



INDIAN



MATHEMATICAL



SOCIETY

## INDIAN MATHEMATICAL SOCIETY

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

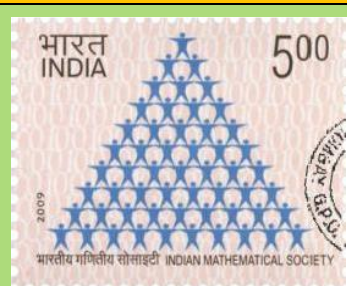
Registered Office: Department of Mathematics,  
Savitribai Phule Pune University, Pune-411007

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

### NEWSLETTER

NO. 40

August – 2018



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. 40**

**August, 2018**

**84<sup>th</sup> ANNUAL CONFERENCE OF IMS  
(November 27-30, 2018)**

The '84<sup>th</sup> Annual Conference of IMS - an International meet' will be held under the auspices of Department of Mathematics, Shri Mata Vaishno Devi University (SMVDU), Jammu during November 27-30, 2018 under the Presidentship of Prof. Sudhir Ghorpade Dept. of Mathematics, IIT Bombay, Powai, Mumbai..

Prof. A. K. Das Dept. of Mathematics, SMVDU is the Local Organizing Secretary of the Conference. Correspondence pertaining to arrangements for accommodation etc. at Shri Mata Vaishno Devi University (SMVDU) during the Conference should be addressed to Prof. A. K. Das. His e-mail address is *ak.das@smvdu.ac.in*.

**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 and .tex format) to the Academic Secretary, Prof. Peeyush Chandra (Email: acadsecrim@gmail.com), so as to reach him not later than October 15, 2018.
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, 2018. After this date, applications for becoming a Sessional member will be accepted only at the venue of the Conference at Shri Mata Vaishno Devi University (SMVDU), Jammu during November 27-30, 2018.

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 2015 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.

For the year 2016 the award was awarded to Sudhanshu Sekhar Rout, Department of Mathematics, National Institute of Technology, Rourkela, Odisha, for his research paper “Balancing non-Wieferich primes in arithmetic progression and abc conjecture” published in Proc. Japan Acad., 92, Series A (2016).

**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 31<sup>st</sup> 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 and .tex format)** should reach Prof. Peeyush Chandra on the e-mail address given earlier not later than October 15, 2018. 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 and .tex 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, 2018 (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 - 411007) 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 - 431004 (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 - 600005 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 - 600005.  
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. Rajendra Bhatia, Ashoka University for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2019

Prof. Nita Shah (Ahmedabad) and Prof. Ahmed Ali (Lucknow) for election of members of the Council for three years beginning from the year 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, 2018.

**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 12, 2018. 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 12, 2018. 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 12, 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 November 25, 2018 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, 2018.

### Minutes of the Council Meeting held at Tirupati

A meeting of the Council of the Indian Mathematical Society(IMS) was held in the Meeting Hall of the Department of Mathematics, Sri Venkateswara University (SUV), Tirupati on December 11, 2017 at 6.00 pm. The meeting was adjourned and the adjourned meeting of the Council of the IMS was held on December 13, 2017 at 4.00 p.m. in the meeting hall of the Department of Mathematics, Sri Venkateswara University, Tirupati

(Note: The 83<sup>rd</sup> Annual Conference of the IMS was held under the auspices of the Sri Venkateswara University, Tirupati during Dec. 12-15, 2017).

The following members were present.

- |                                  |                                    |
|----------------------------------|------------------------------------|
| 1) Prof. Manjul Gupta (In Chair) | 6) Prof. J. R. Patadia             |
| 2) Prof. N. K. Thakare           | 7) Prof. Manjusha Muzumdar         |
| 3) Prof. M. M. Shikare           | 8) Prof. P. Veeramani              |
| 4) Prof. Peeyush Chandra         | 9) Prof. G. Youvaraj               |
| 5) Prof. Satya Deo.              | 10) Prof. S. Sreenadh (Local Sec.) |

The following members could not remain present.

