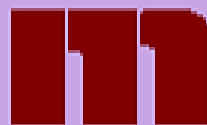




INDIAN



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. 36

August – 2016



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. 36**

**August, 2016**

**82<sup>nd</sup> ANNUAL CONFERENCE OF IMS  
(December 27-30, 2016)**

The 82<sup>nd</sup> Annual Conference of the Indian Mathematical Society will be held under the auspices of Department of Mathematics, Kalyani University, Kalyani (West Bengal) during December 27-30, 2016 under the Presidentship of Prof. D. V. Pai, Indian Institute of Technology, Gandhinagar (Gujarat).

Dr. Sanjib Kumar Datta, Professor, Department of Mathematics, Kalyani University, Kalyani is the Local Organizing Secretary of the Conference. Correspondence pertaining to arrangements for accommodation etc. at Kalyani University during the Conference should be addressed to Dr. Sanjib Kumar Datta. His e-mail address is *sanjib.kr.datta@yahoo.co.in*.

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

1. Papers should be typed double spaced on an A4 size paper and should be accompanied by an Abstract prepared as per the instructions and format given on page nos. 5 and 6. Abstract should be brief and should not exceed 250 words. The use of formula and symbols should be minimized. **Abstracts received without full length papers will not be considered.**
2. The abstracts and the papers should be sent electronically (in.pdf format) to the Academic Secretary, Prof. Peeyush Chandra (Email: *acadsecrim@gmail.com*), so as to reach him not later than October 31, 2016 .
3. A copy 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 / Sessional members can do so by paying Rs. 250/-. The amount can be paid by DD/Cheque payable at Aurangabad (Maharashtra)/payable at par. DD/Cheque should be drawn in favor of "Indian Mathematical Society". The DD/Cheque should be sent to Prof. S. K. Nimbhorkar, Treasurer, IMS, Department of Mathematics, Dr. B. A. M. University, Aurangabad-431004 (Maharashtra), so as to reach him by December 10, 2016. The amount can be paid through bank transfer (for details contact the Treasurer). After this date, applications for becoming a Sessional member will be accepted only at the venue of the Conference at Kalyani University, Kalyani (W.B.) during December 27-30, 2016 .

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. 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.

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. 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.

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/-.

Following conditions apply:

1. Only the Members of the Society are eligible for participation in the Competition.
2. The upper age limit of a candidate for participation in the Competition is 40 years as on December 31 of the respective year.
3.
  - a. The paper to be presented for the competition has to be under single authorship.
  - b. Independent work at the post-doctoral level is preferred.
  - c. The work must have been carried out in India.
  - d. Stress will be on both, quality of research as well as performance during the presentation.
4. Soft copy of the full paper with the abstract (not exceeding 250 words) **in its electronic version (.pdf format)** should reach Prof. Peeyush Chandra on the e-mail address given earlier not later than October 31, 2016. 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. Full address is not allowed, **E-mail address is a must.**
6. The word “abstract” should not be written.
7. The abstract must begin with the title of the paper.
8. Comma should be inserted at the end of the title and the name(s) of the author(s) be written on the same line.
9. The name of the author’s town should be written in brackets after the name; in case of two (or more) authors from the same town, the town be mentioned only after the last author’s name.

The abstract is likely to be rejected if any of these instructions (particularly (1), (2), (5) and (7)) is violated.

The **electronic versions of the paper and the abstract in .pdf format** should be sent to Prof. Peeyush Chandra on the e-mail address given earlier so as to reach him not later than October 31, 2016 (after which date no paper will be accepted).

**FORMAT FOR THE ABSTRACT**

Name of the Author(s) :  
Institution(s) :  
Name of the Presenter :  
Address for Correspondence :

**ABSTRACT** : The abstract must be accommodated in the space as in the box below in strict accordance with instructions given above. The word “abstract” must not be written in the box.

**SECTION**: The Section (A, B, C, etc.) should be carefully chosen and entered here. Refer the classification codes given earlier.

### Periodicals published by the Society

The Society publishes two periodicals - *The Journal of the Indian Mathematical Society* ISSN (Print) 0019-5839. It is also published **online** through the Informatics India platform ISSN (Online) : 2455-6475 (Website:www.informindia.co.in) and *The Mathematics Student* ISSN 0025-5742, both of which are quarterly. The details can be found on the website: www.indianmathsociety.org.in.

### Subscriptions

Annual subscription for PRINT version of the Journal of the Indian Mathematical Society / the Mathematics Student:

For each periodical

- Rs.1500/- for Libraries of Educational Institutions in India - provided the subscription is direct.
- 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.

The Journal of the Indian Mathematical Society is also available **online**. For **online subscription information** contact Informatics India Email: Kamalinformatics-global.com Website: www.informindia.co.in

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 and a physical copy of The Mathematics Student will continue to be available at the IMS Library (Ramanujan Institute of Advanced Study in Mathematics, Madras University, Chennai) as well as at the Registered Office of the Society (Department of Mathematics, Savitribai Phule Pune University, Pune - 411 007) for reference during office hours.



### Membership of the Society

**Life Membership Fees:**

Rs.2000/- (US \$500/- for foreigners and US \$300 for foreigners who are members of the American Mathematical Society. Those residing outside India - referred to as *International Life Members*).

**Ordinary Annual Membership Fees:**

Rs. 250/- (US \$50/- for those residing outside India).

