



INDIAN

MATHEMATICAL

SOCIETY

## INDIAN MATHEMATICAL SOCIETY

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

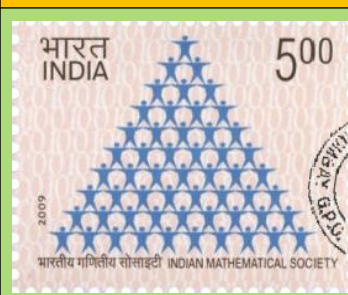
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NEWSLETTER

NO. 42

August 2019



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(IMS)**  
**NEWS LETTER NO. 42**  
**August, 2019**

**85<sup>th</sup> ANNUAL CONFERENCE OF THE IMS- AN  
INTERNATIONAL MEET  
(November 22-25, 2019)**

The '85<sup>th</sup> Annual Conference of the IMS- an International Meet'.will be held under the auspices of The IIT Kharagpur, Kharagpur - 721302, West Bengal during November 22-25, 2019 under the Presidentship of Prof. S. Arumugam, Kalasalingam University, Anand Nagar, Krishnankoil - 626190 (Via) Srivilliputtur, Dist. Virudunagar (TN), India.

Prof. G. P. Raja Sekhar, Department of Mathematics, IIT Kharagpur is the Local Organizing Secretary of the Conference. Correspondence pertaining to arrangements for accommodation etc. at IIT Kharagpur during the Conference should be addressed to Prof. G. P. Raja Sekhar. His e-mail address is *ims2019@iitkgp.ac.in*.

**CALL FOR CONTRIBUTORY PRESENTATIONS AND POSTER PRESENTATIONS :**

IMS invites contributory presentations as well as Posters (related to Symposia theme for its 85th Annual Conference - an International Meet.

- (1) Contributors should send the Abstract of the paper in the following format electronically (in .pdf as well as .tex format) to the Academic secretary, Prof Peeyush Chandra (email: acadsecrims@gmail.com) so as to reach him not later than September 30, 2019. Contributions received after the due date may not be considered.

Note that full length papers are not required to be submitted, however the contributors must bring a copy of the paper during the conference and give it to the Chairperson of the session.

- (2) **FORMAT FOR THE ABSTRACT**

The Abstract should be brief and should not exceed 250 words. The use of formula and symbols should be kept minimum and should be in the following format:

{Title of the paper}

{Name of the Author(s)}

{Institution(s)}

{Name of the Presenter}

{E-mail address for Correspondence}

{Section\*}

{Abstract}

\* Section Classification as given in 3 below,

- (3) 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. 300/-. Those wishing to become Sessional Members can also do so by paying Rs. 300/-. The amount can be paid by cheque/NEFT in favor of "Indian Mathematical Society". The cheque should be sent to Prof. S. K. Nimbhorkar, The Treasurer, The Indian Mathematical

Society, C/O. Dr. Mrs. Prachi Kulkarni, Ankur Hospital, Tilaknagar, Aurangabad-431 001 (MS), India, so as to reach him by November 15, 2019. In case of NEFT, the required bank details may be taken from Prof. S. K. Nimbhorkar by communicating with him via email. After this date, applications for becoming a Sessional member will be accepted only at the venue of the Conference at IIT Kharagpur during November 22-25, 2019.

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 the 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.

G. Kashi Viswanatham of the Indian Institute of Education and Research, Berhampur, Odissa has been selected for the A. K. Agarwal Award -2019 of the IMS for his paper entitled “Products of weighted multiple zeta functions” published in the Bulletin des Sciences Mathematiques Vol 147(2018) pp 26 – 39.

**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.

No applications were received for the above award until the deadline June 30, 2019 and hence the A. M. Mathai Award for the year 2019 is not given to anyone.

**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.

C. Montelle and K. Ramasubramanian have been jointly selected for the Satish Bhatnagar Award 2019 of the IMS for their paper entitled “Determining the Sine of One degree in the Sarvsidhantraja of Nityanda ” published in SCIAMVS 19(2018) pp. 1-52.

