N. K. Thakare (General Secretary, IMS), Mr. Somshekhar Thalange (Informatics Publishing Ltd.), Prof. R. M. Kumbhar (Librarian, S. P. Pune University) and Prof. M. M. Shikare (Admn. Secretary, IMS). In the meeting the practical aspects of the digitization of the back volumes were discussed. It was decided that Prof. Kumbhar will provide to IMS the

detailed inventory of available back volumes of the JIMS in the Library of S. P. Pune University. The Volumes will be issued on the name of Prof. Shikare who will then handover them to Informatics Publishing Limited (IPL), Bangalore for digitization.

8. Prof. Kumbhar provided the inventory of 43 back volumes of JIMS published from the year 1932 to the year 1976 which are available in the Library of S. P. Pune University. These volumes have been handed over to Informatics Publishing Limited (IPL), Bangalore. The digitization is expected to be completed by the end of December 2016. The staff of the Library of S. P. Pune University, Pune extended its full cooperation in the process.
9. During the year of the report 160 new life members and 14 annual members of IMS were enrolled. 46 persons became sessional members of the IMS for 2016 conference.
10. A timely guidance and the help has been provided to Prof. Sanjib Kumar Datta, Local organizing secretary of the 2016 IMS conference pertaining to raising of funds, local arrangements and inaugural function of the conference.
11. Each Life Member of the Society is now allotted a Permanent Membership Number. The complete list of Life Members of the Society is now available on the IMS website.
12. The complete catalogue of the back volumes of the periodicals published by the Society as well as those received in exchange by the Society and available in the IMS Library, Chennai is now available on the IMS website.
13. The General Secretary thanks Prof. J. R. Patadia for maintaining and updating the website of the IMS.
14. The General Secretary thanks Prof. M. M. Shikare and Prof. S. K. Nimbhorkar for extending substantial help in performing the duties of the general secretary.

**Item No. 4.** To receive the Report of the Academic Secretary 2016.

Report of the Academic Secretary for the year 2016.

(1) The meeting of the Academic Planning Committee (APC) of the IMS was held in the meeting room of the Savitribai Phule Pune University, Pune on July 3, 2016. The following speakers/ programmes were finalized and letters of invitation were sent.

**Plenary Speaker**

1. Prof. H. Mhaskar, Claremont Graduate University, Claremont, USA.

**(a) Memorial Award lectures:**

- (i) 27<sup>th</sup> Hansraj Gupta Memorial Award Lecture, Dr. Neena Gupta, ISI, Kolkata.
- (ii) 27<sup>th</sup> V. Ramaswami Aiyer Memorial Award Lecture, Prof. C. S. Aravinda, TIFR - CAM, Bangalore.
- (iii) 30<sup>th</sup> P. L. Bhatnagar Memorial Award Lecture, Prof G. P. Rajasekhar, IIT, Kharagpur.
- (iv) 27<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture, Prof Eknath Ghate, TIFR, Mumbai.

**(b) Invited talk (One hour):**

One hour Talk

1. Prof Sanjeev Dhuradhar, IUCAA, Pune.

**(c) Invited talks (half an hour):**

2. Prof G P Singh, V N I T, Nagpur.

3. Prof S Sundar IIT Madras.

4. Prof R Thangadurai, H R I, Allahabad.

5. Prof Sudeshna Banerjee, Jadavpur University, Jadavpur.

6. Prof. D. K. Ganguly, Calcutta University, Kolkata.

7. Prof Kapil K Sharma, SAU, New Delhi.

8. Prof Uma Basu, Calcutta university, Kolkata.

As per convention the winners of A. Narsinga Rao Memorial Prize for 2014 and Prof A K Agarwal Award for 2015 were also invited to give half an hour talk. The speakers are as follows:

1. A. Narsinga Rao Memorial Prize for 2014 - Dr K B Mangang, Mizoram University

2. Prof A K Agarwal Award for 2015 - Dr Abhishek Banerjee, IISC, Benglore.

**(d) Symposia and their conveners:**

Six symposia along with their conveners were finalised and conveners were requested to invite the speakers for their symposium. Following are the details:

1. Integral Inequalities and Applications Prof. S D Kendre, S P Univ, Pune (convenor). Speakers: Professors S D Kendre, Saroj Panigrahi, H L Tidke, K Balchandran, Kishor D. Kucche

2. Advances in Complex Analysis Prof Indrajit Lahiri, Kalyani Univ (Convenor). Speakers: Professors A P Singh, Santosh B Joshi, Abhijit Banerjee, V Allu, Tarakant Nayak

3. Advances in Theoretical Fluid Mechanics Prof Manoranjan Misra, IIT Ropar (convenor). Speakers: Professors T Sahoo, S N Bora, R Usha, K C Sahu, B S Padmavathi

