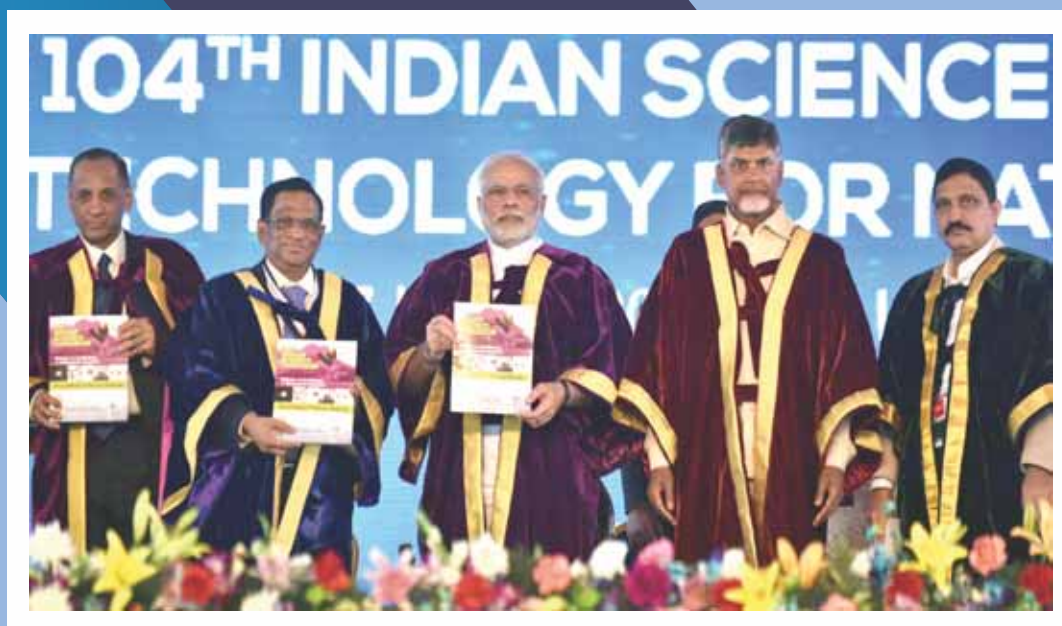


ANNUAL REPORT

2016-2017



**THE INDIAN
SCIENCE CONGRESS
ASSOCIATION
KOLKATA**



104TH INDIAN SCIENCE CONGRESS SCIENCE & TECHNOLOGY FOR NATIONAL DEVELOPMENT



3-7 January 2017 | SV University, Tirupati



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CONTENTS

PREFACE	Page
PROFILE OF THE INDIAN SCIENCE CONGRESS ASSOCIATION	1-2
THE HUNDREDTH FOUR SESSION OF INDIAN SCIENCE CONGRESS	3
Inaugural Session	3
Children Science Congress	3
Women's Science Congress	4
Science Communicators' Meet (SCM)	4
Science Exhibition: Pride of India Expo- 104 th ISC	6
Valedictory Session	6
Technical Programmes	7
Activities in Sections	25
ISCA Endowment Awards/Lectures	25
Major Recommendations	27
OTHER ACTIVITIES	
ISCA Chapters	35-41
Celebration of Hindi Programme	42
Publications	42
OTHER ITEMS	
ISCA Meetings	42
ISCA Representation in other Organizations	43
Membership	44
Organizational Set-up	44

ACKNOWLEDGEMENTS	Page
ANNEXURE -I Title of Addresses of Sectional Presidents of 104 th ISC Session	47
ANNEXURE -II Platinum Jubilee Lectures of 104 th ISC Session	48
ANNEXURE -III Titles of Symposia on specialized topics organised by the Sections of 104 th Indian Science Congress	49
ANNEXURE -IV List of Young Scientist Awardees for the year 2016-2017	50
ANNEXURE -V List of Best Poster Presentation Awardees for 2016-2017	52
ANNEXURE -VI List of infosys Foundation - ISCA Travel Awardees for 2016-2017	54
APPENDIX -I Members of the Council for 2016-2017	55
APPENDIX -II Members of the Council for 2017-2018	56
APPENDIX -III Personnel	57
APPENDIX -IV General Presidents of ISCA	58
APPENDIX -V General Secretaries of ISCA	62
APPENDIX -VI Treasurers of ISCA	63
AUDIT REPORT & ACCOUNTS	67-97

PREFACE

March 31, 2017 marked the completion of the 104th year of The Indian Science Congress Association. The 104th Indian Science Congress was held at Tirupati under the auspices of the S.V. University, Tirupati from January 3-7, 2017. Shri Narendra Modi, Hon'ble Prime Minister of India, inaugurated the Congress on 3rd January in the presence of Shri. E.S.L. Narasimhan, Hon'ble Governor of Andhra Pradesh and Telangana, Dr. Harsh Vardhan, Union Minister of Science and Technology, Shri Y.S. Chowdhary, Union Minister of State (Science and Technology), Government of India, Shri. N. Chandrababu Naidu, Hon'ble Chief Minister of Andhra Pradesh, A. Damodaram, Hon'ble Vice Chancellor, Sri Venkateswara University. Prof. D. Narayana Rao, General President of ISCA delivered his address on the Focal Theme "*Science and Technology for National Development*". The inaugural function was attended by over 15,000 delegates including quite a few overseas scientists.

There were Plenary Sessions, Panel Discussions and Public Lectures devoted to different facets of the Focal Theme in which Nobel Laureates, many eminent scientists, technologists, policy-makers, industrial executives from industrial sector and social activists participated. Following the past tradition, Symposia on different interesting topics were organized in 14 sections besides the Platinum Jubilee Lectures which constituted a significant component of the entire programme. Invited Lectures and Paper Presentations (through Posters/Oral) organised in different sections were highly applauded.

Infosys ISCA Travel Awards were presented to the school children. Special emphasis was given on ISCA Young Scientists' Programme in sections and the awards were presented to Young Scientist Awardees. A large number of students from the neighbourhood schools and colleges visited and participated in the Children Science Congress.

Apart from this the 10th Rashtriya Vigyan Sancharak Sammelan (Science Communicators') was organised with Vigyan Prasar and support from NCSTC, DST, New Delhi, where Science Communicators selected from different Chapters of ISCA participated.

The 6th Women Science Congress was organised on the theme "*Empowering Women in Science and Technology*" with support from NCSTC, DST, New Delhi where women scientists from all over the country participated.

Children Science Congress was also organised with support from NCSTC, DST, New Delhi.

The Valedictory marking the end of the event of 104th Indian Science Congress was held at Srinivasa Auditorium, Sri Venkateswara University, Tirupati on 7th January, 2017. The dignitaries for the function were Dr. C.H. Vidyasagar Rao, Hon'ble Governor of Maharashtra, Shri. Y.S. Chowdhary, Union Minister for State (Science and Technology), Government of India, Prof. A. Damodaram, Hon'ble Vice Chancellor of Sri Venkateswara University, Prof. D. Narayana Rao, General President, ISCA, and Prof Achyuta Samanta, General President (Elect), ISCA. On this occasion, Young Scientist Awards and Best Poster Awards were also presented. Prof. Gangadhar, General Secretary (Membership Affairs), ISCA, and Prof. P.P. Mathur, General Secretary (Scientific Activities), were also present.

Twenty four ISCA Chapters continued their activities during the year under report by organising seminars, symposia, lectures, quiz contests, etc. Among various activities, the Chapters observed National Science Day, World Environment Day, World Wetland Day, Earth Day, National Technology Day, World Health Day, World AIDS Day, National Children Day, Teachers Day, etc.

The Chapters organised National Seminars on Focal Theme of 104th ISC.

The Association feels greatly honoured for receiving active financial support from Department of Science & Technology, Govt. of India, to carry out many of its intended activities and to execute improvements over its existing infrastructure. Attempts are being made to expand resource base and improve the fund position by effective fiscal management. The strength of Association lies in the strong support being received from its members.

21st September, 2017



(Prof. Gangadhar)
General Secretary (Membership Affairs)
The Indian Science Congress Association

PROFILE OF THE INDIAN SCIENCE CONGRESS ASSOCIATION

The Indian Science Congress Association (ISCA) is a premier scientific organization of the country established in 1914. ISCA has been promoting science and inculcating the spirit of science through its multifarious activities. ISCA meets in the first week of January in an Annual Congress of scientists, science administrators, policy makers and the general public to give a stronger impulse and a more systematic direction to the scientific inquiry, to promote the interaction of societies and individuals interested in science in different parts of the country and to obtain a more general attention to the objects of pure and applied sciences. ISCA brings together scientists both from India and abroad for mutual interaction in the cause of national development. Annual Congress of the Association has been held every year ever since 1914 with a very distinguished scientist as its General President.