**F. Life Time Achievement Award for Research and Services to the IMS.**

This award is given to a mathematician who has rendered highly dedicated service to the cause of the IMS in various capacities besides research contributions not less than 25 research papers published in international reputed journals and at least two published in the periodicals of the Indian Mathematical Society in his/her area of mathematics. The Selection Committee for this award consisted of all the members of the Academic Planning Committee - 2019 of the IMS.

Professor N. K. Thakare, former Professor of Mathematics at S. P. Pune University, Pune, has been awarded the Life Time Achievement Award - 2019 of the Indian Mathematical Society for his outstanding services to the Society and his research contributions in mathematics. He published more than two hundred research papers in peer reviewed journals, out of which more than ten papers published in the periodicals of the Indian Mathematical Society.

**G. 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.
  - e. The author should give a declaration that the work is unpublished and has not been submitted for competition anywhere else. In case of research scholars, the supervisor should verify that the work has been carried out independently.
4. Soft copy of the full paper with the Abstract (prepared in the format as given on page no.1 with Prize Category as given in the section classification) **in its electronic version (.pdf and .tex format)** should reach Prof. Peeyush Chandra on the e-mail address given earlier not later than **September 30, 2019**. 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. Papers should be typed in double space and should be accompanied by an Abstract prepared as per the instructions and format given for Contributory Presentations.

**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.*

**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 our periodicals are in the UGC list of approved journals. These are also indexed by MathScinet, Zentralblatt and Scopus (JIMS is already there in Scopus and Math Student is in the pipeline for being included).

\* *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 the 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 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 of Rs.100/- (\$ 10) per page will be levied for LaTeX typesetting charges.**

### Subscriptions

(i) Subscription of the Journal of the Indian Mathematical Society and The Mathematics Student.

For each periodical

- (a) For libraries of educational Institutions in India
  - (i) Direct subscription Rs.2000.
  - (ii) Subscription through an agent Rs.2500, agency discount 15%. Name and address of the institute is necessary.
- (b) For foreign subscription US \$200, agency discount 15%.
- (c) For agents who do not provide name of the subscriber Rs.10,000, agency discount 20%.

Each issue of The Mathematics Student is provided to the members by sending them at their E-mail address a link to the latest published issue which can be accessed by the members anytime and anywhere for their personal use. 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

- (a) For Indian citizens:



- (i) Life Membership Rs.2500,
- (ii) Annual / Sessional Membership Rs.300.
- (b) For foreigners:
  - (i) Life Membership US \$150.
  - (ii) Life Membership for members with Societies having Reciprocity arrangement with IMS US \$100.
  - (iii) Life Membership for people from SAARC countries US \$50.
  - (iv) Annual / Sessional Membership US \$15.
- *Membership form is available on the IMS website.*

**Business Correspondence and Payments:**

All business correspondence be addressed to Prof. S. K. Nimbhorkar, The Treasurer, The Indian Mathematical Society, C/O. Dr. Mrs. Prachi Kulkarni, Ankur Hospital, Tilaknagar, Aurangabad-431 001 (MS), 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: riasmlibrary2010@gmail.com

For further information one may contact Prof. Mrs. Sushma Agrawal, Librarian, 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:

Prof. B. Suri, Theoretical Stat. and Math. Unit, Indian Statistical Institute, Bangalore for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2020.

Prof. A. K. Das ( Shri Mata Vaishno Devi University, Katra), Prof. N. D. Baruah ( Department of Mathematical Sciences, Tezpur University, Assam) and Prof. G. P. Youvaraj (Ramanujan Inst. For Advanced Study in Mathematics) for election of members of the Council for three years beginning from the year April 1, 2020.

A member (in good standing) of the IMS can contest for membership to the Council of the 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. B. N. Waphare, Department of Mathematics, Savitribai Phule Pune University, Pune - 411007, Maharashtra, India on or before September 30, 2018.

**In the context of (h) of the constitution of the 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, 2019. 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 the 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, 2019. 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 8, 2019. The following (j) and (k) are modified in the lines of the constitution of the 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 15, 2019 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, 2020.

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, 2020.

### Minutes of the General Body Meeting

The 84<sup>th</sup> Annual General Body Meeting of the Indian Mathematical Society was held on Friday, the 30th November, 2018 at 12 noon in the Meeting Hall of Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir under the presidentship of Prof. Sudhir Ghorpade.