- |                              |                       |
|------------------------------|-----------------------|
| 1) Prof. D. V. Pai           | 5) Prof. S. P. Tiwari |
| 2) Prof. S. K. Nimbhorkar    | 6) Prof. G. P. Singh  |
| 3) Dr Banktेशwar Tiwari      | 7) Prof. S. S. Khare  |
| 4) Prof. P. Rajasekhar Reddy |                       |

Prof. S. K. Nimbhorkar attended the adjourned meeting on Dec. 13, 2017 while Prof. G. Youvaraj could not attend this meeting.

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 in the Meeting Hall of the FAAC guest house, Kalyani on December 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.

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 83<sup>rd</sup> Annual Conference.

Prof. S. Sreenadh, the Local Organizing Secretary of the 83<sup>rd</sup> Annual Conference of the Indian Mathematical Society informed the Council that adequate arrangements

for accommodation for about 150 delegates were made in various guest houses. The Council members, invited speakers and the delegates are accommodated in the guest houses of the S. V. University; Mahila University, guest house; and ICMR guest house. He informed the council that the inaugural function and the pre-lunch session on the first day will take place in the auditorium of Sri Venkateswara University. The Award Lectures, Plenary talks and one hour invited talks of the program will take place in the halls adjacent to the Department of Mathematics of SVU. Further, he reported that NBHM, CSIR and INSA have sanctioned funds for the Conference.

**Item No. 3 :** To receive the report of the General Secretary for 2017.

Report of the General Secretary for 2017.

1. The IMS News Letters No. 37 and No. 38 were published in March 2017 and in August 2017, respectively. These 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.  
Prof. Manjul Gupta was informed that she has been elected as the president of IMS for one year with effect from April 1, 2018. The elected council members were intimated of their elections to the council of the IMS. Letters of thanks to those who delivered invited lectures, plenary talks, symposia participants were sent. Letters of thanks were sent to the council members and the President of the IMS who retired on March 31, 2017.
2. The meeting of the Academic Planning Committee for the IMS Conference 2017 was held on Sunday, the 2<sup>nd</sup> July 2017 from 11.00 a.m. to 1.00 p.m. in the conference room of the Guest House of the Savitribai Phule Pune University, Pune. The meeting was presided over by Prof. Manjul Gupta, the president of the IMS. The names for the five 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 2015 is awarded to Dinesh Kumar, Deen Dayal Upadhyay College, University of Delhi, Delhi 110007 for his research paper entitled "On dynamics of semiconjugated entire functions" published in the JIMS Vol. 82 (1-2), 2015, pp 53-59.
4. **A. Narasinga Rao Memorial Prize** for the year 2016 has been awarded to Abhishek T. Bharadwaj, Chennai Mathematical Institute, H1 SIPCOT Park, Siruseri Kelambakkam, Chennai-603103 for his research paper entitled "Fatou's Lemma and integrability criteria in number fields" published in The Mathematics Student, Vol. 85 (3-4), 2016. pp 25-32.
5. **Prof. A. K. Agarwal Award** for the year 2016 has been awarded to Sudhan-shu Sekhar Rout, Department of Mathematics, National Institute of Technology, Rourkela, Odisha, for his research paper "Balancing non-Wieferich primes in arithmetic progression and abc conjecture" published in Proc. Japan Acad., 92, Series A (2016).
6. **Prof. A. M. Mathai Award** for best research paper published in the year 2016 (in the area of Applicable Mathematics) has been awarded to Mr. Abhik Ghosh,

Interdisciplinary Statistical Research Unit, Indian Statistical Institute, Kolkata for his paper “Divergence based robust estimation of the tail index through an exponential regression model” published online on 18 July 2016 in Stat Methods Applications.