The Association was formed with the following objectives:

1. To advance and promote the cause of Science in India;
2. To hold an annual Congress at a suitable place in India;
3. To publish such proceedings, journals, transactions and other publications as may be considered desirable;
4. To secure and manage funds and endowments for the promotion of Science including the rights of disposing of, or selling all or any portion of the properties of the Association;
5. To do and perform any or all other acts, matters and things as are conducive to, or incidental to, or necessary for, the above objectives.

Since its foundation, the Association has steadfastly worked to uphold its lofty objectives. The scope of its activities has expectedly increased many fold since 1914. The first Session of the Congress was held during January 15-17, 1914 at the premises of The Asiatic Society, Kolkata, with the Honourable Justice Sir Asutosh Mookerjee, the then Vice-Chancellor of the Calcutta University, a General President. One hundred and five Scientists from different parts of India and abroad attended and papers numbering 35 were divided into six sections; Botany, Chemistry, Ethnography, Geology, Physics and Zoology under six Sectional Presidents. From these relatively modest beginnings ISCA has grown into a strong fraternity with nearly forty thousand members – who participate in fourteen different sections of the Congress. The number of papers communicated for presentation has risen to more than one thousand five hundred. After independence ISCA has been actively interacting with various foreign Scientific Academies/Associations, namely, British Association for the Advancement of Science, American Association for the Advancement of Science, French Academy of Sciences, Bangladesh Academy of Sciences, Sri Lanka Association for the Advancement of Science, Beijing Association for Science & Technology and others with a view to have a fruitful interactions on topics of mutual interest.

The year 1976 witnessed a significant departure in the trend of deliberations during the Congress. It was being felt for sometime that such a gathering of scientists, covering a wide spectrum and seized of national issues that have scientific and technological implications to adopt a cogent theme every year. In 1976, Dr. M.S.Swaminathan, the then General President of ISCA, introduced the concept of Focal Theme of national relevance which is now discussed at an Annual Session of the Indian Science Congress. Further, several plenary sessions are organised around various facets of the Focal Theme in which scientists and technologists as well as policy makers and administrators interact with one another. ISCA has thus become an important platform where members from different disciplines and from different walks of life contribute to discussions on the Focal Theme.

Another significant breakthrough was made in 1980, when the Department of Science and Technology, Government of India, set up a permanent Task Force involving representatives of ISCA and chiefs of different agencies and voluntary organizations. Chaired by the Secretary, DST, as being responsible for follow-up action on various recommendations on the Focal Theme. Every year followup actions on recommendations made in the previous Science Congress are discussed at a General Session organized by DST during the Science Congress. Through this process, the Indian Science Congress Association has been contributing to the development of Science in general and National Science Policy, in particular.

ISCA introduced a programme for the benefit of young scientists from its 68th Session in 1981. The Programme enables young scientists to present their proposed research work with opportunities to exchange ideas in the relevant scientific problems with their counterparts and specialists. For the best presentations, such young scientists are given the ISCA Young Scientist Award. The Young Scientist Award has been enhanced from ` 5,000/- to ` 25,000/- from 2006 to encourage talented young scientists.

A substantial number of the contributed papers, which are accepted on the basis of a careful screening to be done by the concerned Sectional Presidents with the help of some experts, are presented by way of posters. Further, to encourage scientists it was decided that at most two Prizes of ` 1000/- in cash along with a certificate be awarded to the Best Poster presentation in each section from 1999 Session. The value of these prizes were enhanced to ` 5,000/ - from 2007. From its 101st Session in 2014 it has been converted to a separate programme. Oral presentations of selected contributed papers are also included in the programme of each section.

The Indian Science Congress Association has instituted several Awards to honour and encourage scientists in India – mainly through special endowments received from individuals and groups and also from its own funds. The concept of instituting Awards started from 1965 onwards and presently there are about more than 40 Awards/Lectures that are given by ISCA. From 2013 Asutosh Mookerjee fellowship has been started for senior scientists. At present there are Ten regular fellows.

THE HUNDREDTH FOUR SESSION OF INDIAN SCIENCE CONGRESS

INAUGURAL SESSION

The 104th Indian Science Congress was inaugurated in the morning of January 3, 2017 at Tarakarama Stadium in Sri Venkateswara University, Tirupati by Shri. Narendra Modi, Hon'ble Prime Minister of India, in the presence of Shri. E.S.L.Narasimhan, Hon'ble Governor of Andhra Pradesh and Telangana, Dr. Harsh Vardhan, Union Minister of Science and Technology & Earth Sciences, Shri Y.S.Chowdhary, Union Minister of State (Science and Technology), Government of India, Shri. N.Chandrababu Naidu, Hon'ble Chief Minister of Andhra Pradesh, Prof. A.Damodaram, Hon'ble Vice Chancellor, Sri Venkateswara University and Dr. D. Narayana Rao, General President, The Indian Science Congress Association.

Dr. D. Narayana Rao, General President, The Indian Science Congress Association welcomed the dignitaries and delivered his Presidential Address, on the focal theme "Science and Technology for National Development". Dr. Harsha Vardhan, Union Minister of Science and Technology, Government of India gave his speech. Shri N.Chandrababu Naidu, Hon'ble Chief Minister of Andhra Pradesh delivered his address.

The Hon'ble Prime Minister of India Shri. Narendra Modi released the 104th ISC Plenary Proceedings and presented ISCA awards to Scientists. He also felicitated and gave mementoes to six Nobel Laureates across the globe. He also presented Gold Medals to eminent persons working in various fields of Science and Technology. In his inaugural address, he referred to the constraints involved in securing and completing research projects and stressed the need to ensure 'ease of doing science' as an empowering factor for scientific delivery.

The inaugural session was attended by a large number of foreign scientists, distinguished scientists from various agencies of Government of India, academicians, Vice Chancellors of various Universities, Members of Parliament, Senior functionaries from the Government of Andhra Pradesh, representatives from Industry, students and scholars from different parts of India and abroad.

CHILDREN SCIENCE CONGRESS

Hon'ble Chief Minister of Andhra Pradesh, Shri Chandrababu Naidu inaugurated Children Science Congress in Padmavathi Mahila Vishva Vidyalaya, Tirupati on 4 January 2017 in presence of Shri Y.S. Chowdhary, Hon'ble Minister of State for Science & Technology and Earth Sciences and Dr. Takaki Kajita, Nobel Laureate from Japan, Prof. A. Damodaram, Vice Chancellor, Prof. P.P. Mathur, General Secretary (Scientific Activities), Prof. Gangadhar, General Secretary (Membership Affairs), and Prof. D. Narayana Rao, General President ISCA.

Infosys Travel Awards were presented to school students. Prof. P.P. Mathur General Secretary (Scientific Activities), Prof. Gangadhar, General Secretary (Membership Affairs) and Prof. A.K. Saxena, Immediate Past General President were also present.

In his inaugural speech, Shri Chandrababu Naidu delivered an inspirational message for young children who want to take up Research & Development and addressed them as the "Future of India". He also mentioned that education for girl child is a must for the development of India on all fronts. He encouraged the children to have Scientists as their role model and strive for achieving their set goals. To encourage the young minds, Shri Chandrababu Naidu announced an award of Rs. 100 crore to the Scientist who wins a Nobel Prize from Andhra Pradesh.

He then invited Dr. Takaki Kajita, the Nobel Laureate, to give some tips to the students so that they can also dream of being scientists. Dr. Kajita told the students that hard work with aim is the only way to become successful in life.

The Children Science Congress, an important event of the Indian Science Congress, is organized to provide a unique opportunity to children of the age group of 10-17 years to use their scientific temperament and knowledge and to quench their thirst for creativity by conducting scientific experiments. The three days' event encouraged children to stimulate their scientific temperament by giving the school children a unique platform to showcase their innovation and creativity in scientific projects.

About 7-8 lakhs school children in the age group of 10-17 yrs participated at various levels from the districts, states & union territories. Around 2 to 3 best projects from each state participated in Indian Science Congress is then identified for the award based on the originality.

WOMEN'S SCIENCE CONGRESS

The 6th Women Science Congress was inaugurated by Hon'ble Chief Minister Chandrababu Naidu in presence of Shri Y. S. Chowdary, Union Minister of State for Science & Technology & Earth Sciences & Prof. D. Narayana Rao, General President, ISCA, on 4th January 2017 in Srinivasa Auditorium at SV University, Tirupati.

This programme is intended to showcase the contribution of women in Science and Technology. Renowned women scientists participated and delivered lectures in this session with aim to empower the women and to inculcate scientific interest and temper among them.

Prof. Neeta Singh, Professor, Department of Biochemistry, NDMC Medical College & Hindu Rao Hospital, started the session and spoke about her cancer research. She explained about Human Papilloma virus and cervical cancer to the audience in layman's language. Her speech includes the treatment and diagnosis of cervical cancer. The treatment of cervical cancer includes LEEP, Laser, Cryotherapy, cone biopsy and she explained in brief about these. She also spoke about the importance of education in girls.