4. Homology Theory of Transformation Groups Prof. J. K.Maitra, R D Univ Jabalpur (Convenor). Speakers: Professors Satya Deo, Amiya Mukherjee, H K Mukherjee, H K Singh, S S Khare, A Behera

5 Nonlinear Analysis, Optimization and Applications Prof P. Veeramani, IIT Madras (convenor). Speakers: Professors V Vetrivel, D R Sahu, C S Lalitha, Joydeep Datta, Q H Ansari

6. Commutative Algebra Prof. Jugal Verma, IIT Bombay (convenor). Speakers: J K Verma, D P Patil, H Ananthnarayan, Indranath Sengupta, Neena Gupta, R Gujjar, Mousumi Mandal.

For the IMS prizes 10 papers were received : four in Group 1, one in Group 2, three in Group 4, one each for AMU Prize and V M Shah Prize. No paper was received for

Group 3, 5 and 6.

113 contributory papers were received for presentation - 11 in Section A, 11 in Section B, 32 in Section C, 17 in Section D, 5 in Section F, 6 in Section G, 1 in Section H, 3 in Section I, 9 in Section J, 10 in Section K, 2 in Section L, 1 in Section M, 5 in Section N.

**Acknowledgement** : The Academic Secretary wish to place on record my sincere thanks to all the members of APC. In particular, Prof N K Thakare and Prof Satya Deo provided valuable guidance at various stages.

**Item No. 5.** To receive the report of the Administrative Secretary for the year 2016. Report of the Administrative Secretary for the year 2016.

1. E-mails of thanks and appreciations were sent to the local organizing secretary and the convener of the 81st Annual Conference of IMS held at National Institute of Technology (NIT), Nagpur in Dec. 2015. Elected council members were informed of their elections as members of the IMS council.
2. The Minutes of the Council Meeting and the General Body meeting held at NIT, Nagpur were prepared.
3. An arrangement was made on 20th June 2016 at the Department of Mathematics, Savitribai Phule Pune University (SSPU) for holding the meeting (concerning the digitization of old volumes of JIMS) of the office bearers of IMS, the representatives of the India Publishing Limited (IPL), Bangalore and the Librarian of the S. P. Pune University, Pune.
4. Arrangements were made for holding the meeting of the Academic Planning Committee on Sunday, the 3rd July 2016 from 11.00 am in the conference room of the Guest House of the Savitribai Phule Pune University, Pune.
5. The print copies of JIMS Volume 83, nos. 1-2 (January - June 2016) and JIMS Volume 83, nos. 3-4 (July - Dec. 2016) were received from Parashuram Process, Pune and preserved in the Library of the Mathematics Department, Savitribai Phule Pune University, Pune. The camera ready copies of The Math. Student, Vol. 85 (1-2), 2016, and The Math. Student, Vol. 85 (3-4), 2016, were forwarded to the Parshuram Process for the purpose of printing. The printed copies have been received from the press and preserved in the Library of Math. Deptt., SSPU.
6. The copies of JIMS Vol. 83 (Nos. 1-2 ) (2016), Vol. 83 (Nos. 3-4)(2016) and The Mathematics Student Vol. 85 (Nos. 1-2) (2016) have been sent to the subscribing institutes and Universities by registered post. The account of corresponding expenses has been maintained.
7. The 43 copies of the back volumes of the JIMS published during 1932 and 1976 were taken into custody from the Library, S. P. Pune university, Pune. The volumes were then handed over to Mr. Somshekhar Thalange, Informatics Publishing Ltd. (IPL) on 1 / 11 / 2016 for the purpose of digitization. The digitization is in progress.
8. Substantial help was rendered to the General Secretary Prof. N. K. Thakare in the finalization of Newsletter Nos. 33 and 34. The Newsletters were prepared and sent by e-mails to the Life members of the IMS (with the help of the assistant).

9. The invitation was sent to Mr. Kapil Pause, Goa for attending the Inaugural function of IMS conference and receiving the P. L. Bhatnagar memorial prize awarded to him for the year 2016.

10. The records / documents such as minutes of the council meeting, minutes of the general body meeting, copies of the News Letters, copies of agenda for council meeting, General body meeting etc. have been maintained.

**Item No. 6.** To receive the report of the Editor, The Journal of the Indian Mathematical Society for 2016.

Report of the Editor, Journal of the Indian Mathematical Society (2016).