The following business was transacted.

**Item No. 1 :** To confirmed the Minutes of the General Body meeting held on Friday, the 15th December, 2017 at 12 noon in the Lecture Hall of the Department of Mathematics, Sri Venkateswara University, Tirupati (A. P. ) under the presidentship of Prof. Manjul Gupta.

The Minutes of the General Body meeting held on December 15, 2017 at 12 noon at Sri Venkateswara University, Tirupati (A. P.) were confirmed .

**Item No. 2 :** To receive the report of the General Secretary for 2018.

Report of the General Secretary for 2018.

1. The IMS Newsletters No. 39 and No. 40 were published in March 2018 and in August 2018, respectively. These are also displayed on the website of the Indian Mathematical Society. The soft copies of these Newsletters have been sent by e-mails to all the members of the Society.

Prof. Sudhir Ghorpade, IIT, Mumbai was informed that he has been elected as the president of the IMS for one year with effect from April 1, 2018.

2. The meeting of the Academic Planning Committee for the IMS Conference 2018 was held on Sunday, the 10<sup>th</sup> June 2018 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. Sudhir Ghorpade, the president of the IMS The names for the 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 2017 has not been awarded to anyone since no paper under consideration was up to the mark.
4. **Prof. A. K. Agarwal Award** for the year 2017 has not been awarded to anyone as no paper received for the award satisfied the terms and conditions for giving the award.

5. **Prof. A. M. Mathai Award** Only one paper was received for Prof. A. M. Mathai Award for the year 2017. However, the paper did not meet the conditions formulated to give the award and therefore the award is not given to anyone.
6. **Prof. Satish Bhatnagar Award** for the year 2017 has been awarded to Prof. Amartya Kumar Datta for his paper Weighted Arithmetic Mean in Ancient India published in Bhavana 1(4)(2017), pp. 24 – 36.
7. **P. L. Bhatnagar Memorial Prize** for 2018 is given to Pranjal Srivastava of National Public School, Koramangala, Bengaluru. The 59<sup>th</sup> International Mathematical Olympiad (IMO) was held in Cluj Napoca, Romania during July 4 – 14, 2018. In the Indian team Pranjal Srivastava was the top scorer (28 points) at IMO.
8. Digitization of the back volumes of JIMS published from the year 1976 to the year 2005 has been completed by the Informatics Publishing Ltd., Bangalore. The digitized volumes are available online from the platform of informatics india. These volumes were retrieved from the IMS Library housed at Ramanujan Institute for Advanced Study in Mathematics, Madras University, Chennai.
9. During the year of the report 124 new life members of the IMS have been enrolled, besides 56 persons became as sessional members of the IMS for 2018 conference.
10. A timely guidance and the help has been provided to Prof. A. K. Das, Local organizing secretary of the 2018 IMS conference-An International Meet 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. 3 :** To receive the Report of the Academic Secretary for the year 2018.

Report of the Academic Secretary for the year 2018.

Based on the deliberations during the APC meeting held on June 10, 2018 at S. P. Pune University, Pune and subsequent consultations with the President and the General Secretary, the following speakers have been finalized:

**Memorial Award lectures:**

(i) 32<sup>nd</sup> P. L. Bhatnagar Memorial award lecture: Dr. Manoranjan Mishra, IIT Ropar.

(ii) 29<sup>th</sup> Hansraj Gupta Memorial award lecture: Prof. S. S. Khare, NEHU, Shillong.

(iii) 29<sup>th</sup> Srinivasa Ramanujan Memorial award lecture: Prof N Deka Baruah - Tezpur University

(iv) 29<sup>th</sup> V. Ramaswamy Aiyer Memorial award lecture: Prof. K. N. Raghavan, I M Sc, Chennai.