Prof. H.S. Savithri, Department of Biochemistry, IISC, Bangalore, advised the young students for the development of women in the society.

Other eminent women scientists like Dr. B. Vengamma, Director, Sri Venkateswara Institute of Medical Sciences (SVIMS) & Prof. D Usha Rani were also encouraged the young women and advised to step out of their home and achieve something.

SCIENCE COMMUNICATORS' MEET

The 10th Science communicators' meet was inaugurated on 5th Jan 2017 at 10.30 AM in the Botany Seminar Hall of Sri Venkateswara University, Tirupati. Inaugural address was given by Prof. Hemanth Joshi, Indian Institute of Mass Communication, New Delhi. Prof. P.P. Mathur, General Secretary, Scientific Activities, ISCA welcomed the guests. The key note address was given by Prof. A. Damodaram, Vice-Chancellor, Sri Venkateswara University, Tirupati. He also released the Souvenir. Prof. D Narayana Rao, General President, ISCA presided over the function. The vote of thanks was given by Prof. Gangadhar, General Secretary, Membership Affairs, ISCA.

The technical session started with panel discussion on "Challenges in Science communication. A State of Art Perspective." The session was chaired by Dr. R. Gopi Ramachandran, Director, Vigyan Prasar, New Delhi. The other speakers were Dr. Dineesh. C. Sharma, News and Media specialist, Dr. Gita Bamzai, IIMC, New Delhi, Dr. T. V. Venkateswaran, Vigyan Prasar and Dr. Sarita Ahlwat, IIT, New Delhi.

Oral Presentations followed this technical session. The first presentation was by Abhay SD Rajput on “The other side of Science: Towards Better Science Communication Skills”, Present and Future Prospect of Ultrafast Laser by Susanta Kumar Das, and “Sustainable Development for India’s Pursuit of Happiness” by Bharathi Ravikrishnan. This session was chaired by Prof.S.Ramakrishna, Dept of Zoology, Bangalore University, Bangalore.

The next technical session of oral presentations was started by Abheek Chaudhuri on Emergence of Bioinformatics and its Applications. This session was chaired by Prof.C.Muthamizhchelvan, Director, Faculty of Engineering and Technology, SRM Univ, Kattankulathur, Chennai. Other oral presentations followed.

The technical session on 6th Jan 2017 started with poster session followed by panel discussion represented by the Heads of the National Council for Science Museums of the Ministry of Culture, CSIR NISCAIR and DST’s Vigyan Prasar (Dr Anil Manekar, Dr Manoj Patariya and Dr R Gopichandran respectively). They presented an overview of the activities carried out as part of the governmental framework and proposed pathways for value added outputs as part of the way ahead. This was followed by oral presentation and the session was chaired by Dr.T.V.Venkateswaran, Vigyan Prasar, New Delhi and later by Prof.P.Neeraja, Prof of Zoology, S.V.University, Tirupati and Convener of Science communicators’ meet. The last technical session was chaired by Prof.S.Krupanidhi, Vignan University, Guntur.

Valedictory function was conducted at 4.30 PM on 6th Jan’ 17. The guests were welcomed by the Convener Science Communicators’ Meet, Prof.P.Neeraja. Prof.P.P.Mathur General Secretary, Scientific Activities, ISCA presided and valedictory address was given by Prof.Gangadhar, General Secretary, Membership Affairs, ISCA. Finally Vote of Thanks was given by Dr. Amit Krishna De, Executive Secretary, ISCA.

Recommendations

One of the immediate objectives of the above stated academic event is to acknowledge the fact we as a community of communicators is poised to take science communication ahead through strategically important adaptations of institutional and capacity enhancement interventions on the basis of a well-defined road map.

They are:

1. Stimulate curiosity and confidence in stakeholders to ask questions to tackle pre-conceived notions
2. Deliver appropriate information in a timely manner based on a clear understanding of the
 - a. ability of stakeholders to comprehend &
 - b. Architecture of circumstances that can transform learning into real life benefits.This also calls for focused capacity building of communicators to articulate suitably and use multiple tools of communication for improved / enhanced delivery
3. Present facts in an unbiased manner and highlight the open-endedness / continually evolving nature of knowledge systems
4. Acknowledge eagerness to learn and foster interest with the help of locally adapted teach and learn modules
5. Optimize on forms and functions of science communication as public policy tools for real engagement gains and in this process overcome the predicament of trivialization faced by science communication and communicators in general.

SCIENCE EXHIBITION: PRIDE OF INDIA EXPO-104TH ISC

Chief Minister N. Chandrababu Naidu inaugurated the Pride of India (Pol) Expo, hosted as part of the 104th Indian Science Congress (ISC), at Sri Venkateswara University (SVU) campus here on Tuesday, the 3rd January, 2017. Mr. Naidu, flanked by Union Minister of State for Science and Technology Y.S. Chowdary, State Ministers Ganta Srinivasa Rao (HRD), Bojjala Gopalakrishna Reddy (Environment and Forests) and others, initiated the proceedings by lighting the ‘Vigyan Jyot’. He later visited the stalls set up by various departments and institutions of Andhra Pradesh, followed by those set up by R&D organizations, academic institutions and many more, evincing keen interest in the exhibits.

The mega science expo was organized to describe and display the latest innovations and applications of Science and Technology to the general masses including students who visited the Expo. Department of Science & Technology (DST) participated in Pride of India - Science Expo - 2017 held from 3-7 January, 2017. This stall of DST received the ‘Most interactive pavilion award’.

DRDO pavilion has been a major attraction at the Pride of India Expo amongst visitors and student, 40 DRDO laboratories are participating at the expo to showcase state-of-art military systems and technologies at the DRDO Pavilion which narrate the saga of Self-reliance & National Pride with the “Make in India” spirit. Star attractions of the outdoor exhibits include the Long Range Surface-to-Surface Ballistic Missile Agni-5, Akash Weapon System, Shaurya Missile, the model of the Brahmos missile, Remotely Operated Vehicle Daksh Robot etc.

The other organizations like DAE, CSIR, Ministry of Earth Sciences and other S&T Department and Agencies also had their exhibits along with some stalls from the state governments and other private industry. All of them were based on the themes implied by the Government of India like Swachh Bharat, Make in India, Digital India etc, which inspired people to innovate and further improve science and technology for the betterment of mankind.

VALEDICTORY SESSION

The valedictory marking the end of the event of Indian Science Congress was held at Srinivasa Auditorium, Sri Venkateswara University, Tirupati on 7th January, 2017 at 4:30 P.M. The dignitaries for the valedictory function were Dr. Ch. Vidyasagar Rao, Hon’ble Governor of Maharashtra, Shri. Y.S. Chowdhary, Union Minister of State for Science & Technology and Earth Sciences, Government of India, Prof. A. Damodaram, Hon’ble Vice Chancellor of Sri Venkateswara University, Prof. D. Narayana Rao, General President, ISCA, three Ministers from Government of Andhra Pradesh, Dr A K Saxena, immediate Past General President, ISCA. The Vigyan Jyoth was handed over by Prof D Narayan Rao, General President to Dr Achyuta Samanta , General President Elect. On this occasion Young Scientist Awards and Best Poster Awards were also presented. Prof. S. Vijaya Bhaskara Rao, proposed the vote of thanks.

TECHNICAL PROGRAMMES

PUBLIC AND PLENARY PROGRAMME SCHEDULE

January 3, 2017

Speaker **Prof. Ada E Yonath, Nobel Laureate**
Weizmann Institute of Science, Rehovot, Israel

Chairman **Prof. D. Narayana Rao**
General President, ISCA

Special Lecture:

Speaker **Prof. Kip S. Thorne**
California Institute of Technology, USA

Chairman **Prof. B.P. Chatterjee**
Maulana Abdul Kalam University of Technology
Kolkata

Panel Discussion: Ministry of Science and Technology Perspectives:

Speaker **Prof. William E Moerner, Nobel Laureate**
Stanford University, USA

Chairman **Prof. Ashok Kumar Saxena**
Immediate Past General President, ISCA

Speaker **Prof. Takaaki Kajita, Nobel Laureate**
Institute for Cosmic Ray Research, University of Tokyo, Japan

Chairman **Prof. P. Rama Rao**
International Advanced Research Centre for Powder Metallurgy,
Hyderabad

- Speakers**
- Dr. M. Annadurai**
Director, ISRO Satellite Centre, Bengaluru
- Dr. Y.V.N. Krishna Murthy**
Director, National Remote Sensing Centre, Hyderabad
- Mr. S. Somanath**
Director, Liquid Propulsion System Centre (LPSC), ISRO
Trivandrum
- Mr. Tapan Misra**
Director, Space Applications Centre, SAC, Ahmedabad