**Sessional Membership Fees :**

Rs. 250/- (US \$50/- 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 [indianmathsociety.org.in](http://indianmathsociety.org.in).*

**Business Correspondence and Payments:**

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

**Member in good standing:**

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

### IMS Library

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

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

The address of the IMS Library is:

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

For further information one may contact Prof. G.P. Youvaraj, Director, Ramanujan Institute for Advanced Study in Mathematics, University of Madras, Chennai, who is the Honorary Librarian for the Indian Mathematical Society Library.

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

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

President: Prof. Manjul Gupta, (Retired Professor, IIT, Kanpur) for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2017.

Prof. G. P. Singh, VNIT, Nagpur; Prof. S. S. Khare, North Eastern Hill University, Shillong and Prof. Raj Shekhar Reddy, Tirupati University, Tirupati (A.P.) are nominated for election as members of the Council for a period of three years w. e. f. April 1, 2017.

A life 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 by following the procedure laid down in the following TWO paras. He/ she 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 October 5, 2016.

**In the context of (h) of the constitution of IMS.** If a life 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 October 5, 2016. 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 life 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 life members of good standing of the society not later than November 10, 2016. The life member should take a print out, complete the formalities and send it by registered post/ speed post to the Returning officer so as to reach him latest by December 10, 2016.

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

(j) The Returning Officer shall collect all the ballot papers returned to him/her by the members up to December 10, 2016 and carry them to the venue of the Annual Conference, where they will be opened and counted by him in the presence of a Com-

mittee 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 is determined by toss 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, 2017.

### Minutes of the Council Meeting held at Nagpur

A meeting of the Council of the Indian Mathematical Society (IMS) was held in the Meeting Hall of the Administrative Building of Visvesvaraya National Institute of Technology (VNIT), Nagpur on Dec. 26, 2015 at 6.00 pm. The meeting was adjourned and the adjourned meeting of the Council of the IMS was held on December 29, 2015 at 3.00 p.m. in the office of the Head, Department of Mathematics, VNIT.

(Note: The 81<sup>st</sup> Annual Conference of the IMS was held under the auspices of the Visvesvaraya National Institute of Technology, Nagpur during Dec. 27-30, 2015).

The following members were present.

- |                                  |                                       |
|----------------------------------|---------------------------------------|
| 1) Prof. A. M. Mathai (In Chair) | 7) Dr. S. B. Nimse                    |
| 2) Prof. N. K. Thakare           | 8) Prof. Girija Jayaraman             |
| 3) Prof. M. M. Shikare.          | 9) Dr. Banktेशwar Tiwari              |
| 4) Prof. S. K. Nimbhorkar.       | 10) Prof. Ahmed Ali                   |
| 5) Prof. Satya Deo.              | 11) Prof. R. Sahadevan                |
| 6) Prof. J. R. Patadia           | 12) Dr. G. P. Singh (Local Secretary) |

The following members could not remain present.

- |                            |                          |
|----------------------------|--------------------------|
| 1) Prof. S. G. Dani        | 5) Prof. D. S. Jamwal    |
| 2) Prof. Subhas J. Bhatt   | 6) Dr. P. B. Vinod Kumar |
| 3) Prof. Ajay Kumar        | 7) Prof. A. Vijayakumar  |
| 4) Prof. Manjusha Muzumdar |                          |

Dr. Banktेशwar Tiwari and Prof R. Sahadevan could not attend the adjourned meeting on December 29, 2015.

The following business was transacted and approved by the Council.

**Item No. 1.** Confirmation of the Minutes of the Meeting of the Council of the Indian Mathematical Society held at the meeting hall, Indian School of Mines, Dhanbad on December 26, 2014 at 6.30 p.m. and the adjourned meeting of the Council of the Indian Mathematical Society held on December 29, 2014 at 4.00 p.m. in the Meeting Hall of the Indian School of Mines, Dhanbad.

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 81st Annual Conference.

Dr. G. P. Singh, Professor of Mathematics, VNIT, Nagpur and the Local Organizing Secretary of the 81st Annual Conference of the Indian Mathematical Society informed the Council that adequate arrangements for accommodation and transport of about 200 delegates were made. The Council members, invited speakers and the delegates are accommodated in guest houses of VNIT. He informed the council that the inaugural function, the Award Lectures, Plenary talks and one hour invited talks will take place in the Auditorium and the Physics Assembly Hall of the VNIT; the parallel sessions will take place at three other halls. Further, he reported that the various funding agencies, namely NBHM, DST and DRDO, Govt. of India have sanctioned funds for the Conference.

**Item No. 3.** To receive the report of the General secretary for the year 2015. Report of the General Secretary for the year 2015.