7. Only one paper was received for Prof. Satish Bhatnagar Award for the year 2016. However, the paper did not meet the conditions formulated to give the award and therefore the award is not given to any one.
8. **P. L. Bhatnagar Memorial Prize** for 2017 is given to Anant Mudgal (Faridabad), Shubham Saha (Ranchi) and Yash Sanjeev (Kota). The 58<sup>th</sup> International Mathematical Olympiad (IMO) was held in Rio de Janeiro, Brazil from July 12 to 23, 2017. In the Indian team the above three students were top scorer (each of them scored 18 points) at IMO.
9. Digitization of 43 back volumes of JIMS published from the year 1911 to the year 1976 have been completed by the Informatics Publishing Ltd., Bangalore. The digitized volumes are available at online. The JIMS volumes published from the year 1977 to the year 2004 have been retrieved from the IMS Library housed at Ramanujan Institute for Advanced Study in Mathematics, Madras University, Chennai. These volumes have been handed over to the representative of the Informatics Publishing Ltd. The digitization of these volumes is expected to be completed within the next two months.
10. During the year of the report 120 new life members of IMS have been enrolled, besides . persons became sessional members of the IMS for 2017 conference.
11. A timely guidance and the help has been provided to Prof. S. Sreenadh, Local organizing secretary of the 2017 IMS conference pertaining to raising of funds, local arrangements and inaugural function of the conference.
12. 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
13. 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.
14. The General Secretary thanks Prof. J. R. Patadia for maintaining and updating the website of the IMS.
15. 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 for the year 2017.

Report of the Academic Secretary for the year 2017.

Based on the deliberations during the APC meeting held on July 2, 2017 at the SP Pune University, Pune, and in consultations with the General Secretary the speakers for

Plenary talk, Memorial Award Lectures and Half an hour Invited talks were finalized and letters of invitation were sent to the following:

**Memorial Award lectures:**

- (i) 31<sup>st</sup> P. L. Bhatnagar Memorial award lecture: Prof Pradeep G Siddeshwar, Bangalore University, Bangalore.
- (ii) 28<sup>th</sup> Hansraj Gupta Memorial award lecture: Prof. Atul Dixit, IIT Gandhinagar.
- (iii) 28<sup>th</sup> Srinivasa Ramanujan Memorial award lecture: Prof Amritanshu Prasad, IMSc, Chennai.
- (iv) 28<sup>th</sup> V. Ramaswamy Aiyer Memorial award lecture: Prof. H. K. Mukherjee, NEHU, Shillong.
- (v) 13<sup>th</sup> Ganesh Prasad Memorial award lecture: Prof P. V. Jain, RD University, Jabalpur.

**Plenary Talks:**

Prof F. Wehrung (France)

**Invited Speakers for Half an hour talks:**

1. Prof M. Mursaleen, AMU, Aligarh.
2. Prof Mohd, Ashraf, AMU, Aligarh.
3. Prof A. K. Das, SMVD University, Jammu.
4. Prof Ranjan Jana, SVNIT, Surat.
5. Prof Y. M. Borse, S. P. Pune University.
6. Prof P.D. Srivastava, IIT Kharagpur.
7. Prof Om Ahuja, Kent State University, USA.
8. Prof Srinivas, I M Sc Chennai.
9. Prof David Levin, Tel Aviv University.

**Following symposia were finalized with conveners as mentioned below:**

1. Functions spaces and Inequalities : Convener - Prof Pankaj Jain, SAU New Delhi.
2. Mathematical Biology: Convener - Prof P. Kandaswamy, Coimbatore.
3. Interactions of Algebra and Discrete Mathematics: Convener - Prof B N Waphare, SP Pune Univ.
4. Group Theory: Convener - Dr Manoj K. Yadav, HRI, Allahabad.
5. Emerging Topics in Differential Equations: Convener - Prof. S. Abbas, IIT Mandi.
6. Dynamics. Chaos and Fractals: Convener - Prof M. Guru Prem Prasad, IIT Guwahati.