**Plenary Talks:**

Prof. Steven Dale Cutkosky, Univ of Missouri, USA  
Prof. M. Vanninathan, IIT Bombay, Mumbai

**Satish Bhatnagar Award Lecture Speaker:**

Dr. Amartya K Dutta, ISI Kolkata

**Invited Speakers:**

1 Prof H. S. Ramane, Karnatak Univ., Dharwad.

2 Prof H. G. Dales, UK.

3 Prof D. Staruss, UK.

4 Prof A. K. Mishra, BHU, Varanasi.

5 Prof K. S. Charak, Jammu University.

6 Prof Indranath Sengupta, IIT, Gandhinagar.

**Symposia:**

1. Harmonic Analysis and Related Areas- Prof. Ajit Iqbal Singh, New Delhi and Prof. Rudra Sarkar, ISI Kolkata.

2. Theory and Numerics of Evolution Equations - Dr. Ritesh Kumar Dubey, SRM Chennai.

3. Coding Theory and Cryptography - Prof. Madhu Raka Punjab University, Chandigarh.

4. Commutative Algebra and Algebraic Geometry - Prof. Amartya Kumar Dutta, ISI Kolkata.

5. Operator Theory and Topology Prof. S. D. Sharma, Central Univ of Jammu.

6. Special Functions and Transforms Methods Prof. Jugal K. Prajapati, CUR, Kishangarh.

The Conveners for various symposia have finalized the speakers in consultation with Academic Secretary. The final list is given below:

1. ‘Commutative Algebra and Algebraic Geometry’

Speakers: Professors J. K. Verma, Hema Srinivasan, Chanchal Kumar, Neena Gupta, M. Manjunath.

2. ‘Special Functions and Transforms Methods’

Speakers: Professors A. K. Agarwal, A. Swaminathan, Shubhi Khan, A. Sairam. Syed Abbas, J. K. Prajapat .

3. ‘Theory and Numerics of Evolution equations’

Speakers: Professors Shruti Dubey, Ismail Farzad, N. Kishore Kumar, Shuvan Sen, Ritesh K. Dubey.

4. ‘Harmonic Analysis and Related Areas’

Speakers: Professors M. Filali, A. Taheri, H. Garth Dales, Riddhi Shah, Rudra Srakar.

6. ‘Operator Theory and Topology’

Speakers: Professors Ajay Kumar, M. Mursaleen, SS Khare, Anima Nagar, Pankaj Jain.

7. ‘Coding Theory and Cryptography’

Speakers: Professors Mahesh Anand, Trygve Johnson, Manish Gupta, Sartaj Ul Hasan, Madhu Raka.

This year 137 papers have been received out of which 8 papers are for Prizes (5 for V M Shah prize, 1 for Gr 2 and 2 for Gr 4), 7 for Poster Presentation and 122 as Contributory presentations.

**Item No. 4 :** To receive the report of the Administrative Secretary of the Indian Mathematical Society for the year 2018.

Report of the Administrative Secretary for the Year 2018.

1. E-mails of thanks and appreciations were sent to the local organizing secretary of 83<sup>rd</sup> Annual Conference of the IMS held in December 2017 at Sri Venkateswara University, Tirupati (A. P.). 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 Sri Venkateswara University, Tirupati (A. P.) were prepared.

3. Arrangements were made for holding the meeting of the Academic Planning Committee on Sunday, the 10<sup>th</sup> June 2018 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 85, nos. 1 – 2 (January – June 2018) and JIMS Volume 85, nos. 3 – 4 (July – Dec. 2018) 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. 87(1 – 2), 2018, and The Math. Student, Vol. 87(3 – 4), 2018 were forwarded to the Parashuram Process for the purpose of printing. The printed copies have been received from the press and preserved in the Library of Math. Dept., SPPU.

5. The copies of JIMS Vol. 85 (Nos. 1 – 2 ) (2018), Vol. 85 (Nos. 3 – 4)(2018) and The Mathematics Student Vol.87 (Nos. 1 – 2) (2018) have been sent to the subscribing institutes and Universities by registered post. The account of corresponding expenses has been maintained.

6. The Informatics Publishing Ltd., Bangalore was requested to speed up the digitization of JIMS volumes which were made available by Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai; and also give proposals for digitization of back volumes of The Mathematics Student, and distribution of old volumes of JIMS and The Mathematics Student lying in the IMS Library, Chennai.

7. Substantial help was rendered to the General Secretary Prof. N. K. Thakare in the finalization of the IMS Newsletter Nos. 39 and 40. The Newsletters were prepared; and sent by e-mails to the Life members of the IMS in cooperation with Prof. Patadia.