1. The IMS News Letters - No. 33 in March 2015 and No. 34 in August 2015 - were published. They are also displayed on the website of the Indian Mathematical Society. The soft copies of these News Letters have been sent by e-mails to all the members of the Society.
2. The meeting of the office bearers of the IMS (General Secretary, Administrative secretary and the Treasurer) and the representatives (Mr. S.A. Praveen, Mr. Somashekar) of the Informatics (India) Ltd., Bangalore concerning online publication of JIMS, was held on 4th June 2015 at 11.00 am in the Library, Department of Mathematics, Savitribai Phule Pune University, Pune.
3. A committee of Prof. Satya Deo, Prof. J. R. Patadia and Prof. M. M. Shikare was appointed to recommend the name of the author of the best research paper (published in JIMS and Math Student during 2013) for the award of **A. Narasinga Rao Memorial Prize** for the year 2013. The committee has recommended Dr. Ajit De, Department of Mathematics, Siliguri College, Siliguri (W. B.) for this award for his paper entitled "Computation of Synthetic Seismogram for a buried elliptic in plane shear dislocation model in an elastic half-space" published in the Journal of the Indian Mathematical Society, Vol 80 (3-4), 243-263.
4. Terms and conditions for awarding A. K. Agarwal Award and also A. M. Mathai Award were formulated in consultation with the office bearers of the IMS.
5. A panel of five mathematicians was formulated to evaluate the papers received for Prof. A. K. Agarwal Award for best publication in the year 2014. The panel included Prof. Bruce Berndt (University of Illinois, USA), Prof. D. V. Pai (IIT, Gandhinagar), Prof. Manjul Gupta (IIT, Kanpur) and Prof. S. Tariq Rizvi (The

Ohio State University, USA), Prof. A. P. Singh (Central University, Rajasthan). Each member of the panel was requested to use 1-10 scale system to evaluate the papers. Individual reports were received from the referees. The reports were compiled. The Prof. A. K. Agarwal Award for 2014 has been awarded to Ms. Neena Gupta, Stat - Math Division, Indian Statistical Institute, Kolkata for her paper entitled *On the cancellation problem for the affine space  $A^3$  in characteristic  $p$* , *Invent math (2014) 195: 279-288*.

6. **P. L. Bhatnagar Memorial Prize** for 2015 has been awarded to Mr. Jeet Mohapatra (Odisha) for being the top scorer for the Indian Team at the 56th International Mathematics Olympiad (IMO) held during July 416, 2015 at Chiang Mai, Thailand.
7. During the year of the report 130 new life members were enrolled, besides 30 persons became sessional members of the IMS for 2015 conference.
8. A timely guidance and the help has been provided to Dr. G. P. Singh, Local organizing secretary of the 2015 IMS conference pertaining to raising of funds, local arrangements and inaugural function of the conference.
9. A guidance and the help was provided from time to time to Dr. M. M. Shikare, the Academic Secretary (I/C), IMS for preparing the Academic Programme of the Nagpur conference.
10. 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.
11. 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.
12. The General Secretary thanks Prof. M. M. Shikare for extending substantial help in performing the duties of the general secretary.
13. The General Secretary thanks Prof. J. R. Patadia for maintaining and updating the website of the IMS.

**Item No. 4.** To receive the Report of the Academic Secretary 2015.

Report of the Academic Secretary for the year 2015.

(1) The meeting of the Academic Planning Committee (APC) of the IMS was held in the meeting room of the Savitribai Phule Pune University, Pune on July 5, 2015. The meeting was presided over by Prof. A. M. Mathai, President of the IMS. The names of the five memorial award lecturers, plenary speakers, invited speakers, the topics of the Symposia and their conveners were decided as per the following

details.

**(a) Memorial Award lectures:**

- (i) 26<sup>th</sup> Hansraj Gupta Memorial Award Lecture, Prof. B. Sury, Stat-Math Unit, Indian Statistical Institute, Bangalore.
- (ii) 26<sup>th</sup> V. Ramaswami Aiyer Memorial Award Lecture, Prof. Uttara V. Naik Nimbalkar, SPPU, Pune.
- (iii) 29<sup>th</sup> P. L. Bhatnagar Memorial Award Lecture, Prof. V. D. Sharma, IIT Bombay, Mumbai
- (iv) 26<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture, Prof. Parameswaran Sankaran, Institute of Mathematical Sciences, CIT Campus, Taramani, Chennai.
- (v) The 12<sup>th</sup> Ganesh Prasad Memorial Award Lecture, Prof. M. T. Nair, IIT, Chennai.

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

Prof. Edy Tri Baskoro, Institut Teknologi Bandung (ITB), Bandung, Indonesia

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

- (i) Prof. Yaokun Wu, Shanghai Jiao Tong University, Shanghai, China.
- (ii) Dr. Anupam Kumar Singh, Mathematics, IISER, Pune.
- (iii) Prof. B. N. Waphare, SPPU, Pune.
- (iv) Prof. K. C. Deshmukh, R. T. M. Nagpur University, Nagpur.
- (v) Prof. Avinashkumar Chaturvedi, Allahbad University.
- (vi) Dr. Sanjaykumar Amrutiya, IIT, Gandhinagar.
- (vii) Dr J. S. V. R. Krishnaprasad, M. J. College, Jalgaon.
- (viii) Dr. S. P. Tiwari, Indian School of Mines, Dhanbad.

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

- (i) Recent Advances in Complex Analysis (Convener: A. P. Singh, Central University, Rajasthan)
- (ii) Fractional Calculus: Current Trends (Convener: V. S. Gejji, SPPU, Pune)
- (iii) Global Differential Geometry (Convener: Mukut Mani Tripathi, BHU, Varanasi)
- (iv) Algorithms and Graph Theory (Convener: Manish P. Kurhekar, VNIT, Nagpur)
- (v) Cryptography and Security (Convener: Ravindra B. Keskar, V.N.I.T, Nagpur)
- (v) Relativity (Convener: G. P. Singh, VNIT, Nagpur)

**(e) Panel Discussion**

Topic : Choice Based Credit System

Convener: Satya Deo

Panelists:

1. Prof. S. S. Khare, Ex Pro Vice Chancellor, North Eastern Hill University, Shillong.
2. Prof. S. B. Nimse, Vice Chancellor, Lucknow University.
3. Prof. N. K. Thakare, Ex Vice Chancellor, North Maharashtra University, Jalgaon.