Manuscript Status:

(a) Number of papers pending with the referee or under process at the end of 2016:	03
(b) Number of manuscripts received during the year 2016:	70
Total:	73
(i) Number of Manuscript accepted during 2016:	16
(ii) Number of manuscript rejected during 2016:	40
(iii) Number of manuscript with the referees during 2016:	17
Total:	73

**Publication Status (print):**

1. Volume 83(1 - 2) 2016 of the Journal of the Indian Mathematical Society was released during the Inaugural function of the Society in Dec 2015 and sent to the subscribers in Jan 2016.

2. Volume 83 (3 - 4) 2016 of the Journal of the Indian Mathematical Society was released in September 2016 and sent to the subscribers.

3. 3. Volume 84 (1-2) 2017 is ready for release in Jan, 2017. It will also be sent to subscribers by January end. No backlog

**Publication status (online):**

The Informatics Private Ltd (IPL) people are ready to publish online JIMS vol 84(1-2)2017 on Jan 1, 2017. I have supplied them the complete set to be put online. The back volumes are yet to be put online

**Acknowledgements:**

The Chief Editor, JIMS puts on record his grateful thanks to the members of the Editorial Board of JIMS, referees of research papers from India and abroad for their assistance and support to JIMS. The editor also expresses his sincere thanks to the Treasurer of IMS, Prof. S. K. Nimbhorkar and the Admn. Secretary Prof. M. M. Shikare for providing valuable assistance in the printing and dispatch of JIMS to the subscribers..

**Item No. 7:** To receive the report of the Editor, Mathematics Student for 2016.

Report of the Editor of The Mathematics Student for 2016.

**Publication Status:**

The soft copy of the Vol. 85, Nos. 1- 2, January-June (2016) of The Mathematics Student was sent on line in June 2016 and that of the Vol. 85, Nos. 3- 4, July-December



(2016) of The Mathematics Student was sent on line during November 27-December 3, 2016 to all the Life Members (who have registered their E-mail id on line on imsgoes-green@gmail.com or jamanadaspat@gmail.com or sknimbhorkar@gmail.com) at their registered E-mail addresses. Both these soft copies are available on the Societys website as well.

There is no backlog as regards to the publication of the Mathematics Student.

**Manuscript Status:**

66 manuscripts are received during the period from December 24, 2015 to December 23, 2016 and 11 manuscripts were reported as pending with the referees in the last report.

Of these total 77 manuscripts, 14 are accepted, 51 are not accepted and 12 are pending with the referees.

**Acknowledgements:**

We take this opportunity to put on record our sincere thanks and profuse gratefulness to Members of the Editorial Board and the learned referees for their continuous support and assistance in our sustained efforts for timely publication of the Mathematics Student. The Society looks forward to the active assistance in the constructive reviewing work as well as quality contributions from the large pool of mathematicians from India and abroad.

We also expresses our sincere thanks to the Administrative Secretary Prof. M. M. Shikare and the Pune Press for their assistance in getting the Vol. 85, Nos. 1-2, January-June (2016) as well as the Vol. 85, Nos. 3-4, July-December (2016) of the Mathematics Student printed, and thus in its timely publication.

**Call for contributions** Contributions are welcome and are assured of all the sincere efforts for prompt processing.

**Item No. 8:** To receive the report of the Librarian of the Society for 2016.

Report of the librarian.

- (1) Received 68 Journals under the exchange program.
- (2) Old multiple copies of JIMS and The Mathematics Student have been packed and planned to move them to Pune. 18,585 copies of old volumes have been packed in 130 sacks and kept in one big room.
- (3) The college faculty, research scholars and students outside Chennai used the books and the Journals available in the IMS library.
- (4) Scanned copies of research papers were sent to mathematicians through e-mail who sought the help from the library.
- (5) The details of Journals received in the year 2015-2016 under the exchange program are available in the library.

**Item No. 9:** To consider the Audited Statement of Accounts for the year 2014 2015 and budget for the year 2016 2017.

The Audited Statement of Accounts for the year 2014 - 2015 and budget for the year 2016 - 2017 presented by the Treasurer, Prof. S. K. Nimbhorkar, is approved.

**Item No. 10 :** To appoint Auditors to audit the accounts of the Society for the year 2016 - 2017.

M/S. Indapurkar and Mundada, Calda Corner, Aurangabad, were appointed as Auditors to audit the accounts of the Society for the year 2016 - 2017.

**Item No. 11:** To appoint judges for the Paper Presentation Competitions for the award of various prizes.

Prof. Peeyush Chandra, Prof. Manjul Gupta, Prof. J. R. Patadia and Prof. M. M. Shikare were appointed as judges for the Paper Presentation Competitions for the award of various prizes.

**Item No. 12:** To consider the programme of IMS sponsored lectures for the year 2017.

The Council decided that the programme of IMS sponsored lectures be continued for the year 2017.