The conveners finalized the speakers for each of the symposia in consultation with me and the final list of speakers is as follows:

1. 'Function Spaces and Inequalities'  
Speakers - Professors E. Malkowsky, Serbia, M. Mursaleen, AMU, R. Radha, IIT

Madras, A. Sofi, Srinagar, Arun Pal Singh, New Delhi, Pankaj Jain, SAU, New Delhi.

2. 'Mathematical Biology'

Speakers - Professors Girija Jayaraman, (Retd) IIT Delhi, Mini Ghosh, VIT Chennai, Debaldev Jana, SRM, Chennai, G Radhakrishnamacharya NIT Warangal, Maithly Saran, IIT Delhi, P Kandaswamy, Coimbatore.

3. 'Interactions of Algebra and Discrete Mathematics'

Speakers - Professors Matjaz Kovse, IIT, Bhubeneshwar , Pratima Panigrahi, IIT, Kharagpur, . Manoj Changat, University of Kerala, Lavanya Sivkumar, IIT(BHU), B. N. Waphare S. P. Pune University.

4. 'Group Theory'

Speakers - Professors G. K. Bakshi - Panjab University, Chandigarh, NSN Sastry- IIT Dharwad, P. Sankaran- IIMSc.Chennai, B. Sury - ISI, Bangalore, Manoj K. Yadav - HRI, Allahabad.

6. 'Emerging Topics in Differential Equations'

Speakers - Professors V. Raghavendra, IIT Trupati, Varsha Daftardar-Gejji, S P Pune Univ., Nandakumaran, IISc Bangalore, K. Sakthivel, IISST, Trivendrum, S. Abbas, IIT Mandi.

7. 'Dynamics, Chaos and Fractals'

Speakers - Professors Sumita Gakkhar, IIT Roorkee, A. K. B. Chand, IIT Madras, Srijanani A. Prasad, IIT Tirupati, Tarakanta Nayak, IIT Bhubaneswar, Prof. M. Guru Prem Prasad, IIT Guwahat.

**Papers for Competition section** - 18 papers have been received for competition section: It is proposed that we have two parallel sessions for competition this year - Session one for AMU, VM Shah Prize, GR 1 and Gr 4, Session 2 for Gr 5.

**Contributory Paper**- 128 papers have been received for oral presentations.

**Item No. 5** : To receive the report of the Administrative Secretary of the Indian Mathematical Society for the year 2017.

1. E-mails of thanks and appreciations were sent to the local organizing secretary and the convener of the 82<sup>nd</sup> Annual Conference of IMS held in December 2016 at University of Kalyani, Kalyani, West Bengal. 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 the University of Kalyani, Kalyani were prepared

3. Arrangements were made for holding the meeting of the Academic Planning Committee on Sunday, the 2<sup>nd</sup> July 2017 from 11.00 am onwards in the conference room of the Guest House of the Savitribai Phule Pune University, Pune (SPPU). Local

Hospitality and travel arrangements were made for the delegates attending the meeting

4. The print copies of JIMS Volume 84, nos. 1-2 (January - June 2017) and JIMS Volume 84, nos. 3-4 (July - Dec. 2017) 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. 86 (1-2), 2017, and The Math. Student, Vol. 86 (3-4), 2017, 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

5. The copies of JIMS Vol. 84 (Nos. 1-2 ) (2017), Vol. 84 (Nos. 3-4)(2017) and The Mathematics Student Vol. 86 (Nos. 1-2) (2017) have been sent to the subscribing institutes and Universities by registered post. The account of corresponding expenses has been maintained.

6. The Director, Ramanujan Institute for Advanved Stydy in Mathematics, University of Madras, Chennai was requested to provide the old volumes of JIMS for digitization. The volumes published from 1977 to 2004 have been received from the Institute. They have been handed over to the Informatics Publishing Ltd. (Benglore) for digitization.