Plenary Session **Nanotechnology**

- Convenor** **Prof. Ajay Kumar Sood, FRS**
Indian Institute of Science, Bangalore
- Co-Convenor** **Prof. S.P. Singh**
Kurukshetra University, Kurukshetra
- Speakers**
- Prof. S. Sampath**
Indian Institute of Science, Bangalore
- Prof. Satishchandra B. Ogale**
Indian Institute of Science Education and Research, Pune
- Prof. Tata Narasing Rao**
International Advanced Research Centre for Powder
Metallurgy & New Materials (ARCI), Hyderabad

Plenary Session **Frontiers of Defence Research**

- Convenor** **Dr. G. Satheesh Reddy**
Scientific Advisor to Defence Minister, Govt. of India
- Co-Convenor** **Prof. Ranjit Kumar Verma**
Magadh University, Bodh Gaya
- Speakers**
- Dr. (Mrs.) Shashi Bala Singh**
Director, Defence Institute of Physiology & Allied Sciences, Delhi
- Dr. S. Christopher**
Secretary & DG DRDO,
Department of Defence Research & Development
DRDO Bhawan, New Delhi

Dr. M.H. Rahaman
Outstanding Scientist & Chief Controller (TM)
Department of Defence Research & Development
DRDO Bhawan, New Delhi

Dr. G. Athithan
DG (MED, CoS & CS), DRDO, New Delhi

Plenary Session **S & T in the Neighbourhood, Extended
Neighbourhood & African Countries**

Convenor **Dr. Harsh Vardhan**
Hon'ble Union Minister for Science and Technology & Earth Science,
Govt. of India

Co-Convenor **Prof. D. Narayana Rao**
General President, ISCA

Plenary Session **Next Generation Network & Disaster
Management**

Convenor **Prof. Navrati Saxena**
School of Information and Communication Engineering, South Korea

Co- Convenor **Prof. S. Ramakrishna**
Bangalore University, Bangalore

Speakers **Prof. Sajal K. Das**
Chair, Missouri University of Science & Technology, Rolla, M.O, USA

Dr. Abhishek Roy
Network Systems Division, Samsung Electronics, Seoul, South Korea

Prof. Dharma P. Agrawal
University of Cincinnati, Cincinnati, OH, USA

Prof. M.S. Prasad Babu
College of Engineering, Andhra University, Visakhapatnam

Prof. Snehanshu Saha
Dept. of Computer Science and Engineering, PESIT, Bangalore

Plenary Session **Methanol Economy**

Convenor **Dr. V. K. Saraswat**
Member, NITI Aayog, Govt. of India, New Delhi

Co-Convenor **Prof. R. Ramamurthy**

Speakers
Former Vice Chancellor, S.V. University
Prof. G.K. Surya Prakash
George A. and Judith A. Olah Nobel Laureate Chair
Donald P. and Katherine B. Loker Hydrocarbon Research Institute,
Department of Chemistry,
University of Southern California, Los Angeles, USA

Mr. Dom La Vigne
Director of Government & Public Affairs – Asia
Pacific/Middle East, Singapore, Methanol Institute, Singapore

Plenary Session

Science Policy for Technology Led Innovation for Societal Applications

Convenor **Dr. Baldev Raj**
Director, National Institute of Advanced Sciences, Bangalore

Co-Convenor **Prof. Geetha Bali**
KSWU, Karnataka

Panel Discussion

Members **Dr. S. Ayyappan**
Former Secretary (DARE) & DG (ICAR)
Ministry of Agriculture, Krishi Bhavan, New Delhi

Prof. D. Balasubramanian
Director Research, L V Prasad Eye Institute
L V Prasad Marg, Banjara Hills, Hyderabad

Prof. Ambuj Sagar
Indian Institute of Technology Delhi, New Delhi

Prof. N.S. Vyas
Department of Mechanical Engineering
Indian Institute of Technology Kanpur, Kanpur

Dr. Sunil Shukla
Director, Entrepreneurship Development Institute of India,
Gandhinagar

Dr. Venkatesh Dutta
Department of Environmental Science
BBAU, Vidya Vihar, Lucknow

Dr. Neeraj Sharma
Head, Technology Development Transfer
Department of Science & Technology
Technology Bhavan, New Mehrauli Road, New Delhi

Speaker **Prof. M. Younus, Nobel Laureate**
Founder, Grameen Bank, Bangladesh

Chairman **Prof. D. Narayana Rao**
General President, ISCA

January 5, 2017

Speaker **Prof. Serge Haroche, Nobel Laureate**
College De France, Paris

Chairman **Prof. Naresh Padha**
University of Jammu, Jammu

Public Lecture

Speaker **Dr. R. Chidambaram**
Principal Scientific Adviser to the Government of India &
Chairman, SAC-C

Plenary Session **Cloud Computing and Virtualization**

Convenor **Prof. Biswanath Mukherjee**
Distinguished Professor, University of California, Davis, USA

Co-Convenor **Prof. S.V. Kasmir Raja**
SRM University, Chennai

Speakers **Dr. Goutam Das**
G S Sanyal School of Telecommunications,
Indian Institute of Technology, Kharagpur

Shri. E. Iniya Nehru
Senior Technical Director
National Information Centre (NIC), Chennai

Shri. S. Gopinath
Principal System Analyst, National Informatics Centre (NIC), Chennai

Mrs. Pamela Kumar
Vice President, Cloud Computing Innovation Council of India, Bengaluru

Plenary Session

5G & Internet of Things (IOT)

Convenor

Prof. Biswanath Mukherjee

Distinguished Professor, University of California, Davis, CA, USA

Co-Convenor

Prof. C. Muthamizhchelvan

SRM University, Chennai

Speakers

Dr. Rishi Bhatnagar

President, Aeris Communications, New Delhi

Prof. Bhabani Sinha

Professor, IEEE Fellow

Advanced Computing & Microelectronics Unit

Indian Statistical Institute, Kolkata

Dr. Vijay Mishra

Centre for Nano Science & Engineering (CeNSE)

Indian Institute of Science, Bangalore

Plenary Session

Mentorship and Networking in Science

Convenor

Prof. Chellu S. Chetty

Associate VP for Research, Savannah State University GA, USA

Co-Convenors

Dr. A. Mukhopadhyay

Head, INSPIRE Program,

Department of Science and Technology, New Delhi

Dr. G. James Pitchai

PGPEducational and Welfare Society, Chennai

Speakers

Dr. Christine Pfund

UW Research Mentoring Initiatives, Department of Medicine,

University of Wisconsin, Wisconsin, USA

Prof. Jamboor K. Vishwanatha

Regents Professor and Vice President, Health Science Center

University of North Texas, Texas, USA

Prof. Prasad Dhulipala

Scientist Advisor, Molecular Biology Baker Hughes

Upstream Chemicals- Chemical and Industrial Services,

Sugar land TX, Texas, USA

Prof. Pudur Jagadeeswaran
Division of Biochemistry and Molecular Biology,
University of North Texas, Texas, USA

Prof. Srinivas Pentyala
Director of Translational Research,
Associate Professor of Anesthesiology, SARAS Coordinator, Stony Brook
Medical Center, NY, USA

Plenary Session

Swachh Bharat

Convenor

Dr. Vinod Tare
Professor, Environmental Engineering and Management Programme,
Department of Civil Engineering
IIT Kanpur, KANPUR

Co-Convenor

Prof. Bhupati Naidu
SV University, Tirupati

Speakers

Dr. V. V. Rao
National Remote Sensing Centre, Indian Space Research Organization,
Department of Space, Government of India, Hyderabad

Dr. B. Chandra Sekhar
Director, Central Leather Research Institute
Adyar, Chennai

Plenary Session

S & T Achievers Meet

Convenor

Prof. D. Narayana Rao
General President, Indian Science Congress Association

Speakers

Dr. Suman Kumar Dhar
Special Centre for Molecular Medicine, Jawaharlal Nehru University, New
Delhi

Dr. Rajeev Kumar Varshney
Centre of Excellence in Genomics, International Crops
Research Institute for the Semi-Arid Tropics, Hyderabad

Dr. Suvendra Nath Bhattacharyya
Molecular and Human Genetics Division, CSIR- Indian
Institute of Chemical Biology, Kolkata

Dr. Sunil Kumar Singh
Geosciences Division, Physical Research Laboratory
Ahmedabad