4. Prof. Satya Deo, Ex Vice Chancellor, Rani Durgavati Vishwavidyalaya, Jabalpur and Awadhesh Pratap Singh University, Rewa.
5. Prof. H. P. Dikshit, Ex Vice Chancellor, Indira Gandhi National Open University.
6. Prof. V. P. Saxena, Ex Vice Chancellor, Jiwaji university, Gwalior.

(2). The invitations were sent to the above mathematicians providing them necessary details concerning the organization of the conference. They were requested to send the titles and the brief abstracts of their talks to the Local Organizing Secretary. The conveners of the Symposia were requested to identify the speakers of the Symposia and get the titles and abstracts of their talks. Scanned copies of the invitation letters were sent to Prof. Yaokun Wu and Prof. Edy Tri Baskoro.

(3). In all 112 papers have been received for oral presentations in the Conference while 15 papers have been received for various prizes. Each paper was scrutinized for its acceptance / non-acceptance for presentation in the conference. Five papers were not found suitable and were not accepted for presentation in the conference. The abstracts of the papers (in the form of soft files) were sent to Dr. G. P. Singh, the Local Organizing Secretary of the 81st conference, for printing them in the abstracts booklet of the conference.

(4). The Academic programme of the conference was prepared in the month of October 2015. The programme has been displayed on the website of the Indian Mathematical Society.

**Item No. 5.** To receive the report of the Administrative Secretary for the year 2015.

Report of the Administrative Secretary for the year 2015.

(i) E-mails of thanks and appreciations were sent to the speakers of the Memorial Award lectures, Invited talks and conveners of the Symposia, local organizing secretary of the 80th Annual Conference of IMS held at Dhanbad in Dec. 2014. Prof. A. M. Mathai was informed of his election to the post of President of the IMS. Elected council members were informed accordingly.

(ii) The Minutes of the council meeting and the general body meeting held at Dhanbad were prepared.

(iii) An arrangement was made on 4th June 2015 at the Department of Mathematics, Savitribai Phule Pune University (SPPU) for holding the meeting (concerning on line publication of JIMS) between the office bearers of IMS and the representatives of the Informatics Publishing Limited (IPL), Bangalore.

(iv) A couple of meetings and discussions were held with Advt. Rajebhosale, Pune in order to verify the legal aspects of the contact agreement that is signed between IMS and IPL regarding online publication of JIMS.



(v) An arrangement was made to get the contract agreement (for online publication) signed by the office bearers of IMS and the representatives of the IPL.

(vi) The print copies of JIMS Volume 82, nos. 1-2 (January - June 2015) and JIMS Volume 82, nos. 3-4 (July-Dec. 2015) were received from Parashuram Process, Pune and preserved in the Library of the Mathematics Department, Savitribai Phule Pune University, Pune. The camera ready copy of The Math. Student, Vol. 84, Numbers 1-4, (2015) was 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. Dept., SSPU.

(vii) The copies of JIMS Vol. 82 (Nos. 1-2 ) (2015), Vol. 82 (Nos. 3-4)(2015) and The Mathematics Student (Nos. 1-2) (2015) have been sent to the subscribing institutes and Universities by registered parcels. The account of corresponding expenses has been maintained.

(viii) Arrangements were made for holding the meeting of the Academic Planning Committee on Sunday, the 5<sup>th</sup> July 2015 from 11.00am in the conference room of the Guest House of the Savitribai Phule Pune University, Pune.

(ix) IMS News Letter Nos. 33 and 34 were prepared and sent by e-mails to the life members of the IMS (with the help of the assistant).

(x) Invitation was sent to Mr. Jeet Mohapatra (Odisha) for attending the Inaugural function of IMS and receiving the P. L. Bhatnagar memorial prize awarded to him.

(xi) An arrangement has been made to bring the copies of The Math Student Vol. 84 (3-4, 2014) for release in the inaugural function of the 81st Annual conference of IMS.

(xii) 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.

(xiii) Substantial help was rendered to the General Secretary Prof. N. K. Thakare in the finalization of Newsletter Nos. 33 and 34.

**Item No. 6.** To receive the report of the Editor, The Journal of the Indian Mathematical Society for 2015.

Report of the Editor, Journal of the Indian Mathematical Society (2015).

Manuscript Status:

(a) Number of papers pending with the referee or under process at the end of 2015:	19
(b) Number of manuscripts received during the year 2015:	71
Total:	90
(i) Number of Manuscript accepted during 2015:	12
(ii) Number of manuscript rejected during 2015:	22

(iii) Number of manuscript with the referees during 2015:	56
Total:	90

**Publication Status (print):**

Volume 82(1 - 2) 2015 of the Journal of the Indian Mathematical Society was released during the Inaugural function of the Society in Dec 2014 and sent to the subscribers in Jan 2015. Volume 82 (3 - 4) 2015 of the Journal of the Indian Mathematical Society was released in September 2015 and sent to the subscribers. Volume 83 (1-2) 2016 is under preparation for release in Jan/Feb 2016.