8. Assistance was provided to the General Secretary in handling various matters related to Prof. A. K. Agarwal award, Prof. A. M. Mathai award, A. Narsinga Rao memorial prize, and Prof. Satish Bhatnagar award for the year 2017.

9. 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 and General body meeting have been maintained.

**Item No. 5 :** To consider the Audited Statement of Accounts for the year 2017 -2018 and budget for the year 2019- 2020.

The Audited Statement of Accounts for the year 2017- 2018 and budget for the year 2019- 2020 presented by the Treasurer, Prof. S. K. Nimbhorkar were approved.

**Item No. 6 :** To receive the report of the Editor, The Journal of the Indian Mathematical Society for 2018.

Report of the Editor, The Journal of the Indian Mathematical Society for 2018

**Manuscript Status:**

(a) Number of papers pending with the referee or under process at the end of 2017:	30
(b) Number of manuscripts received during the year 2018:	103

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Total:	133
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(i) Number of Manuscript accepted during 2018:	33
(ii) Number of manuscript rejected during 2018:	80
(iii) Number of manuscript with the referees / under process:	20

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Total:	133
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**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. The volumes available at the Pune University have been digitized. The remaining volumes are being procured from our Chennai library and given to the IPL for completing the full digitization work of the JIMS from 1907 onwards.

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

1. Volume 85(1-2)2018 of JIMS was published on Jan 1, 2018.
2. Volume 85(3-4)2018 of JIMS was published on July 1, 2018.
3. Volume 86(1-2)2019 of the JIMS will be published on Nov. 2018.

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

1. Volume 85(1-2)2018 of JIMS was published in Feb., 2018 and sent to the subscribers by the Administrative Secretary, IMS.
2. Volume 85(3-4)2018 of JIMS was published in September, 2018 and then sent to the subscribers by the Administrative Secretary, IMS.
3. Volume 86(1-2)2019 of the JIMS will be published on Jan. 2019 and will be sent to the subscribers there after

**Acknowledgements:**

The Chief Editor, JIMS expresses his sincere thanks to numerous referees and the members of the Editorial Board, JIMS, specially Prof Peeyush Chandra and Prof Ravi Agarwal, for their help in refereeing and/or processing the manuscripts received for JIMS. He also records his sincere thanks to Profs S. K. Nimbhorkar and M. M. Shikare for extending all possible help in printing and dispatching copies of the JIMS to the subscribers of the Journal.



**Item No. 7 :** To receive the report of the Editor, Mathematics Student for 2018.

Report of the Editor of The Mathematics Student for 2018.

**Publication Status:**

The soft copy of the Vol. 87, Nos. 1 – 2, January-June (2018) of The Mathematics Student was sent on line in June 2018 and that of the Vol. 87, Nos. 3 – 4, July-December (2018) of The Mathematics Student was sent on line just recently during November 2 – 10, 2018 to all the Life Members (who have registered their E-mail id online on [imgoesgreen@gmail.com](mailto:imgoesgreen@gmail.com) or [jamanadaspat@gmail.com](mailto:jamanadaspat@gmail.com) or [sknimbhorkar@gmail.com](mailto: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:**

65 manuscripts are received during the period from December 09, 2017 to November 20, 2018 and 10 manuscripts were reported as pending with the referees in the last report.

Of these total 75 manuscripts, 19 are accepted, 45 are not accepted and 11 are pending with the referees.

**Acknowledgements:**

(i) We take this opportunity to put on record our sincere thanks and profuse gratefulness to the 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.

(ii) We started Problem Section from 2015 and it is going on successfully. During these three years support has come from Editorial Board Members as well as from the floor. We have very broad and sustained participation from Satya Deo, C. S. Aravinda, George E. Andrews, Kannappan Sampath, M. Ram Murty, Atul Dixit, Amritanshu Prasad, Ashay Burungale, Abhijin Adiga, B. Sury, Mahender Singh, Mathew Francis, L. Sunil Chandran, Amrik Singh Nimbran, Raja Sridharan, Purushottam Rath, Clare DCruz, S. K. Tomar, Emeric Deutsch, Aritro Pathak, Zoltan Boros, Arpad Szasz and N. Tejaswi. We express our special thanks to all these colleagues, in particular to B. Sury from ISI, Bangalore who almost single handedly manages the problems and solutions every years.