Dr. Suman Chakraborty

Department of Mechanical Engineering, Indian Institute of Technology
Kharagpur

Dr. Venkata Narayana Padmanbhan

Research Manager, Microsoft Research India, Bangalore

Dr. Eknath Prabhakar Ghate

School of Mathematics, Tata Institute of Fundamental Research, Mumbai

Dr. Amol Dighe

Department of Theoretical Physics, Tata Institute of Fundamental Research

Dr. Subramanian Anantha Ramakrishna

Department of Physics, Indian Institute of Technology, Kanpur

Dr. Sudhir Kumar Vempati

Centre for High Energy Physics, Indian Institute of Science, Bangalore

Plenary Session

Smart Cities

Convenor

Dr. Sameer Sharma

Additional Secretary and Mission Director (Smart Cities)
Ministry of Urban Development, Govt. of India
Room: 138-C, Nirman Bhawan, New Delhi

Co-Convenor

Prof. Dhyandendra Kumar

V.K.S. University, Arrah

Speakers

Prof. Jagan Shah

Director, National Institute of Urban Affairs
India Habitat Centre, Lodhi Road, New Delhi

Sri V. Vinay Chand, IAS

Commissioner, Tirupati Municipal Corporation, Tirupati

Plenary Session

Indian Nuclear Programme

Convenor

Dr. Sekhar Basu

Chairman, Atomic Energy Commission and Secretary, DAE,
Mumbai

Co-Convenor

Prof. R.K. Verma

Patna University, Patna

Speakers**Dr. Sarbani Ghosh**

Radiation Oncologist Tata Memorial Hospital
Dr. E Borges Road, Parel, Mumbai

Prof. R. Balasubramanian

Institute of Mathematical Sciences, CIT Campus
Taramani, Chennai

Dr. S. Gautam

SO/G, Food Technology Division
Bhabha Atomic Research Centre, Trombay, Mumbai

Plenary Session**Scientific Applications of HPCC****Convenor****Prof. Prasant Goswami**

Director, CSIR- National Institute of Science Technology and
Development Studies (NISTADS), New Delhi

Co-Convenor**Prof. B. Satyanarayana**

Osmania University, Hyderabad

Speakers**Prof. G.P. Das**

Senior Professor
Indian Association for the Cultivation of Science
Jadavpur, Kolkata

Mr. Joevin Fernando

Vice President, Metrics, Analytics and Bench Marking Group,
Operations Wells Fargo,
San Francisco, California, USA

Dr. VCV. Rao

Associate Director/ Head of Division
High Perf. Comp. – Frontier Technologies Exploration Group
(HPC- FTE Group)
C- DAC, Pune University Campus, Pune

G. P. Chatterjee Memorial Award Lecture**Co-Convenor****Prof. Vijay Laxmi Saxena**

Past General Secretary, ISCA

Plenary Session**Sports Science and Sports Medicine****Convenor**

Dr. Jaspal Sandhu, Secretary, UGC

Co-Convenor **Prof. P.P. Mathur**, KIIT, Bhubaneswar

Speakers **Dr. Sanjeev Sahni**, Sports Psychologist, JSW

Dr. Rajdeep Kaur, Dean, FOSS, Sports Authority of India

Shri. Injeti Srinivas, Secretary, MYAS & DG, SAI

Shri Vijay Goel, Minister of Youth Affairs & Sports,
Govt. of India

Plenary Session **Food and Nutrition Security**

Convenor **Prof. M.S. Swaminathan**
Emeritus Convenor and Chief Mentor
M S Swaminathan Research Foundation (MSSRF), Chennai

Co-Convenor **Prof. Vijay Laxmi Saxena**
Bioinformatics Infrastructure Facility Centre, Kanpur

Speakers **Prof. K. Ramasamy**
Vice- Chancellor, Tamil Nadu Agricultural University
Coimbatore

Dr. R. Rukmini
Director – Food Security
MSSRF, Chennai

R.V. Bhavani
Project Manager, LANSAs
MSSRF, Chennai

Plenary Session **Bioresources – Impact of Climate Change**

Convenor **Prof. R. Ramamurthi**
Chairman, Regional Central of Expertise, Tirupati

Co-Covenor **Prof. H.P. Tewari**
Allahabad University, Allahabad

Speakers **Dr. B. Meenakumari**
Chairperson, National Biodiversity Authority, Chennai

Dr. S. Subramaniyan
Member, National Biodiversity Authority, Chennai

Dr. V.B. Mathur
Director, Wild Life Institute of India, Dehradun

Plenary Session

Gravitational Waves (Including LIGO & VIRGO)

Convenor

Prof. Bala Iyer

International Centre for Theoretical Sciences
Tata Institute for Fundamental Research, IISc Campus,
Bangalore

Speakers

Dr. P. Ajith

International Centre for Theoretical Sciences
Tata institute of Fundamental Research, Bengaluru

Dr. Sanjit Mitra

IUCAA, Savitribai Phule Pune University Campus, Pune

Prof. C.S. Unnikrishnan

TIFR, Homi Bhabha Road, Mumbai

Plenary Session

Enhancing of Quality Education and Research: Role of Accreditation

Convenor

Prof. D.P. Singh

Director, National Assessment and Accreditation Council,
Bangalore

Co-Convenor

Prof. D. Narayana Rao

General President, ISCA

Speakers

Dr. Virander S. Chauhan

Chairman-EC, NAAC and Member, UGC, New Delhi

Prof. Rajpal S. Sirohi

Chair Professor, Department of Physics, Tezpur University, Tezpur

Prof. S.P. Thyagarajan

Former Vice Chancellor, University of Madras, Chennai

Prof. A.S. Raghubanshi

Institute of Environment and Sustainable Development
Banaras Hindu University (BHU), Varanasi

Prof. I.K. Bhat

Department of Applied Mechanics
Motilal Nehru National Institute of Technology (MNNIT),
Allahabad

Plenary Session

Climate Change/Monsoons

Convenor

Dr. R. Krishnan

Indian Institute of Tropical metrology
Dr. Homi Bhabha Road, Pashan, Pune

Co-Convenor

Dr. Basu
Kolkata Municipal Corporation, Kolkata

Speakers

Prof. R. Ramesh
Physical Research Laboratory
Ahmedabad

Plenary Session

Blue Economy – India’s Efforts

Convenor

Dr. M. Rajeevan
Secretary to the Govt. of India, Ministry of Earth Sciences, New Delhi

Speakers

Dr. M.A. Atmanand
Ex-Director, National Institute of Ocean Technology,
Chennai

Dr. B. Meena Kumari
Deputy Director General (Fisheries), Division of Fisheries, New Delhi

Dr. S. Rajan
Director, National Centre for Antarctic and capcean Research, Ministry
of Earth Science, Government of India

Dr. Satheesh C. Shenoi
Director, Indian National Centre for Ocean Information Services
(INCOIS), Hyderabad, India

Dr. Viswapati Trivdei
Chairman, National Shipping Board, New Delhi, India

Plenary Session

CRISPR – CAS9/Gene Editing

Convenor

Dr. S.R. Rao
Adviser, Department of Biotechnology (DBT),
Ministry of Science & Technology, Government of India

Co-Convenor

Prof. Gangadhar
Bangalore University, Bangalore

Speakers

Dr. Amitabh Mohanty
Senior Research Manager, DuPont Knowledge Center, ICICI,
Knowledge Park, Hyderabad

Prof. K. Veluthambi
School of Biotechnology, Madurai Kamaraj University,
Madurai

Dr. Abhinav Sinha
National Institute of Malaria Research, ICMR, New Delhi

Panel Discussion Members **Dr. P. Chandra Sekhar**
CCMB, Hyderabad

Dr. Sreenivasulu Kurukuti
University of Hyderabad, Hyderabad

Dr. Binay Panda
Bio-IT Centre, Ganit Labs, IBAB, Bangalore

Dr. Dhananjay Tiwary
Department of Biotechnology, New Delhi

Plenary Session

Human Microbiome

Convenor **Dr. Yogesh Shouche**
National Centre for Cell Science, NCCS Complex, Pune

Co-Convenor **Prof. Ashok Kumar Saxena**
Immediate Past General President, ISCA

Speakers **Dr. Vineet Ahuja**
Department of Gastroenterology, All India Institute of
Medical Sciences, New Delhi

Dr. B.S. Ramakrishna
Director & Senior Consultant – medical Gastroenterology
SRM Institute for Medical Science, Chennai

Dr. Sharmila Mande
Innovation Labs, Tata Consultancy Services, Hadpsar, Pune

B.C. Guha Memorial Lecture

Chairman **Dr. Manoj Kumar Chakraborty**
NICED, Kolkata

Plenary Session

Robotics

Convenor **Dr. Subir Kumar Saha**
Naren Gupta Chair Professor
Department of Mechanical Engineering
Indian Institute of Technology Delhi, India

Co-Convenor **Prof. Umakanth**
University of Rajasthan, Jaipur

Speakers **Prof. (Ms.) R. Bhavani Rao**
Director, AMMACHI Labs, Amrita University,
Amritapuri, Vallikavu, Keral