**Item No. 13:** To consider the venue of the Annual Session of the next Conference.

The Council accepted the firm invitation from the Registrar, Sri Venkateswara University, Tirupati (A. P.) for organizing the 83rd Annual Conference of the Indian Mathematical Society. Prof. S. Sreenadh, Department of Mathematics, Sri Venkateswara University will be the Local Organizing Secretary.

**Item No. 14:** To constitute Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2017.

The Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2017 will consist of the following members: President; General Secretary, Academic Secretary, Editor, JIMS; Editor, The Mathematics Student; Administrative Secretary, and the Treasurer.

**Item No. 15:** To record a vote of thanks to the retiring members of the Council

The council put on record a vote of thanks to the retiring members of the Council, Prof. Ambat Vijayakumar, Cochin; Prof. Dalip Singh Jamwal, Jammu; Prof. Subhash J. Bhatt, Vallabh Vidyanagar (Gujarat) and Prof. Ajay Kumar (Delhi) for their contributions to the Society.

**Item No. 16:** To receive the report of the returning officer.

The returning officer Prof. M. M. Shikare reported that the following members are declared elected.

President for 2017-18 : Prof. Manjul Gupta, IIT, Kanpur for a period of one year with effect from April 01, 2017.

Members of the Council for a period of three years w. e. f. April 1, 2017 :

Dr. G. P. Singh, VNIT, Nagpur; Prof. S. S. Khare, North Eastern Hill University, Shillong; and Prof. Raj Shekhar Reddy of Tirupati University, Tirupati (A. P.) for election of members of the Council for three years beginning from the year April 1, 2017.

**Item No. 17:** To finalize the nomination of the Council for election to the office of the President of the Society for the year 2018 2019.

The Council nominated Prof. Sudhir Ghorpade, IIT, Mumbai for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2018.

**Item No. 18:** Appointment of the Librarian (at Pune) by the Council

It has been decided that a part time Librarian be appointed at Pune to look after the Journals received under the exchange programme, periodicals published by the IMS and the books donated by the mathematicians to the IMS.

**Item No. 19 :** Appointment of secretarial Assistant at the IMS office, Pune

It is decided that only one person be appointed in such a way that he will work as a part time librarian ( referred in Item no. 18) as well as a secretarial assistant at the IMS office, Pune.

**Item No. 20:** To finalize nominations for the Council for election of members of the Council (against the vacancies caused by item (13)) for three years beginning from the year April 1, 2018.

The council nominated Prof. Sanjib Kumar Datta, Kalyani; Prof. Asma Ali, A. M. U; and Prof. G. P. Rajasekhar, IIT, Kharagpur for election of members of the Council for three years beginning from the year April 1, 2018.

**Item No. 21:** Report on the progress of Meenakshi Sundaram Patoudi lectures.

The details of Meenakshisundaram - Patoudi lectures given in 2016 are as follows:

(1) A series of the following three lectures was given at Lucknow University (i) Recent Trends in Planar Harmonic Mappings, Dr. Sayali S. Joshi, Sanjay Bhokare College of Engg., Miraj, MS. (17.08.15) (ii) Geometric Structure on Statistical Manifold, Prof. M. Sitaramayya, University of Hyderabad, Hyderabad (21.11.15) (iii) A brief History about both mathematicians, Prof. M. Sitaramayya, University of Hyderabad, Hyderabad (22.11.15)

(2) Prof. S. S. Bhoosnurmath, Dept of Maths., Karnatak University, Dharwad delivered TWO lectures on Analysis at the Dept. of Maths., Dr. B. A. M. University, Aurangabad on 1/2/2016. (3) Dr. Hemant Bhate, Pune University delivered a lecture on "Fourier Analysis on Finite Groups" at Shivaji University, Kolhapur on 29/2/2016 4) Prof. K. D. Joshi delivered a lecture on Discrete optimization problems at Shivaji University, Kolhapur on 29/2/2016 5) Prof. Sudhir Ghorpade delivered a lecture at Sadguru Gadge Maharaj College, Karad on 15th September 2015.

**Item No. 22:** To create convention for tenure of the General Secretary, Academic Secretary, Treasurer; Editor, JIMS and Editor, The Mathematics Student.

The matter was discussed in the meeting. It has been noted that experiences of the office bearers such as Treasurer, Editors of periodicals, Administrative Secretary are useful in handling the corresponding issues effectively.

**Item No. 23:** To consider any other item with the permission of the chair.

(A) Proposal for instituting Satish C. Bhatnagar Award

The proposal from Prof. Satish C. Bhatnagar, Department of Mathematical Sciences, University of Nevada, Las Vegas, NV 89154-4020, USA for instituting Satish C. Bhatnagar Award for the Best publication in History of Mathematics of India (before 1192 AD) in any journal of the world was discussed and approved. The details pertaining to this award is as follows.