(iii) Express our special thanks to the colleagues, in particular, Prof. B. Sury who

took part in our Problem Section since we began it in 2015 and made it a success.

(iv) Express our special thanks to the colleagues, in particular, Prof. B. Sury who took part in our Problem Section since we began it in 2015 and made it a success.

(v) We also express our sincere thanks to the Administrative Secretary Prof. M. M. Shikare and the Pune Press for their assistance in getting the Vol. 87, Nos. 1 – 2, January-June (2018) as well as the Vol. 87, Nos. 3 – 4, July-December (2018) 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 consider the venue of the 85th Annual session of the Society to be held in December 2019.

The Council accepted the firm invitation from the Director, Indian Institute of Technology, Kharagpur, U. P. for organizing the 85<sup>th</sup> Annual Conference of the Indian Mathematical Society. So the 85th Annual Conference of the IMS will be held at IIT, Kharagpur. Prof. G. P. Raja Sekhar, Head, Department of Mathematics, IIT, Kharagpur will be the Local Organizing Secretary of the conference.

**Item No. 9 :** To receive the report of the returning officer.

Report of the Returning Officer.

The Council of the Indian Mathematical Society (IMS), at its meeting held in December 2017 at Shri Venkateshwara University, Tirupati made the following nominations to the various offices of the Society and to the Council of the IMS.

### **The Office of the President:**

The Council nominated Prof. Rajendra Bhatia of Ashoka University, Delhi for election to the Office of the President of the Society for one year with effect from 01 – 04 – 2019. No other nomination has been received from the members of the IMS for election to the office of the President. Therefore no election was held and Prof. Rajendra Bhatia is declared elected unopposed to the office of the President of the IMS for one year with effect from April 01, 2019.

However, Prof. Bhatia expressed his inability to accept the office of President of IMS. In this special situation the Council selected Prof. S. Arumugam as the President of the IMS for one year with effect from April 1, 2019.

### **Election of the Office bearers of the IMS, other than the President:**

The Council made the following nominations for election to the various Offices the Society, other than that of the President, for three years with effect from April 01, 2019.

- (i) For the office the General Secretary : Prof. Satya Deo
- (ii) For the office the Academic Secretary : Prof. Peeyush Chandra
- (iii) For the office the Editor, JIMS : Prof. Sudhir Ghorpade
- (iv) For the office the Editor, The Mathematics Student : Prof. M. M. Shikare
- (v) For the office the Treasurer : Prof. S. K. Nimbhorkar

No other nominations were received from the members of the IMS for election to any of the above offices of the Society and therefore no elections were held and the above mathematicians are declared elected unopposed to the respective office of the Society for three years with effect from April 1, 2019.

**Election of members to the Council of the Society.**

The Council made the following nominations as members of the Council of the Society for three years with effect from April 01, 2019.

1. Prof. Nita Shah (Ahmedabad).
2. Prof. Ahmed Ali (Lucknow).
- (3) Prof. S. Sreenadh

No other nominations were received from the floor for election to the Council of the Society and therefore no elections were held and the above mathematicians are declared elected unopposed to the Council of the Society for three years with effect from April 1, 2019.

**Item No. 10** :Any other item with the permission of the chair.

No other item was under consideration.

The Meeting ended with a vote of thanks to the President of IMS, the members present and 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 Monday, November 25, 2019 at 12.00 noon in the Department of Mathematics, IIT Kharagpur, Kharagpur 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 November 30, 2018 at Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir.

2. To receive the report of the General Secretary.
3. To receive the report of the Academic Secretary.
4. To consider the Audited Statement of Accounts for the year 2018 – 2019 and the Budget for the Financial Year 2020 – 2021.
5. To receive the report of the Editor of the Journal of the Indian Mathematical Society for 2019.
6. To receive the report of the Editor of the Mathematics Student for 2019.
7. To consider the venue of the 86<sup>th</sup> Annual Session of the Society to be held in December 2020.
8. Announcement of the results of the following elections:
  - (i) President for 2020 – 2021;
  - (ii) Three members of the Council for a period of three years w. e. f. April 01, 2020.
9. Any other item with the permission of the chair.  
(Members in good standing are entitled to exercise vote.)