**Publication status (online):** The Informatics India LTD people have started the online publication of JIMS by putting vol. 82 (1-2) and (3-4) online. The back volumes are yet to be put online.

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

**Item No. 7:** To receive the report of the Editor, The Mathematics Student for 2015. Report of the Editor of The Mathematics Student for 2015.

**Status of Initiatives taken:**

It may be recalled that in view of the suggestions mainly by Prof. Bruce C. Berndt and some other well wishers of our Society and online discussions with them since July 2013 to make the Mathematics Student more student oriented, the following initiatives, to begin with, were discussed and approved for implementation in the last IMS Council meeting at Dhanbad.

The printing of the abstracts of the papers presented at the annual conferences of the Society be discontinued from the 2015 issue of the Mathematics Student onwards.

The Problem Section targeting students and researches be started.

Frequency of publication be changed from One to Two, like JIMS.

It is a matter of great pleasure to announce that we have been successful in implementing all these three initiatives thanks to the excellent support from the Editorial Board members, their colleagues and other members of the mathematics community.

**Publication Status:**

The soft copy of the Vol. 84, Nos. 1- 2, January-June (2015) of The Mathematics Student was sent on line in June 2015 and that of the Vol. 84, Nos. 3- 4, July-December (2015) of The Mathematics Student was sent on line just few days before to all the

Life Members (who have registered their E-mail id on line on imsgoesgreen@gmail.com or jamanadaspat@gmail.com or sknimbhorkar@gmail.com ) at their registered E-mail addresses. Both these soft copies are available on the Society website as well.

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

**Manuscript Status:**

67 manuscripts are received during the period from December 24, 2014 to December 23, 2015 and 19 manuscripts were reported as pending with the referees in the last report.

Of these total 86 manuscripts, 26 are accepted, 49 are not accepted and 11 are pending with the referees.

**Acknowledgements:** The Editor take this opportunity to put on record our sincere thanks and profuse gratefulness to the 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. The Editor also expresses our sincere thanks to the Administrative Secretary Prof. M. M. Shikare and the Pune Press for their assistance in getting the Vol. 84, Nos. 1-2, January-June (2015) as well as the Vol. 84, Nos. 3-4, July-December (2015) of the Mathematics Student printed.

**Call for research 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 2015.

Report of the Librarian of the Society for 2015.

1. Ramanujan Institute Library has accommodated old but valuable collection of more than 500 IMS books. We issue these books to IMS members and kept as reference books for visitors.
2. During the period 2014-2015, we have received 55 journals under exchange program.
3. On an average two thousand members are using IMS Library every year. The visitors include both University and college faculties, students and research scholar. We are also attending to the needs of visitors and obliging request received from different parts of India.
4. Binding has not been done from 2003 onwards due to lack of funds. Loose issues occupy more space and get damaged easily. If IMS could sanction funds for this purpose it would be very helpful.

5. We require more racks for arranging books and journals. Extra fund may be allotted for purchase of racks.
6. Digitalization of journal of Indian Mathematical Society is essential. Old volumes of this available only IMS Library. Old volumes of this journals are delicate and so it is getting damaged year by year.
7. IMS journals both bounded and loose issues occupy a one big hall measuring 40X30 feet of Ramanujan Institute for Advanced Study in Mathematics Library. In addition an another room of the Institute measuring 20X20 feet occupies very old but multiple copies of IMS journals. These 18,585 loose issues are packed in about 130 sacks. The measurement of each sack is 3.0 X2.0 X15 feet. University of Madras requires this space immediately to conduct teaching program. If arrangements is made to disburse or donate them to other Institutions, it is of great help.
8. IMS journals and books are not computerized. Data entry work using Microsoft excel format for updating books and journals.
9. I hope that the points may be taken into account while releasing the grant for the year 2016-2017.

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

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

**Item No. 10:** To appoint Auditors to audit the accounts of the Society for the year 2015-2016.

M/S. Indapurkar and Mundada, Calda Corner, Aurangabad, were appointed as Auditors to audit the accounts of the Society for the year 2015-2016.

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

Prof. Satya Deo, Prof. J. R. Patadia, Prof. Girija Jayaraman, Prof. M. M. Shikare and Prof. Ahmad Ali 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 2016.

The Council decided that the programme of IMS sponsored lectures be continued for the year 2016.

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

The Council accepted the firm invitation from the Hon. Vice Chancellor, University of Kalyani, Kalyani, West Bengal for organizing the 82nd Annual Conference of the Indian Mathematical Society. Prof. Sanjib Kumar Datta, Department of Mathematics, University of Kalyani will be the Local Organizing Secretary.

**Item No. 14:** To constitute Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2016.

The Academic Planning Committee (APC) for Annual Conference of IMS to be held in 2016 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. Girija Jayaraman, Center for Atmospheric Science, IIT, Delhi, Dr. S. B. Nimse, Vice Chancellor, Lucknow University, Lucknow, and Prof. Ahmad Ali, Lucknow 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 2016-17:** Prof. D. V. Pai, IIT, Gandhinagar (Gujarat) for a period of one year with effect from April 01, 2016.