1. Name of the Award : Satish C. Bhatnagar Award for the Best publication in History of Mathematics of India (before 1192 AD) in any journal of the world.

2. Amount of Donation: Rs. 2.00 lakhs (Rs. Two lakhs only)

3. Conditions of Award:

(a) The paper should be in the area of History of Mathematics focusing on a person, problem, reign, or system of education or government.

(b) The paper should be in single authorship. In exceptional cases, the paper by two authors could be considered. In this event, the prize amount will be equally divided. The author/s should not submit more than one publication for this award.

(c) The minimum age limit is 35 years on 31st December of the year of award and there is no limits of citizenship.

(d) The papers considered must have been published either online or in print version whichever is earlier during the previous year of the year in which award is being given. The paper must have been published in an internationally refereed journal. More weightage could be given to well established journals.

(e) Anyone who has a masters degree in mathematical sciences and Ph.D. in any other area (including history, political science, Sanskrit, archaeology, Indology etc.) is eligible to submit the paper.

(f) If there is no good quality paper in a particular year, then the award need not be given in that year.

4. Modus Operandi:

(a) The papers from all the contestants are to be judged by at least three experts with impeccable record as historians of mathematics before finalizing by consensus the winner of the award.

(b) The experts may be named by the General Secretary in consultation with the President, the Academic Secretary and the two Editors of JIMS and MS.

(c) The decision of the IMS shall be final and shall not be challenged in court of law.

5. The Award : (a) The award shall consist of a citation and a cash prize of Rs. 5,000- 15,000 /-(Rs. Five to Fifteen thousand only). (Flexibility is important to the extent that ideally, no year be a blank year)

(b) The awardee/s shall be paid traveling allowance to the extent of II AC rail fare from the place of residence in India to the venue of the Annual Conference and back. This expenditure shall be incurred by the host institution that organizes the Annual Conference during the year of award. (Under no conditions, travel expense be taken out of the prize endowment)

(c) The awardee/s shall be provided free local hospitality and accommodation.

(B) IMS membership charges

It is decided that for foreigners, the IMS life membership charges should be as per the following details:

(i) Foreigners : US \$ 300

(ii) Foreign Senior Citizens (60 years and above) : US \$ 100

(iii) Persons from SAARC countries : INRs. 2500/-

(C) Poster presentation session be included in the IMS Conference programme: It has been agreed upon the fact that the poster presentation session be included in the programme of the annual conference of the IMS.

The meeting of the council ended with vote of thanks to the chair and to the local organizers of the conference.

N. K. Thakare  
General Secretary  
Indian Mathematical Society

### NOTICE OF THE ANNUAL GENERAL BODY MEETING

The Annual General Body Meeting of the Indian Mathematical Society will be held on Friday, December 15, 2017 at 12.00 noon in the Department of Mathematics, Sri Venkateswara University, Tirupati (A. P.) to consider the following agenda.

All the members of the Society are requested to kindly attend the meeting.

### AGENDA

1. To confirm the Minutes of the General Body Meeting held on December 30, 2016 at University of Kalyani, Kalyani (W. B.).
2. To receive the report of the General Secretary for 2017.
3. To receive the report of the Academic Secretary for 2017.
4. To receive the report of the Administrative Secretary for 2017.
5. To consider the Audited Statement of Accounts for the year 2016-2017 and the Budget for the Financial Year 2018-2019.
6. To receive the report of the Editor of the Journal of the Indian Mathematical Society for 2017.
7. To receive the report of the Editor of the Mathematics Student for 2017.
8. To consider the venue of the 84<sup>th</sup> Annual Session of the Society to be held in December 2018.
9. Announcement of the results of the following elections:
  - (i) President for 2018-2019;
  - (ii) Three members of the Council for a period of three years w. e. f. April 01, 2018.
10. Any other item with the permission of the chair.  
(Members in good standing are entitled to exercise vote.)

N. K. Thakare  
General Secretary, IMS.  
C/o Center for Advanced Study in Mathematics,  
Savitribai Phule Pune University, Pune

**Highlights of the Academic Programme of the ensuing Conference at Sri Venkateswara University, Tirupati (A. P.) during December 12-15, 2017**

**1. Plenary Lectures : Two**

The Plenary Lecture will be delivered by

- (i) Prof. Wehrung, France.
- (ii) Prof. Rajeeva L. Karandikar, CMI

Title of the talk: On Partial Differential Equations and Diffusion Processes

**2. IMS Memorial Award Lectures :**

- 1 The 31<sup>st</sup> P. L. Bhatnagar Memorial Award Lecture will be delivered by Prof Pradeep G Siddeshwar, Bangalore University, Bangalore.