**Satya Deo**  
**General Secretary, IMS.**  
**HRI, Allahabad**

**Highlights of the Academic Programme of the ensuing Conference at IIT  
Kharagpur, Kharagpur during November 22 – 25, 2019**

**1. Plenary Lecture :**

The Plenary Lecture will be delivered by Prof. Gadadhar Misra, IISc, Bangalore.  
Title of the talk: A Product Formula for Homogeneous Characteristic Functions.

**2. IMS Memorial Award Lectures :**

1 The 33<sup>rd</sup> P. L. Bhatnagar Memorial Award Lecture will be delivered by Prof Mythily Ramaswamy, TIFR CAM.

Title of the talk: An invitation to Control of Differential equations.

2 The 30<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture will be delivered by Prof Pratulananda Das, Jadavpur University.

Title of the talk: Non-negative summability matrices and ideals.

3 The 30<sup>th</sup> V. Ramaswamy Aiyer Memorial Award Lecture will be delivered by Prof Swagato K. Ray, ISI Kolkata.

Title of the talk: Quasianaliticity of functions and an uncertainty principle of Fourier analysis.

4 The 30<sup>th</sup> Hansraj Gupta Memorial Award Lecture will be delivered by Prof Gurmeet Bakshi, Panjab University.

Title of the talk: Can we explicitly describe the structure of rational group algebras?.

5 The 14<sup>th</sup> Ganesh Prasad Memorial award lecture will be delivered by Prof Kaushal Verma, IISc, Bangalore.

Title of the talk: An introduction to quadrature domains.

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

1 Prof. K. Sreenadh, IIT, Delhi

Title of the talk: Nonlocal Elliptic problems with critical nonlinearities.

2 Prof. Ashish Upadhyay , IIT, Patna

Title of the talk: Centrally symmetric manifolds.

3 Prof. C. S. Dalawat, HRI, Prayagraj

Title of the talk: Two footnotes to Galios's Memoirs.

4 Prof. Vivek Sahai, Lucknow University

Title of the talk: Recent developments in matrix special function theory.

5 Prof. Rafikul Alam, IIT, Guwahati  
 Title of the talk: Perturbation analysis of discrete spectra of analytic operator-valued functions.

6 Prof. Anand Srivastava, CAU Kiel Germany  
 Title of the talk: A New Bound for the Maker Breaker Triangle Game.

#### 4. Symposia:

##### A. Recent Trends in Differential Geometry,

Convener: Prof. M. M. Tripathi, BHU, mmtripathi66@yahoo.com.

Speakers: To be announced.

##### B. Theoretical and Computational Biology ,

Convener: Prof. P. K. Srivastava, IIT Patna, pksri@iitp.ac.in.

Speakers:

1. Prof. Malay Banerjee, IIT Kanpur, malayb@iitk.ac.in
2. Prof. A. K. Misra, BHU Varanasi, akmisra\_knp@yahoo.com
3. Dr. Pranay Goel, IISER Pune, pgoel@iiserpune.ac.in
4. Dr. BSRV Prasad, VIT Vellore, srvprasad.bh@gmail.com , srvprasad.bh@vit.ac.in
5. Dr. P. K. Srivastava, IIT Patna, pksri@iitp.ac.in, prashant.iitp@gmail.com

##### C. Group Theory,

Convener: Prof. N. Sastry, IIT Dhrawad, nnsastry@gmail.com

Speakers:

1. Prof. K. N. Raghavan, IMSC, Chennai, Tamil Nadu, knr@imsc.res.in
2. Prof. Anupam Kumar Singh, IISER, Pune, anupam@iiserpune.ac.in
3. Prof. Shripad M. Garge, IIT, Bombay, shripad@math.iitb.ac.in
4. Prof. Manoj Kumar Yadav, HRI, Allahabad, Myadav@hri.res.in
5. Prof. Ravindra Prasad Shukla, Univ of Allahabad, Shuklarp@gmail.com

##### D. Ramanujan and Mathematical Analysis ,

Convener: Prof. S. Ahmad Ali, BBD University, Lucknow, ali.bbdu@gmail.com.