7. Substantial help was rendered to the General Secretary Prof. N. K. Thakare in the finalization of Newsletter Nos. 37 and 38. The Newsletters were prepared and sent by e-mails to the Life members of the IMS.

8. Assistance was provided to the General Secretary in the process of selecting the mathematicians for Prof. A. K. Agarwal award for the year 2016, Prof. A. M. Mathai award for 2016, A. Narsinga Rao memeorial prize for the years 2015-2016 and Prof. Satish Bhatnagar award for 2016

9. The invitations were sent to Anant Mudgal (Faridabad), Shubham Saha (Ranchi) and Yash Sanjeev (Kota) for attending the Inaugural function of IMS conference to be held on December 12, 2017 in Tirupati and receiving the P. L. Bhatnagar memorial prize awarded to them for the year 2017.

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 2017.

Report of the Chief Editor, Journal of IMS (year 2017)

Manuscript Status:

(a) Number of papers pending with the referee or under process at



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the end of 2016:	17
(b) Number of manuscripts received during the year 2017:	115
<hr/>	
Total:	132
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(i) Number of Manuscript accepted during 2017:	31
(ii) Number of manuscript rejected during 2017:	71
(iii) Number of manuscript with the referees / under process:	30
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Total:	132

**Increase in the number of submissions:** The papers submitted to the JIMS are received directly by the chief editor or they are received online by the IPL on their platform. The number of submissions has therefore increased from 70 in 2016 to 115 in 2017. On the other hand, the number of rejections has also increased from 40 to 71. The number of submissions from countries like Russia, Iran, Egypt, Bangladesh, China and other foreign countries is noteworthy.

**Digitization of the back-Volumes of JIMS:** The Informatics Private Ltd. (IPL) has already digitized and put a large number of back volumes of the JIMS on line. Those available at the S. P. Pune University have been done. The remaining volumes are being procured from our Chennai library and given to the IPL for completing the full digitization work of JIMS from 1907 onwards.

**Publication status (online by IPL):**

1. Volume 84(1-2)2017 of JIMS was published on Jan 1, 2017.
2. Volume 84(3-4)2017 of JIMS was published on July 1, 2017.
3. Volume 85(1-2)2018 of the JIMS will be published on Jan. 1, 2018.

**Publication Status (Print by the IMS):**

1. Volume 84(1-2)2017 of JIMS was published in Feb., 2017 and sent to the subscribers by the Administrative Secretary, IMS.
2. Volume 84(3-4)2017 of JIMS was published in Aug., 2017 and sent to the subscribers by the Administrative Secretary, IMS.
3. Volume 85(1-2)2018 of the JIMS will be published on Jan. 1, 2018 and sent to the subscribers soon

**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 extending possible help printing and dispatching of the JIMS to the subscribers of the Joyurnal.

**Item No. 7 :** To receive the report of the Editor, Mathematics Student for 2017.

Report of the Editor of The Mathematics Student for 2017.

**Publication Status:**

The soft copy of the Vol. 86, Nos. 1-2, January-June (2017) of The Mathematics Student was sent on line in June 2017 and that of the Vol. 86, Nos. 3-4, July-December (2017) of The Mathematics Student was sent on line during November 30-December 5, 2017 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:**

52 manuscripts are received during the period from December 24, 2016 to December 08, 2017 and 12 manuscripts were reported as pending with the referees in the last report.

Of these total 64 manuscripts, 20 are accepted, 34 are not accepted and 10 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. 86, Nos. 1 – 2, January-June (2017) as well as the Vol. 86, Nos. 3 – 4, July-December (2017) 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 2017.

Report of the Librarian for the year 2017

- (1) Received 35 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 2017 under the exchange program are available in the library.

**Item No. 9 :** To consider the Audited Statement of Accounts for the year 2016 – 2017 and budget for the year 2018 – 2019.