Title of the talk: Understanding understood instabilities in fluids!

- 2 The 28<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture will be delivered by Prof Amritanshu Prasad, IMS, Chennai.

Title of the talk: The timed plactic monoid

- 3 The 28<sup>th</sup> V. Ramaswamy Iyer Memorial Award Lecture will be delivered by Prof. H. K. Mukherjee, NEHU, Shillong.

Title of the talk: Classification of manifolds different shades

- 4 The 28<sup>th</sup> Hansraj Gupta Memorial Award Lecture will be delivered by Prof. Atul Dixit, IIT, Gandhinagar.

Title of the talk: Modular-type transformations and integrals involving the Riemann  $\chi_i$  -function

- 5 The 13<sup>th</sup> Ganesh Prasad Memorial award lecture will be delivered by Prof P. V. Jain, RDVV, Jabalpur.

Title of the talk: Approximation by Spline Function and its applications

**3. Half an hour Invited Talks:**

- 1 Prof M. Mursaleen, AMU, Aligarh.

Title of the talk: Approximating functions by summability methods

- 2 Prof Mohd, Ashraf, AMU, Aligarh .

Title of the talk: Nonlinear higher derivations on Algebras with applications

- 3 Prof A. K. Das, SMVD University, Jammu.

Title of the talk: Factorizations of some topological properties

- 4 Prof Ranajan Jana, SVNIT, Surat .

Title of the talk: Extended Wright type hypergeometric Functions: some recent developments

- 5 Prof Y. M. Borse, S. P. Pune University.  
Title of the talk: Decomposition of Hypercubes
- 6 Prof P. D. Srivastava, IIT, Kharagpur.  
Title of the talk: Spectrum of  $n^{th}$  band infinite matrix

4. **Symposia:**

A. **Function Spaces and Inequalities,**

Convener: Prof Pankaj Jain, SAU, New Delhi.

Speakers:

Prof. E. Malkowsky, State University of Novi Pazar, Novi Pazar, Serbia  
Prof. M. Mursaleen, Aligarh Muslim University, Aligarh 202002  
Prof. R. Radha, IIT, Madras, Chennai 600 036  
Prof. Rama Rawat IIT, Kanpur, Kanpur 208 016  
Dr. Arun Pal Singh, Dyal Singh College (Uni. of Delhi), Lodhi Road, New Delhi-1100

B. **Mathematical Biology ,**

Convener: Prof P. Kandaswamy, Coimbatore.

Speakers:

Prof Girija Jayaraman, (Retd) IIT, Delhi  
Prof P. Srinivasu, Andhra University  
Dr Debaldev Jana, SRM, Chennai  
Prof G. Radhakrishnamacharya, NIT, Warangal  
Prof Maithly Saran, IIT, Delhi

C. **Interactions of Algebra and Discrete Mathematics ,**

Convener: Prof B. N. Waphare, S. P. Pune University

Speakers:

Matjaz Kovse (Slovenia), Visiting Asso. Professor, IIT, Bhubaneswar  
Pratima Panigrahi, Asso. Professor, IIT, Kharagpur  
Manoj Changat, Professor, University of Kerala  
Lavanya Sivkumar, Assist. Professor, IIT(BHU), Varanasi

D. **Group Theory ,**

Convener: Prof Manoj Yadav, HRI, Allahabad

Speakers:

Prof. Gurmeet K. Bakshi (Panjab University, Chandigarh)  
Prof. S. G. Dani (IIT, Bombay, Mumbai)  
Prof. Ravi Rao (TIFR, Mumbai)  
Prof. P. Sankaran (IMSc., Chennai)  
Prof. B. Sury (ISI, Bangalore)

E. **Emerging Topics in Differential Equations ,**

Convener: Dr. Syed Abbas, IIT, Mandi.

Speakers:



Dr. Saroj Panigrahi, University of Hyderabad  
Prof. V. Raghavendra, IIT Tirupati  
Prof. Varsha Daftardar-Gejji, S. P. Pune University  
Prof. Nandakumaran, IISc, Bangalore  
Dr. Sakthivel Kumarasamy, Indian Institute of Space Sc. and Technology

**F. Dynamics, Chaos and Fractals ,**

Convener: Prof M. Guru Prem Prasad, IIT Guwahati

Speakers:

Prof. Sunita Gakkhar, IIT, Roorkee

Prof. A. K. B. Chand, IIT, Madras

Dr. Tarakanta Nayak, IIT, Bhubaneswar

Prof. M. Guru Prem Prasad, IIT, Guwahati

THERE SHALL BE POSTER PRESENTATION SESSIONS ON THE THEMES OF THE SYMPOSIA ARRANGED AT THE VENUES OF THE RESPECTIVE SYMPOSIA.