Plenary Session **Cyber Security**

Convenor **Prof. N. Balakrishnan**
Honorary Professor
Department of Aerospace Engineering and Supercomputer
Education and Research Centre Indian Institute of Science,
Bangalore

Co-Convenor **Prof. S.V. Kasmir Raja**
SRM University, Chennai

Speakers **Mr. G.Narendranath**
DDG (Security) Department of Telecommunications (Dot),
New Delhi

Dr. V. Sridhar
SRM Research Institute, Bangalore

Prof. S.V. Raghavan
Chief Architect, NKN of India, Chennai

Plenary Session **Advanced Materials**

Convenor **Prof. B V R Chowdari**
Executive Director, NUS – India Research Initiatives, Office of Deputy
President (Research & Technology), Physics Department, National
University of Singapore

Co-Convenor **Prof. Byrappa**
Mangalore University, Mangalore

Speakers **Prof. Noriyoshi Matsumi**
School of Materials Science,
Japan Advanced Institute of Science and Technology, Japan

Dr. Raman Vedarajan
School of Materials Science, Area of Materials Science,
Advanced Institute of Science and Technology, Japan

Prof. Ashutosh Tiwari
Department of Materials Engineering, University of Uttah, USA

Plenary Session

India-based Neutrino Observatory

Convenor

Prof. Amol Dighe

Department of Theoretical Physics,
Tata Institute of Fundamental Research, Mumbai

Co-Convenor

Prof. Dinesh Rangappa

Visweswaraya Technological University, Chikbalapur

Speakers

Prof. S. Uma Sankar

Department of Physics, IIT Bombay

Prof. Prafulla Kumar Behera

Department of Physics, IIT Madras, Chennai

Dr. B. Satyanarayana

Scientific Officer (H)

Department of High Energy Physics,
Tata institute of Fundamental Research, Mumbai

Prof. D. Indumathi

The Institute of Mathematical Sciences, Chennai

Plenary Session

Solar Energy: Photovoltaic and Thermal

Convenor

Dr. O.S. Sastry

Scientist G/ Adviser & Director General
National Institute of Solar Energy Faridabad, Faridabad

Co-Convenor

Prof. Dinesh Kumar

Kurukshetra University, Kurukshetra

Speakers

Prof. S.B. Kedare

Department of Energy Science and Engineering
Indian Institute of Technology Bombay, Mumbai

Prof. Ayodyanath Tiwari

Head, Laboratory for Thin Films and Photovoltaics
Empa-Swiss Federal Laboratories for Material Science and
Technology, Switzerland

Dr. Ashvini Kumar

Director

Solar Energy Corporation of India Limited
(A Govt. of India Enterprise)
New Delhi

Plenary Session

Off Shore Wind Farms

Convenor

Dr. S. Gomathinayagam

Director General National Institute of Wind Energy (NIWE)
Chennai

Co-Convenor

Dr. Vidya Patni

University of Rajasthan, Jaipur

Speakers

Dr. M.V. Ramana Murty

Group Head/ Scientist- G, National Institute of Ocean
Technology (NIOT), Chennai

Plenary Session

Frontiers in Hemostatis and thrombosis

Convenor

Prof. Satya P. Kunapuli

Director Thrombosis Research Centre Temple University
School of Medicine Philadelphia PA 19140, USA

Co-Convenor

Prof. Gangadhar

General Secretary, ISCA

Speakers

Prof. Pudur Jagadeeswaran

Director Division of Biochemistry and Molecular Biology
LIFE B120 University of North Texas, U.S.A.

Prof. Debabrata Dash

Institute of Medical Sciences Banaras Hindu University, Varanasi

Prof. Ulhas P. Naik

Director, Cardeza Centre for Vascular Biology
Sidney Kimmel Medical College, Thomas Jefferson University, USA

Prof. L. Vijaya Mohan Rao

Professor of Biochemistry
Department of Cellular and Molecular Biology, TX, USA

Plenary Session

Photonics and Meta Materials

Convenor

Prof. Subal Kar

Institute of Radio Physics and Electronics
University of Calcutta, Kolkata

Co-Convenor

Prof. Kanhaiya Lal Srivastava

Jai Narain Vyas University, Rajasthan

Speakers

Prof. S. Anantha Ramakrishna

Dept. of Physics, IIT Kanpur

Prof. Sushil Mujumdar
Department of Nuclear and Atomic Physics,
Tata Institute of Fundamental Research, Mumbai

Plenary Session

S & T in Northeast Region

Convenor

Prof. Gautam Biswas
Director,
Indian Institute of Technology (IIT) Guwahati

Co-Convenor

Prof. Arun Kumar
Manipur University, Imphal

Speakers

Dr. N.C. Talukdar
Director,
Institute of Advanced Study in Science & Technology, Guwahati

Prof. B.K. Tiwari
Professor & Head, Dept. of Environmental Studies
North-Eastern Hill University, Shillong, Meghalaya

ACTIVITIES IN SECTIONS

Deliberations in the 14 sections commenced with the addresses of Sectional Presidents (Annexure-I) followed by Platinum Jubilee Lectures (Annexure-II) in each section. Symposia on special topics (Annexure-III) and a large number of Invited/Special Lectures were organised by the Sectional Presidents which formed an integral part of the technical programme of the 104th Science Congress.

ISCA Young Scientists' Programme

Presentation of papers under ISCA Young Scientists' Programme in the sections were arranged on 4th January, 2017. This year thirteen young scientists received awards under this programme in recognition of their contributions in respective areas of research. ISCA Young Scientist Awards (Certificate and Cash Award of ` 25,000/-) were presented on 7th January 2017 during valedictory programme of 104th Science Congress. Names of those young scientists and titles of their papers are given in Annexure-IV.

ISCA Best Poster Award Programme

To encourage Scientists, the ISCA has instituted Best Poster Awards in each Sections. These Awards carry a sum of ` 5,000/- besides a Certificate of Merit. This year 16 numbers of Best Poster Awards were presented on 7th January 2017 during the valedictory function of 104th Science Congress. Names of those Awardees and titles of their papers are given in Annexure-V.

ISCA ENDOWMENT AWARDS / LECTURES

Name of the Award	Awardee
Asutosh Mookerjee Memorial Award	Dr. Ashok Kumar Saxena Kanpur
C.V.Raman Birth Centenary Award	Prof. K. Byrappa Mangalagangotri
S.K.Mitra Birth Centenary Award	Dr. N. R. Jagannathan New Delhi
Birbal Sahani Birth Centenary Award	Prof. Arun Kumar Imphal
D.S.Kothari Memorial Award	Dr. I Sathyamurthy Chennai
Prof. R.C.Mehrotra Memorial Life Time Achievement Award	Prof. B. P. Chatterjee Kolkata
Jawaharlal Nehru Birth Centenary Awards	Dr Baldev Raj Bangalore
	Prof Om Prakash Kurukshetra

Name of the Award	Awardee
Millennium Plaques of Honour	Prof. Appa Rao Podile Hyderabad
G.P.Chatterjee Memorial Award	Dr M Ramchandra Mohan Bangalore
B C Guha Memorial Lecture	Prof B B Kaliwal Davangere
Professor Hira Lal Chakravarty Memorial Award	Dr. Supriya Tiwari Varanasi
Prof. Archana Sharma Memorial Award	Dr. Jitendra Kumar Thakur New Delhi
Dr. V. Puri Memorial Award	Prof. K.R. Shivanna Bangalore
Dr. B.C. Deb Memorial Award for Soil/ Physical Chemistry	Dr. Biswajit Pal Kolkata
Prof. G.K. Manna Memorial Award	Prof. Mohammed Hafeez Tirupati
Prof. S.S. Katiyar Endowment Lecture	Dr. P. Venkatesu New Delhi
Professor Umakant Sinha Memorial Award	Dr. Sanjeev Das New Delhi
Prof. R.C. Shah Memorial Lecture	Dr. Vinod Kumar Haryana
Prof. (Mrs.) Anima Sen Memorial Lecture	Prof. Sibnath Deb Puducherry
Prof. William Dixon West Memorial Award	Prof. J.P. Shrivastava Delhi



PROF. D. NARAYANA RAO
GENERAL PRESIDENT OF ISCA
104TH INDIAN SCIENCE CONGRESS
TIRUPATI

Prof. D. Narayana Rao, a scientist of repute is known for his scientific contributions in the field of Atmospheric Sciences. He has worked as Lecturer, Reader and Professor in S.V. University, Tirupati during the period 1975-2002. He has carried out several major research projects sponsored by Science Department and Agencies of Govt. of India like DST, CSIR, MoES (Formerly DOD), MIT (Formerly DOE), ISRO, and UGC. He was later on appointed by the Government of India as Director, National Atmospheric Research Laboratory (NARL), Department of Space. Prof. Narayana Rao has greatly contributed in making NARL a world-class Centre of Excellence for research in frontier areas of Atmospheric Science and Radar Technology. He had the unique privilege of sensitizing and motivating the young students of SRM University, Chennai in designing, developing and fabricating a Nano Satellite being launched by ISRO in October 2011.