The Audited Statement of Accounts for the year 2016 – 2017 and budget for the year 2018 – 2019 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 2017 – 2018.

M/S. Indapurkar and Mundada, Calda Corner, Aurangabad, were appointed as Auditors to audit the accounts of the Society for the year 2017 – 2018.

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

Prof. Peeyush Chandra, Prof. P. Veeramani, Prof. M. Mursaleen, Prof. V. S. Kharat, Prof. Girija Jayaraman and Prof. Maithili Sharan 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 2018.

The Council decided that the programme of IMS sponsored lectures be continued for the year 2018.

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

The Council accepted the firm invitation from the Vice Chancellor, Shri Mata Vaishno Devi University (SMVDU), Jammu for organizing the 84th Annual Conference of the Indian Mathematical Society. Prof. A. K. Das, Department of Mathematics, SMVDU, will be the Local Organizing Secretary of the conference.

**Item No. 14 :** To constitute Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2018.

The Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2018 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. P. Vinod Kumar (Cochin), Prof. Manjusha Mazumdar (Kolkata) and Prof. Bankateshwar Tiwari (Varanasi) 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 2018 – 19: Prof. Sudhir Ghorpade, IIT, Mumbai for a period of one year with effect from April 01, 2018.

Members of the Council for a period of three years w. e. f. April 1, 2018 :

Prof. Sanjib Kumar Datta, University of Kalyani, Kalyani; Prof. Asma Ali, AMU, Aligarh; and Prof. G. P. Raja Sekhar, IIT, Kharagpur for election of members of the Council for three years beginning from the year April 1, 2018.

**Item No. 17 :** To finalize the nomination of the Council for election to the office of the President of the Society for the year 2019 – 2020.

The Council nominated Prof. Rajendra Bhatia, Ashoka University for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2019.

**Item No. 18 :** To finalize the nomination of the Council for election to the following office bearers of the IMS for three years w. e. f. April 1, 2019.

(i) General secretary (ii) Academic secretary (iii) Editor, JIMS (iv) Editor, The Mathematics student and (vi) treasurer

The council made the nominations as follows:

(i) General secretary : Prof. Satya Deo (ii) Academic secretary : Prof. Peeyush Chandra (iii) Editor, JIMS : Prof. Sudhir Ghorpade (iv) Editor, The Mathematics student : Prof. M. M. Shikare and (vi) Treasurer : Prof. S. K. Nimbhorkar

**Item No. 19 :** To finalize nominations for the Council for election of members of the Council for three years beginning from the year April 1, 2019.

The council nominated Prof. Nita Shah (Ahmedabad) and Prof. Ahmed Ali (Lucknow) for election of members of the Council for three years beginning from the year April 1, 2018.

**Item No. 20 :** Report on the progress of Meenakshi Sundaram Patoudi lectures.

The details of Meenakshisundaram - Patoudi lectures given in 2017 are as follows:

**Item No. 21 :** To consider any other item with the permission of the chair.

No other item was under consideration.

The General Secretary thanked the President and the other council members for fruitful deliberations in the meeting.

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, November 30, 2018 at 12.00 noon in the Department of Mathematics, Shri Mata Vaishno Devi University (SMVDU), Jammu 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 15, 2017 at Sri Venkateswara University, Tirupati, Andhra Pradesh.
2. To receive the report of the General Secretary for 2018.
3. To receive the report of the Academic Secretary for 2018.
4. To receive the report of the Administrative Secretary for 2018.
5. To consider the Audited Statement of Accounts for the year 2017 – 2018 and the Budget for the Financial Year 2019 – 2020.
6. To receive the report of the Editor of the Journal of the Indian Mathematical Society for 2018.
7. To receive the report of the Editor of the Mathematics Student for 2018.
8. To consider the venue of the 85<sup>th</sup> Annual Session of the Society to be held in December 2019.
9. Announcement of the results of the following elections:
  - (i) President for 2019 – 2020;
  - (ii) Two members of the Council for a period of three years w. e. f. April 01, 2019.
  - (iii) Office bearers of the IMS for a period of three years w. e. f. April 1, 2019.
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 Shri Mata Vaishno Devi University (SMVDU), Jammu during November 27 – 30, 2018**

**1. Plenary Lectures : Two**

The Plenary Lecture will be delivered by

- (i) Prof Steven Dale Cutkosky , Univ of Missouri.