**Instructions for Poster Presentation**

All interested scholars should send the Abstract along with full paper to Convener of the symposium as well as to Academic Secretary acadsecrims@gmail.com. Thereafter the conveners will opine on the suitability of the presentation and based on the convener's recommendation, Academic Secretary will convey the acceptance to the delegates.

**NEWS AND ANNOUNCEMENTS**

**\* Guidelines for acceptance of Donations to the Society**

1. There will not be any further institution of Memorial Award Lectures. (This point was discussed in the earlier meetings of the Council and such was the consensus).
2. The donation amount will not be less than Rupees Five Lakh. (There could be an upward revision of this amount from time to time).
3. The donor may be an individual or a trust or a group of individuals.
4. The Indian Mathematical Society will solely and independently own the amount donated to it.
5. A prospective donor should approach the General Secretary of the Indian Mathematical Society with a Offer. Keeping with the spirit of this Policy Guide lines and if so felt necessary, referring to the Council whether the proposal be negotiated or not, in his wisdom, the General Secretary will negotiate the terms and conditions for each donation proposal and will put it before the Council for its consideration and approval. The Council will deliberate on the proposal, and after modifications, if any, may accept the proposal through a special resolution with specific details mentioning the terms and conditions. This will be published in the IMS News Letter after the Donor agrees to the resolution of the Council.

6. Ordinarily during every Annual Conference of the Society there are several Invited Lectures and Symposia running in parallel sessions. One of these academic programmes may be permanently marked / identified as “so and so sponsored programme in the (fond) memory of ” or “so and so sponsored programme in the honor of ” as per the wish of each donor by the Council. This programme may be arranged in a parallel session during the Conference.
7. Each year, the Council through its Academic Planning Committee (APC) will be the final authority in this regard to finalize the name of a speaker of an invited talk or the names of the symposium speakers for this sponsored programme. The modus operandi for identifying the speaker(s) may be decided by the Council. The invited speaker(s) will be the guest of the host institution. In case of an honorarium, if any, to the invited speaker, the amount of the honorarium will not exceed the honorarium amount for the existing Memorial Award Lectures.
8. Ordinarily train travel to the extent of AC-2 Tier be reimbursed. However, in special cases the domestic air travel may be considered.
9. Notwithstanding the above
  - (A). An offer of a donation with a stipulated purpose (not as part of the corpus), may be accepted by the Council on its merit.
  - (B). An offer of a donation of any amount in general, without any stipulated conditions, may be accepted by the Council on its merit as a part of the General Purpose Corpus.

The Council reserves its right whether or not a particular donation be accepted.

**\* Green initiative taken by the Society A fervent appeal to all members of the Society**

As a part of the “Green Initiative” taken by the Society (for further details, refer Society’s website [www.indianmathsociety.org.in](http://www.indianmathsociety.org.in)), the Council of the Society has decided to send on line the soft copy of the Mathematics Student / give on line access to the Mathematics Student to all the Life members instead of supplying the hard copy. For this purpose, all the members of the Society are requested to register their e-mail address on line, along with Name and the Unique Membership Number therein, to J. R. Patadia on [imgoesgreen@gmail.com](mailto:imgoesgreen@gmail.com) or [jamanadaspat@gmail.com](mailto:jamanadaspat@gmail.com) so that further necessary action can be taken.

**\* Yves Meyer Awarded Abel Prize for 2017**

The Norwegian Academy of Science and Letters has awarded the 2017 Abel Prize to Yves Meyer of Ecole Normale Superieure Paris-Saclay, France, for his pivotal role in the development of the mathematical theory of wavelets. The Abel Prize recognizes contributions of extraordinary depth and influence to the mathematical science and has been awarded annually since 2003. It carries a cash award of US Dollars 7,15,000.

**\* P. L. Bhatnagar Memorial Prize for 2017**

The 58<sup>th</sup> International Mathematical Olympiad (IMO) was held in Rio de Janeiro, Brazil from July 12 to 23, 2017. Among the members of the Indian team, Anant Mudgal (Faridabad), Shubham Saha (Ranchi) and Yash Sanjeev (Kota) received Bronze medals in the 58<sup>th</sup> IMO.

The above three students were top scorers (each of them scored 18 points) at IMO from the Indian team. They will be awarded the P. L. Bhatnagar Memorial Prize of the Indian Mathematical Society for the year 2017. The prize carries a cash of Rs. 1000/- and a certificate. The Prize will be awarded to them in the Inaugural Session of the ensuing 83<sup>rd</sup> Annual Conference of the Society on December 12, 2017 at Sri Venkateswara University, Tirupati (A. P.).