Prof. Rao has published more than 100 research papers in highly reputed international journals. 27 students were awarded their Ph.D degrees under his research supervision. In recognition of his scientific contributions, he has received several awards including Sir. C.V. Raman award for outstanding contribution to Physical Sciences awarded by UGC, K.R. Ramanathan award for outstanding contributions to Atmospheric Sciences, Andhra Pradesh Scientist Award for outstanding contributions to Physical Sciences, Astronautical Society of India (ASI) award for excellence in the field of Space Science and Applications, presented by the Hon'ble Prime Minister of India in the year 1996. He had the privilege of receiving the S.S. Bhatnagar Memorial Award (ISCA) from the Hon'ble Prime Minister of India in the year 2011.

Prof. Rao is a Fellow of National Academy of Sciences, India and a Fellow and Member of the Governing Council of IETE and member of several Scientific and Technical Committees at national and international levels. He was the President of Andhra Pradesh Akademi of Sciences during 2007-2010. He has visited a number of countries including USA, Canada, Peru, U.K. France, Italy, Singapore, Hong Kong, Sri Lanka, China, Taiwan, Australia and Japan on various academic and scientific assignments and for international scientific collaboration. He has made significant contributions through international collaboration in the field of Atmospheric Sciences to monitor regional and global Climate Variability.

Prof. Rao was the Project Director of SRMSAT, a Nano Satellite designed and developed by the students of SRM University. He took the complete responsibility for the design and development of SRMSAT. The satellite was launched from SHAR Centre, Sriharikota in October 2011. He had the opportunity of serving the Indian Science Congress Association (ISCA) as Local Secretary for the 98th Indian Science Congress held at SRM University, Chennai in January 2011.



Shri Narendra Modi, Hon'ble Prime Minister of India delivering inaugural speech



Dr. Ashok Kumar Saxena receiving highest award of ISCA - Ashutosh Mookerjee Memorial Award by Shri Narendra Modi, Hon'ble Prime Minister of India



Shri Narendra Modi, Hon'ble Prime Minister of India felicitating Nobel Laureate.



Shri Narendra Modi, Hon'ble Prime Minister of India and Shri Chandrababu Naidu, Chief Minister of Andhra Pradesh at Science Exhibition.



Shri Y. S. Chowdary, Hon'ble Union Minister of State for Science & Technology and Earth Sciences delivering speech at Valedictory Session.



Dignitaries on the Dias during inauguration of Women's Science Congress.



Inauguration of Children Science Congress by Dr. Takaki Kajita, Nobel Laureate.



Dignitaries on the Dias during Valedictory Session.

104TH INDIAN SCIENCE CONGRESS
S V UNIVERSITY, TIRUPATI
3-7 JANUARY, 2017

RECOMMENDATIONS OF SECTIONAL COMMITTEES
(AS RECEIVED FROM SECTIONAL PRESIDENTS)

AGRICULTURE AND FORESTRY SCIENCES

- Research on climate change in relation to adaptation and mitigation for a climate smart agriculture should be strengthened in an interdisciplinary manner.
- Assessment of natural resources with modern tools and techniques (e.g., geoinformatics, remote-sensing, drone, simulation modelling, etc.) at farm level and their integration with socio-economic scenario for sustainable land use planning and management.
- Promotion of diversified agriculture and popularization of non-timber forest products (NFTP) through adoption of agro-forestry and short duration energy plantations to ensure livelihood security and women empowerment in tribal areas need to be encouraged.
- Enhancing nutrient and water use efficiency in agro-ecosystems through the use of existing traditional and modern techniques like nano-formulation, fertigation, etc. in irrigated and rain-fed farming systems.
- Research on conservation agriculture in relation to soil processes involving nutrient fluxes and flows, organic recycling in relation to organic matter formation and its stability, nutrient availability and soil quality for enhanced productivity and environmental security should be emphasized.
- Newer formulations of mixed bio-fertilizers exploiting soil metagenomics and devising effective delivery systems to farmers' fields is needed.
- Research on rapid waste recycling and use of organic manures such as FYM, compost, vermicompost, etc. needs to be promoted. Standardization of organic manures, their preparation methods and quality criteria needs to be established.
- National networking arrangement to coordinate the studies of fertilizer use and soil health in different agro-ecological regions for efficient inputs use, soil health and environment needs to be developed.
- Strengthening public-private partnership and farmers' linkages with research institutes should be expedited for enhancing agro-technology delivery.

ANIMAL, VETERINARY AND FISHERY SCIENCES

- Keeping in view the focal theme of Indian Science Congress (S &T for National Development) and the topic of symposia for the Section of Animal, Veterinary and Fishery Sciences, following recommendations have been made.
- Basic Biology should be made integral part of undergraduate and Post-graduate studies in Biotechnology, Microbiology, Bioinformatics and modern disciplines.
- The assemblage of species with we share the planet represents a vast untapped genetics library, with undiscovered pharmaceutical and beneficial substances. So programme needed to be initiated for the exploration of other less known potential varieties of life forms with a view to ensure rural livelihood, food health and financial security.
- Documentation of traditional technical knowledge (TTK) and indigenous technology, its revival and strengthening for sustainable development in the area of bioresources and adaptation to climate change should be made.
- Bioresources are the wonderful gift of nature to the mankind whose sustainability can be effectively linked to rural livelihood and economic development, so science education should aim at attracting students for proper management and sustainable utilization of bioresources.
- Programme needs to be initiated for exploration of other less known varieties of life forms with the view to ensure livelihood and food security.
- Application of molecular tools for wildlife conservation, especially of endangered species may be given greater importance.
- Multivoltine race of silkworm (*Bombyx mori*) should be tested under different agro-climatic zones of India for proper evaluation of improvement efficiency.
- Bio-economic modeling of different ponds and reservoir management with view to increase fish production should be carried out.
- Promotion of public awareness on biodiversity conservation role of individuals for minimizing ecological footprint and maintaining health and hygiene in the vicinity should be made.
- Public-private partnership (PPP) should be encouraged to solve the environmental problems and conservation and proper exploitation of all such life forms, which ensure food, health and livelihood.
- Public participation in decision-making should be ensured and integration of environmental, economic and social sustainability with food, health and livelihood security of the people.
- Various disease problems (in aquaculture and animal's husbandry etc.) and their management can be worked out in details.

- Launching of massive training programme to link economically important bioresources such as silkworm, honey bee, aquaculture, vermiculture, pearl culture livestock, etc. with a view to promote/ accelerate more rural livelihood should be intensively initiated.
- Since biotechnology is now playing an important tool for food, health and livelihood security, short term training should be initiated in rural area for better production of eatables which will contribute in increasing National GDP from this sector.
- Students with M.Sc. Degree in Zoology (with specialization in Fish & Fisheries) are neglected and denied appointment in fisheries and other related departments which is a great injustice to them. UGC should take strong step to protect the interest of such students.

ANTHROPOLOGICAL AND BEHAVIOURAL SCIENCES (INCLUDING ARCHAEOLOGY, PSYCHOLOGY, EDUCATION AND MILITARY SCIENCES)

- More research works should be carried out in the field of reproductive health of women living in rural and tribal areas of India. Because reproductive health is an important component of general health and is a prerequisite for social, economic and human development. The highest attainable level of health is not only a fundamental human right for all, it is also a social and economic imperative because human energy and creativity are the driving forces of development.
- ‘Population Aging’ indeed has become a great challenge for the humanity in the 21st century. It is a demographic imperative which has socioeconomic and political consequences across the globe. There should be a collective approach in dealing with this phenomenon to secure our lives and also of our future generation in last years.
- Scientists from behavioral sciences discussed about the authentication of the MNREGA implementation through rapid field survey.
- There should be more research in the field of Development Psychology since this will enhance the skill of people in problem solving, moral understanding, conceptual understanding, language acquisition, social, personality emotional development, self concept and identity formation. It can be considered as an alternative approach to a single focus on economic growth, and focused more on social justice, as a way of understanding progress.
- Scholars also found it imperative to research in studying ethnic variability (both biological and cultural) and its reasons. This is will help in bringing national harmony, social justice and peace.

EARTH SYSTEM SCIENCES

- Oceanic resource need to strength and Smart cities employs.
- Natural hazards need to be concentrated.
- Earth System academics.
- Geo ethics need to be taken care.
- More & more power need to established (Nuclear Power) nuclear waste should be taken care.
- Space technology need to be taken care in geo spatial maps.
- Linkage with societal needs.
- Mineral resource need to be studies –Topping the benefits.
- Natural hazards need to be investigated: sustainable development.
- Dedicated section on Remote Sensing Application.