**Office Bearers ( for the next three years w.e.f April 1, 2016):**

- (a) General Secretary: Prof. N. K. Thakare
- (b) Academic Secretary: Prof. Peeyush Chandra
- (c) Treasurer: Prof. S. K. Nimbhorkar
- (d) Editor, JIMS: Prof. Satya Deo
- (e) Editor, The Math Student: Prof. J. R. Patadia

**Members of the Council for a period of three years w. e. f. April 1, 2016:**

Dr. S. P. Tiwari (Indian School of Mines, Dhanbad) and Prof. P. Veeramani (IIT, Chennai) for a period of three years w. e. f. April 1, 2016.

**Item No. 17:** To finalize the nomination of the Council for election to the office of the President of the Society for the year 2017 2018.

The Council nominated Prof. Majul Gupta, IIT, Kanpur for the election to the office of the President of the Society for a period of one year w. e. f. April 1, 2017.

**Item No. 18:** Appointment of the Librarian by the council.

Prof. R. Sahadevan, Director, Ramanujan Inst. for Advanced Study in Mathematics, University of Madras, Chennai, Tamil Nadu is appointed as Honorary Librarian of IMS till he holds the charge of Director of Ramanujan Inst. for Advanced Study in Mathematics, University of Madras, Chennai.

**Item No. 19:** To finalize nominations for the Council for election of members of the Council (against the vacancies caused by item (13)) for three years beginning from the year April 1, 2017.

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

**Item No. 20:** Terms and conditions for awarding the A. K. Agarwal award and the

A. M. Mathai award.

**(A) Terms and Conditions for A. K. Agarwal Award:** The following Terms and conditions for A. K. Agarwal Award has been finalized and Approved.

1. Name of the Award : A. K. Agarwal Award for Best publication in any journal in the world.
2. Amount of Donation: Rs. 1.20 lakhs (Rs.One lakh twenty thousand only)
3. Conditions of Award :
  - (a) The paper should be in the area of Number theory, Combinatorics, Discrete mathematics, Analysis and Algebra.
  - (b) The paper should be in single authorship. In exceptional cases, the paper by two authors could be considered. In this event the prize amount will be equally divided. The author/s should not submit more than one publication for this award.
  - (c) The upper age limit is 45 years on 31st December of the year of award and should be Indian citizen/s. In case of two authors both must be below 45 years.
  - (d) The papers considered must have been published either online or in print version whichever is earlier during the previous year of the year in which award is being given. The paper must have been published in an internationally refereed journal. More weightage could be given to well established journals.
  - (e) The author/s should be Indian citizen/s and must have carried out the said research work in India.
  - (f) If there is no good quality paper in a particular year then the award need not be given in that year.
4. Modus Operandi:
  - (a) The papers from all the contestants are to be judged by at least three experts with impeccable record as mathematicians before finalizing by consensus the winner of the award.
  - (b) The experts may be named by the General Secretary in consultation with the President, the Academic Secretary and the two Editors of JIMS and MS.
  - (c) The decision of the IMS shall be final and shall not be challenged in court of law.
5. The Award :
  - (a) The award shall consist of a citation and a cash prize of Rs.10,000 /-(Rs.Ten thousand only).
  - (b) The awardee/s shall be paid traveling allowance to the extent of II AC rail fare from the place of residence in India to the venue of the Annual Conference and back. This expenditure shall be incurred by the host institution that organizes the Annual Conference during the year of award.
  - (c) The awardee/s shall be provided free local hospitality and accommodation

during the period of conference by the host institute.

(d) The awardee shall have to deliver lecture based on text of the paper for which the award has been conferred.

(e) After every five years the cash amount may be revised, depending upon the rate of interest on the deposits earned from the bank/s.

(f) The author/s should submit a paper only for one award instituted by the IMS.

**(B) Terms and Conditions for A. M. Mathai Award:** The following Terms and conditions for A. M. Mathai Award has been finalized and Approved.

1. Name of the Award: A. M. Mathai Award for Best Publication in Applicable Mathematics.
2. Donation Amount: 5 lakhs.
3. Conditions:
  - a) The paper should contain significant original contribution in any branch of mathematics which has some applications in other fields such as Physical Sciences, Biological and Medical Sciences, Social Sciences, Probability and Statistics. Papers on theory for theory sake are to be excluded.
  - b) The paper should be a single-author paper.
  - c) The age limit should be 35 years on 31st December of the year in which the paper is considered for this award. The author should not submit more than one publication for this award.
  - d) The papers considered must have been published either online or in print version (whichever is earlier) during the previous year, in an international refereed journal. More weightage could be given to well established journals. The papers on routine generalizations, computations of formulae without proper analysis should not be considered for this award.
  - e) The author should be associated with any university/college/ institution in India where the work was done and the paper mentions the name of that institution as affiliation (the person need not be an Indian citizen).
  - f) If there is no good paper in a particular year then this award need not be given in that year.
  - g) The paper sent for this award should not have been submitted or rejected for any other award.
4. Modus Operandi:
  - a) Paper from all the contestants are to be judged by at least three experts with impeccable record as mathematicians before finalizing by consensus the winner of the award.
  - b) The experts may be named by the General Secretary of IMS in consultation

with the President of IMS, the Academic Secretary of IMS, and the Editors of JIMS and The Mathematics Student.