**\* The List of Life Members of the IMS is displayed on the website of the Society**

The Complete List of the Life Members of the Society is available on the IMS website along with their Membership Numbers. Members whose mails have been returned undelivered are marked accordingly with a note in red along with their names on the IMS website.

*Society looks forward to their correct addresses.*

Members are requested to quote their membership number while communicating change of addresses, etc.

Any change or modification in the address and an e-mail id may please be communicated to the Treasurer, IMS, Prof. S. K. Nimbhorkar (if electronically, then on sknimbhorkar@gmail.com).

**\* Indian Science Congress Association (ISCA)- Annual Sessions**

The 105<sup>th</sup> Session of the Indian Science Congress Association will be held at Osmania University, Hyderabad during 3-7 January 2018. The Focal Theme of the Session will be "Science and Technology - Reaching the Unreached". Prof. Achyuta Samanta, founder of Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar, is the General President.

**\* Prof. Maryam Mirzakhani passed away**

Prof. Maryam Mirzakhani, first woman to win Fields Medal in Mathematics, died of cancer on July 15, 2017 in USA. We pray God that may her soul rest in peace.

**\* Prof. H. P. Dixit passed away**

Prof. H. P. Dixit, past president of the Indian Mathematical Society and former Vice Chancellor of several universities including IGNOU, passed away on April 29, 2017 in Gorakhpur. Prof. Dixit was a great well-wisher of all of us and an excellent administrator and a mathematician. We offer our heartfelt condolences to the family members of late Prof. Dixit. May the departed soul rest in peace.

## INDIAN MATHEMATICAL SOCIETY

Council Members 2017 - 18

1. Prof. Manjul Gupta, **President**  
Indian Institute of Technology,  
Kanpur (U. P.)  
e-mail: manjul@iitk.ac.in
2. Prof. D. V. Pai, **Immediate Past President**  
Indian Institute of Technology, Gandhinagar (Gujarat)  
e-mail: dvp@iitg.ac.in
3. Prof. N. K. Thakare, **General Secretary**  
C/o : Department of Mathematics  
Savitribai Phule Pune University, Pune 411 007 (MS), India.  
E-mail : nkthakare@gmail.com
4. Prof. Peeyush Chandra, **Academic Secretary**  
Retired Professor, IIT, Kanpur.  
E-mail : acadsecrims@gmail.com
5. Prof. M. M. Shikare, **Administrative Secretary**  
c/o Department of Mathematics  
Savitribai Phule Pune University, Pune 411 007 (MS), India.  
e-mail : mmshikare@gmail.com
6. Prof. S. K. Nimbhorkar, **Treasurer**  
Department of Mathematics  
Dr. B. A. M. University  
Aurangabad 431 004 (MS), India.  
e-mail : sknimbhorkar@gmail.com
7. Prof. Satya Deo, **Editor, J. Indian Math. Soc.**  
HRI, Chhatnag Road, Jhusi  
Allahabad - 211 019 (UP), India.  
e-mail : sdeo94@gmail.com .
8. Prof. J. R. Patadia, **Editor, The Mathematics Student**  
(Department of Mathematics, The M. S. University of Baroda)  
5, Arjun Park, Near Patel Colony, Behind Dinesh Mill  
Shivananda Marg, Vadodara 390 007 (Gujarat), India.  
e-mail : jamanadaspat@gmail.com
9. Prof. G. P. Youvaraj, **Librarian**  
The Ramanujan Inst. for Advanced Study in Mathematics,  
University of Madras, Chennai-600006.
10. Dr. P. B. Vinod Kuma  
RSET, Rajagiri Valley, Cochin-682 039  
Email: vinod\_kumar@rajagiritech.ac.in
11. Prof. Manjusha Mujumdar(Tarafdar)  
Department of Pure Mathematics  
Calcutta University  
35 Bellygunj Road  
Kolkatta-700019.  
e-mail : drmanjushamujumdar@gmail.com

12. Prof. Banktेशwar Tiwari  
Department of Mathematics  
Faculty of Science, Banaras Hindu University  
Varanasi 221 005.  
e-mail : banktesht@gmail.com
13. Dr. S. P. Tiwari,  
Department of Mathematics,  
Indian School of Mines,  
Dhanbad.  
e-mail: sptiwarimaths@gmail.com
14. Prof. P. Veermani,  
IIT, Madras (Chennai).  
e-mail: pvmani@iitm.ac.in
15. Prof. G. P. Singh  
VNIT, Nagpur  
e-mail: gpsingh@mth.vnit.ac.in
16. Prof. S. S. Khare  
North Eastern Hill University  
Shilong  
e-mail: sskhare@rediffmail.com
17. Prof. Raj Shekhar Reddy  
Sri Venkateswara University  
Tirupati  
e-mail: putharsr@yahoo.co.in

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