**2. IMS Memorial Award Lectures :**

1 The 32<sup>nd</sup> P. L. Bhatnagar Memorial Award Lecture will be delivered by Dr Manoranjan Mishra, IIT Ropar.

2 The 29<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture will be delivered by Nayandeep Deka Baruah Tezpur University.

Title of the talk: Some Arithmetical Identities and congruences for some partition functions.

3 The 29<sup>th</sup> V. Ramaswamy Iyer Memorial Award Lecture will be delivered by Prof K. N. Raghavan, I M Sc.

4 The 29<sup>th</sup> Hansraj Gupta Memorial Award Lecture will be delivered by Prof. SS Khare, NEHU shilong.

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

1 Prof A K Mishra, BHU, Varanasi.

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6 Prof Indranath Sengupta, IIT Gandhinagar.

**4. Symposia:**

**A. Harmonic Analysis and Related Areas,**

Convener: Speakers:

**B. Theory and Numerics of Evolution Equations ,**

Convener: Dr Ritesh Kumar Dubey, SRM Chennai.

Speakers:

- C. **Coding Theory and Cryptography** ,  
Convener: Prof Madhu Raka E Prof, Punjab University  
Speakers:
- D. **Commutative Algebra and Algebraic Geometry** ,  
Convener: Prof Amartya Kumar Dutta,ISI Kolkata  
Speakers:
- E. **Functional Analysis and Operator Theory** ,  
Convener: Speakers:
- F. **Functions of several Complex Variables** ,  
Convener: Speakers:

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 [imsgoesgreen@gmail.com](mailto:imsgoesgreen@gmail.com) or [jamanadaspat@gmail.com](mailto:jamanadaspat@gmail.com) so that further necessary action can be taken.

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

The 59<sup>th</sup> Internatinal Mathematical Olympiad (IMO) was held in Rio de Janeiro, Brazil from July 3 to 14, 2018. received Bronz medals in the 59<sup>th</sup> IMO.

The above three students were top scorer (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 2018. 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 84<sup>rd</sup> Annual Conference of the Society on November 27, 2018 at Shri



Mata Vaishno Devi University (SMVDU), Jammu.

**\* 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 106<sup>th</sup> Session of the Indian Science Congress Association will be held at Lovely Professional University Jalandhar, Punjab during 3-7 January 2019. The Focal Theme of the Session will be “ FUTURE INDIA - Science and Technology”. Dr. Manoj Chakrabarti ICMR Emeritus Medical Scientist, Kolkata. is the General President.

## INDIAN MATHEMATICAL SOCIETY

Council Members 2018 - 19

1. Prof.Sudhir Ghorpade, **President**  
Department of Mathematics,  
IIT,Mumbai.  
E-mail: srg@math.iitb.ac.in
2. Prof. Manjul Gupta, **Immediate Past President**  
Indian Institute of Technology,  
Kanpur (U. P.)  
E-mail: manjul@iitk.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. Prof.Sanjib Kumar Datta  
Department of Mathematics,  
University of kalyani, Kalyani
11. Prof. Asma Ali  
Department of Pure Mathematics  
AMU, Aligarh

12. Prof.G.P. Rja Sekhar  
Department of Mathematics  
IIT, Kharagpur
  
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@math.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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**This News letter is Published by Prof. N. K. Thakare, General Secretary, Indian Mathematical Society at Pune (Maharashtra).**