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

5. The Award:

a) The award shall consist of a citation and a cash prize of Rs. 30,000/-

b) The awardee shall be paid TA to the extent of II / AC rail fair from his / her place of residence in India or after landing in India (if not Indian citizen) and back. International travel shall not be supported in any event. This expenditure shall be incurred by the host institute that shall organize the Annual Conference of IMS during year.

c) The awardee be provided free local hospitality and accommodation during the period of conference.

d) The awardee shall have to deliver a lecture based on the text of the paper for which the award has been conferred.

e) After every five years the cash amount can be revised depending on the interest earned on the deposits from the bank/s.

f) Authors should submit a paper for only one award instituted by IMS.

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

The following two lectures were given as a part of Meenakshi Sundaram Patoudi lectures series.

(1) Prof S C Arora, Ex head, Dept of Maths, Delhi University delivered a lecture entitled "Mathematical logic and Fuzzy Logic" on Saturday, 26th Dec, 2015, at the Department of Mathematics and Astronomy, University of Lucknow, Lucknow.

(2) Prof. Sudhir Ghorpade, Department of Mathematics, IIT, Mumbai delivered one lecture at a College in Satara.

**Item No. 22:** Agreement with Informatics Pvt. Ltd., Bangalore concerning online publication of JIMS and digitization of the back volumes of JIMS.

The General Secretary of IMS furnished the following information pertaining to online publication of JIMS and digitization of the back volumes of JIMS:

The meeting of the office bearers of the IMS (Gen. Sec., Admn. Sec., Treasurer) and the representatives (Mr. S.A. Praveen, Mr. Somashekar) of the Informatics (India) Ltd., Bangalore concerning online publication of JIMS, was held on 4th June 2015 at 11.00 am in the Library, Department of Mathematics, Savitribai Phule Pune University, Pune. The contract agreement relating to online publication of JIMS had been signed between Indian Mathematical Society and the Informatics Publishing Limited, Bangalore on June 4, 2015. On behalf of the IMS, the agreement was signed by the General Secretary Prof. N. K. Thakare and the Administrative Secretary Prof. M. M. Shikare while on behalf of the Informatics Publishing Limited it was signed by Mr. S. A. Praveen and Mr. Jagannath. The Volume 82, 2015 is now available online on the website of Informatics Publishing Limited. The digitization of back volumes of JIMS



is expected to start soon.

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

Following items were discussed and approved by the Council of the Indian Mathematical Society.

**1) Honorarium to the speakers of the Memorial Award Lectures:**

It is decided that the honorarium to the speakers of the various Memorial Award Lectures be enhanced from Rs. 2500/- to Rs 5000/-. This change is effective from the year 2015.

**2) Membership fees to Foreign Nationals:**

i) Life Membership fees.

a) US \$ 500 for all foreigners.

b) US \$ 300 for foreigners who are members of the American Mathematical Society.

ii) Annual / Sessional Membership US \$ 50 to all foreigners.

**3) Shifting of I.M.S. Library:**

(i) Since the I.M.S. has its own premises at Pune, it is necessary that the library of I.M.S. be shifted to Pune and all activities pertaining to Library be carried out from Pune with the help of paid assistant/s.

(ii) The packed boxes of the periodicals of I.M.S. (JIMS and The Mathematics Students) housed at Ramanujan Institute for Advanced Studies in Mathematics, University of Madras, Chennai be transferred to Pune, where I.M.S. has its own premises. Prof. R. Sahadevan was requested to arrange transport for this transfer.

(iii) The exchange of journals programme should also be handled from Pune with immediate effect.

**4) Elections of office bearers/members of the council of IMS:**

The council has recommended and decided that, hence afterwards, the following clarity be made in the context of elections of office bearers of IMS and members of the council (whenever applicable) in the light of "GO GREEN INITIATIVE" of IMS.

**In the context of (h) of the constitution of IMS.** If a life 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 October 5, of that year. 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 modifications 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 shall be sent through e-mail by the Returning officers on the registered E-mail addresses of members of good standing of the society not later than November 10 of that year. The life members should take a print out, complete the formalities and send it by registered / speed post to the Returning officer so as to reach him latest by December 10 of that year.

The following (j) and (k) are reproduced as per the constitution of IMS for the purpose of information only.

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

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

N. K. Thakare  
General Secretary  
Indian Mathematical Society

#### **NOTICE OF THE ANNUAL GENERAL BODY MEETING**

The Annual General Body Meeting of the Indian Mathematical Society will be held on Friday, December 30, 2016 at 12.00 noon in the Department of Mathematics, Kalyani University, Kalyani (W.B.) to consider the following agenda.

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

#### **AGENDA**

1. To confirm the Minutes of the General Body Meeting held on December 30, 2015 at VNIT, Nagpur (Maharashtra).
2. To receive the report of the General Secretary for 2016.
3. To receive the report of the Academic Secretary for 2016.
4. To receive the report of the Administrative Secretary for 2016.
5. To consider the Audited Statement of Accounts for the year 2015-2016 and the Budget for the Financial Year 2017-2018.

6. To receive the report of the Editor of the Journal of the Indian Mathematical Society for 2016.
7. To receive the report of the Editor of the Mathematics Student for 2016.
8. To consider the venue of the 83<sup>rd</sup> Annual Session of the Society to be held in December 2017.
9. Announcement of the results of the following elections:
  - (i) President for 2017-2018;
  - (ii) Three members of the Council for a period of three years w. e. f. April 01, 2017.
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

August 20, 2016

**Highlights of the Academic Programme of the ensuing Conference at  
Kalyani University, Kalyani (W.B.) during December 27-30, 2016**

**1. Plenary Lectures : One**

The Plenary Lecture will be delivered by Prof. H. Mhaskar, Claremont Graduate University, Claremont, USA.