Speakers:

1. Prof. A. K. Agarwal, Centre for Advanced Studies in Mathematics, Punjab University, Chandigarh, aka@pu.ac.in
2. Prof. M. A. Pathan, Department of Mathematics, Aligarh Muslim University, Aligarh, mapathan@gmail.com
3. Prof. Kalyan Chakraborty, Harish Chandra Research Institute, Allahabad, kalychak@gmail.com
4. Asst. Prof. Atul Dixit, Department of Mathematics, Indian Institute of Technology, Gandhinagar, adixit@iitgn.ac.in
5. Prof. S. Ahmad Ali, Department of Mathematics & Computer Science, Babu Banarasi Das University, Lucknow, ali.bbdu@gmail.com

##### E. Combinatorics on Finite Sets ,

Convener: Prof B. N. Waphare, S P Pune University, waphare@yahoo.com.

Speakers:

1. Prof. S. Sivaramakrishnan, Department of Mathematics, Indian Institute of Technology, Powai, Mumbai
2. Dr. Anirban Banerjee, Dept. of Mathematics & Statistics, Indian Institute of Science Education and Research Kolkata, India
3. Prof. M. M. Pawar, SSVPS Dr. P. R. Ghogare Science College, Dhule
4. Prof. Vinayak Joshi, S. P. Pune University, Pune
5. Prof. B. N. Waphare, S. P. Pune University, Pune

**F. Higher Mathematics Education in India,**

Convener: Prof. S. Kumaresan, MTTS, kumaresa@gmail.com.

Speakers:

1. Prof. Bhaba Kumar Sarma, IIT-Guwahati, bhabasarma@gmail.com
2. Prof. Ajit Kumar, ICT, Mumbai, ajit72@gmail.com
3. Prof. V Sholapurkar, S.P. College, Pune, vmshola@gmail.com
4. A representative from National Center for Mathematics (NCM).
5. Prof. S Kumaresan, Visiting Faculty, IIT-K, kumaresa@gmail.com

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

The conveners and speakers of the symposia are respected to encourage the researchers in their respective areas for paper presentations on topic related to the respective topic of the symposium.

## 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. Not withstanding 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 there in, 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 2019**

P. L. Bhatnagar Memorial Prize for 2018 is given to Spandan Ghosh and Sutanay Bhattacharya. The 59<sup>th</sup> International Mathematical Olympiad (IMO) was held in Cluj Napoca, Romania from July 4 to 14, 2018. In the Indian team the above three students were top scorer (each of them scored 21 points) at IMO.

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 will be awarded to them in the Inaugural Session of the ensuing 85<sup>th</sup> Annual Conference of the Society during November 22 – 25, 2019 at IIT Kharagpur, Kharagpur.

**\* 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](mailto:sknimbhorkar@gmail.com) ).

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

The 107<sup>th</sup> Session of the Indian Science Congress Association will be held at University of Agricultural Sciences, GKVK Campus, Bangalore, Karnataka during 3-7 January 2020. The Focal Theme of the Session will be “ Science & Technology : Rural Development”. Prof. K. S. Rangappa Distinguished Professor, Institution of Excellence, Vijnana Bhavan University of Mysore, Manasagangotri, Mysore, Karnataka is the General President.

**\* International Women in Mathematics**

The day 12<sup>th</sup> May is declared to be the International Women in Mathematics Day in

honour of late acclaimed Iranian Mathematician, Maryam Mirzakhani (born on 12<sup>th</sup> May 1977), the first and only woman to win Fields Medal.

## INDIAN MATHEMATICAL SOCIETY

Council Members 2019 – 20

1. Prof. S. Arumugam, **President**  
Kalasalingam University,  
Anand Nagar, Krishnankoil(TN),  
E-mail: s.arumugam.klu@gmail.com
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4. Prof. Peeyush Chandra, **Academic Secretary**  
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5. Prof. B. N. Waphare, **Administrative Secretary**  
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6. Prof. S. K. Nimbhorkar, **Treasurer**  
The Treasurer, The Indian Mathematical Society,  
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\* \* \*

**This News letter is Published by Prof. Satya Deo, General Secretary, Indian Mathematical Society .**