**2. IMS Memorial Award Lectures :**

1. The 30<sup>th</sup> P. L. Bhatnagar Memorial Award Lecture will be delivered by Prof. G. P. Raja Sekhar, IIT, Kharagpur.
2. The 27<sup>th</sup> Srinivasa Ramanujan Memorial Award Lecture will be delivered by Prof. Eknath Ghate, TIFR, Mumbai.
3. The 27<sup>th</sup> V. Ramaswamy Iyer Memorial Award Lecture will be delivered by Prof. C. S. Arvinda, TIFR CAM, Bangalore.
4. The 27<sup>th</sup> Hansraj Gupta Memorial Award Lecture will be delivered by Prof. Neena Gupta, ISI, Kolkata.

**3. One hour Invited Talks:**

Prof. Sanjeev Dhurandhar, IUCAA, Pune.

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

(i) Prof. G. P. Singh, VNIT, Nagpur.

(ii) Prof. S. Sundar, IIT, Madras.

(iii) Prof. R. Thangadurai, HRI, Allahabad.

(iv) Prof. Sudeshna Banerjea, Jadavpur University, Kolkata.

(v) Prof. Kapil K. Sharma, SAU, New Delhi.

(vi) Prof. D. K. Ganguly, Calcutta University, Kolkata.

(vii) Prof. Uma Basu, Calcutta University, Kolkata.

**5. Symposia:**

**A. Homological Aspects of Commutative Algebra,**

Convener: Prof. Jugal Verma, IIT, Bombay.

**B. Nonlinear Analysis, Optimization and Approximations,**

Convener: Prof. P. Veermani, IIT, Madras.

**C. Homology Theory of Transformation Groups,**

Convener: Prof. J. K. Maitra, R.D. University, Jabalpur.

**D. Advances in Theoretical Fluid Mechanics,**

Convener: Prof. Manoranjan Mishra, IIT, Ropar.

**E. Advances in Complex Analysis,**

Convener: Prof. Indrajit Lahiri, University of Kalyani.

**F. Integral Inequalities and Applications,**

Convener: Dr. S. D. Kendre, S. P. Pune University.

**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.

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**\* 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 Prize for 2016**

The 57<sup>th</sup> International Mathematical Olympiad (IMO) was held during July 6-16, 2016 at Hong Kong. The Indian team bagged 1 silver, 5 bronze medals and secured the 34<sup>th</sup> position. A six member team of students picked up from across the country schools was sponsored by the Homi Bhabha Centre for Science Education (HBCSE), an Institution under the Tata Institute of Fundamental Research (TIFR). A total of 602 students from 109 countries participated in the prestigious world event.

Kapil Pause (Goa) won the silver medal whereas Sutanay Bhattacharya and Supravat Sarkar from West Bengal, Madhusudhan Reddy from Andhra Pradesh, Anant Mudgal from Delhi and Deepesh Singhal from Pune won bronze medal.

Kapil Pause (Goa) was the top scorer at IMO from the Indian team. He will be awarded the P. L. Bhatnagar Memorial Prize of the Indian Mathematical Society for the year 2016. The prize carries a cash of Rs. 1000/- and a certificate. The Prize will be awarded to him in the Inaugural Session of the ensuing 82<sup>nd</sup> Annual Conference of the Society on December 27, 2016 at the Kalyani University kalyani.

**\* 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 104<sup>th</sup> Session of the Indian Science Congress Association will be held at SRM University, Chennai during 3-7 January 2017. The Focal Theme of the Session will be “Science & Technology for National Development”. Prof. D. Narayana Rao, Director Research, SRM University, SRM Nagar, Kattankulathur, Kancheepuram-603 203, is the General President.

Prof. Tarun Kumar Das, Professor of Mathematics, Faculty of Mathematical Sciences and Registrar, University of Delhi, Viceregal Lodge, Delhi - 110 007, is the Sectional President for the section of Mathematical Sciences (including Statistics).

**\* ISCA Young Scientist Awardee and Best Poster Awardee for Mathematical Sciences (including Statistics) for the Year 2015-16**

Abhik Ghosh, Indian Statistical Institute, Kolkata is the ISCA Young Scientist Awardee for the year 2015-16 for the Mathematical Sciences (including Statistics).

Lakshika Chutani, New Delhi and A.S. Praveena, Mysuru are the Best Poster Awardee for the year 2015-16 in the Mathematical Sciences.

The IMS congratulates these distinguished young researchers and wishes them the best in their pursuit of excellence.

**\*A. K. Agarwal Award for Best Publication**

The Indian Mathematical Society (IMS) has set 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 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 award is planned to be given every year.

One may refer to the website of the IMS: [www.indianmathsociety.org.in](http://www.indianmathsociety.org.in).

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

The Indian Mathematical Society (IMS) has set A. M. Mathai award 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).

**\* Prof. Geetha Rao passed away**

Prof. Geetha Srinivas Rao, former IMS President passed away on Sunday, July 24, 2016 at Chennai. The IMS fraternity extends its condolences to the bereaved family.

\* \* \*

**This News letter is Published by Prof. N. K. Thakare, General Secretary, Indian Mathematical Society at Pune (Maharashtra).**

**Dated: August 20, 2016**



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