ENGINEERING SCIENCES

- Fresh graduate engineers/ scientists should be motivated for R & D work as well as for teaching faculty.
- There should be good interactive mechanism between the academia and the industry to minimize unemployment for the passing out students.
- Good number of faculties along with infrastructural facilities should be provided to the engineering colleges and universities in order to upgrade the standard of education.
- Discipline-wise engineering curriculum should be updated periodically to meet the future challenges.
- Training courses for the engineers should be improved/ upgraded, so that they can adapt themselves to emerging technologies.
- Faculty members should have good industrial exposure in order to improve the quality of education as well as to create job opportunities for the fresh engineers/ scientists.
- Engineers and scientists should work in a harmony, so that innovation by the scientists can be fruitfully assimilated and utilized by the engineers to make it useful to the society at large.
- Microzoning of Metropolitan cities should be taken up with priority. Engineers and scientists should come forward to sort out critical issues in mitigating the disaster due to earthquake.

- Govt. of India stressed on infrastructure development. We must take up the critical issues, safety and security.

ENVIRONMENTAL SCIENCES

- National Survey on Biodiversity of Himalayan Region and Western Ghats (including- microphysics. BGA) with special emphasis on indigenous knowledge based natural resources should be undertaken to decipher the unknown and un-recorded natural resources.
- An all India co-ordinated program should be undertaken to assess and monitor environmental pollution (inorganic and organic) to mitigate the pollution and also to provide a better livelihood.

INFORMATION AND COMMUNICATION SCIENCE & TECHNOLOGY (INCLUDING COMPUTER SCIENCES)

- Proliferation of different technologies, combined with ever-increasing complexity of software and more advanced business, economic, financial models has led to a wider complex and networked issues. Scientific discoveries and innovations produce new knowledge bases for development of new products, solutions and services for transforming lives of masses and new ways of living using new technologies. These should continue unabated.
- In order to have true digital society, suitable for the country like ours, creation, integration and adoption of new culture base is to be formed.
- Computer and IT education including its history and ramifications, must form a part of course curricula in universities, colleges and other courses offered from time to time. Exhaustive databases including events, personalia etc. must be prepared. Professional Societies like ISCA, Computer Society of India (CSI), NassCOM, IETE etc. along with major institutions, universities etc. also NIELIT, at all levels must be involved in this process to be supported by governments as part of nationwide project.
- The need for further data acquisition in some specified areas like medicine- both diagnosis, disease control and cure, also healthcare, should be well funded, and subsequently disseminated and analysed for the betterment of the society, Rigorous analysis and critical attention need to be given to medical electronics taking into account its affordability to a large segment of consumers.
- Cognitive Computing, Artificial intelligence, archival, searching, Predictive Analytics and Prescriptive Analytics in ever-involving Big data and Internet to Things need to be studied and exercised with well funded projects on a continuing basis.
- Smart villages, like smart cities, are the order of the day. Special and appropriate infrastructural design and application long with skilled manpower must be identified throughout the country at different levels, particularly among the next generations.

- IT should act as a facilitator and a catalyst, as well to provided 'Education for ALL' in the coming decade. Future Citizen driven education need to be introduced for the transformation from the present Academy driven education.
- Decision-making with the use of computers, mobiles, televisions considering all networks with popular social networking sites should be encouraged and acted upon. Legislation and security mechanisms to this effect, particularly in connectivity, must be strengthened.

MATERIALS SCIENCE

- Development of advanced polymeric/elastomeric/polymer matrix composite materials for Defence/ Aeronautical applications.
- Nano materials and devices for green and clean energy applications.
- Polymeric Hydrigel materials for Biomedical applications.
- Sensor materials for detection of toxic chemicals.
- Chalcogenide and chalcopyrites for optoelectronic applications.

MATHEMATICAL SCIENCES (INCLUDING STATISTICS)

- A Special Symposium entitled "Role of Mathematics in the National Development" was organized on 04th January, 2017 to address the theme of ISCA Conference 2017. It was addressed by three Eminent Indian Mathematicians, who has contributed immensely initiating mathematics education of various levels. The meeting was attended by more than 100 mathematicians from all over the country. It also had a very live discussion session. It is strongly recommended that mathematics curriculum should be reengineered at all levels including School and College level, keeping in mind the unfolding Science and Technology revolution across the globe. It was also recommended that a very well defined methodology, be in place to impart basic mathematics education to every citizen of the country. Also, sufficient researches in mathematics and related areas in Indian Universities and Research Institutes. This should be in addition to promotional research avenues addressing applications of Mathematics in various disciplines such as Defense Studies, Biological Studies, Environmental Studies and Social Sciences Studies.

MEDICAL SCIENCES (INCLUDING PHYSIOLOGY)

- Physiological Survey of India needs to be set up to promote the subject of Physiology.
- More work needs to be done to fast different natural pro.

NEW BIOLOGY (INCLUDING BIOCHEMISTRY, BIOPHYSICS & MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

- The new Biology domain knowledge is rapidly increasing. The students for both Undergraduate and Post Graduate courses in the related area must be exposed to a dynamic curriculum. More stress should be given to Practical exposure and training for the students. The DST/DBT/CSIR supported funds must reach to the remote area colleges and Universities which will help to build up the Human resources in this area.
- The research focus should be given to both basic and applied research.
- New approaches to be implemented for border less education and collaborative research.
- The basic training should nurture more inquisitive minds and Innovation should be encouraged more.
- Research in the area of Chemical Biology, Chemical genetics to be encouraged to facilitate Drug discovery.
- Research related to health and food production should be emphasized to help the nation come out of malnutrition, poverty and challenges to keep the biodiversity undisturbed

PHYSICAL SCIENCES

- Immediate and serious emphasis should be given to Physics Education/ Teaching at Undergraduate and Postgraduate levels in Universities particularly State Universities situated in remote areas.
- Intensive research is required for developing materials for electro-optic applications.
- Development of nanomaterials suitable for display, imaging and lightening applications.
- Graphene quantum dot conducting polymer for opto-electronic and photovoltaic applications.
- Applications of electrochemical and photo-catalytic technology should be expanded for mineralisation of various environmental organic polymers.
- The need of hour is the quality and speedy research in various disciplines of Physics. Proper attention must be given to multidisciplinary research.
- In view of the importance of liquid crystals both in technological developments and also in chemical/ biological/ medical sciences; proper attention be paid to this gray area.

PLANT SCIENCES

- New alternative sources of phytomedicines from preferable so far untouched plants, especially the weeds and lower plants (Algae, Bryophytes and Pteridophytes) should be explored and multiplied.
- Bioprospecting of the medicinal compounds or compounds of commercial importance (pharmaceutical, nutraceutical, industrial enzymes, dyes, etc.) should be carefully carried out from screened potential sources or through use of synthetic biology.
- Development of biofertilizers and biocontrol agents for improvement of crops.
- Screening of plants and phytoplanktons for C-sequestration, biofuel development and reducing carbon credits.
- Phytoremediation of heavy metal pollution through phytomining/ phytoextraction/ phytostabilization/ volatalization and their suitable disposal or bacterial degradation.
- Development and popularization of bioplastics.
- All the new compounds, plants and technology should be entered in the digital database of CSIR to protect our traditional, cultivated or bioprospected herbal wealth.

OTHER ACTIVITIES

ISCA CHAPTERS

The Association started organizing popular science lectures in different centers in India from 1962-63. The scheme envisages constructive work for the popularization and advancement of science throughout the year. Till 1985-86 these lectures were delivered at seventeen centres spread over the country. However, this was restructured with the formation of Regional Chapters from 1986-1987.

One of the major objectives of the ISCA is to inculcate the Scientific temper among the people and to encourage young scientists to grow up steadily in this direction involving them in the programmes relevant to fundamental, experimental and operational activities. With these objectives in view, ISCA started Chapters from 1986-87 in different places in India. At present twenty four ISCA Chapters are at Allahabad, Amravati, Bangalore, Baroda, Bhopal, Bhubaneswar, Cochin, Chennai, Coimbatore, Delhi, Haridwar, Hyderabad, Imphal, Jaipur, Jammu, Kanpur, Kolkata, Kurukshetra, Patiala, Patna, Pondicherry, Sagar, Sri Nagar, Tirupati.

Highlights of ISCA Chapter Activities (2016-2017)

Focal theme ‘Science & Technology for National Development’

ALLAHABAD CHAPTER

Convener : Dr. I.R. Siddiqui

Organized a three day National Seminar on Focal theme between 11th-13th February, 2017. On the Science Day i.e. 28th February 2017 was celebrated on the theme “Science and Technology for especially abled person” in the form of debate by UG and PG students and invited talks. On the 26th March 2017, a science exhibition including poster presentation, scientific model presentation and talks by local scientists to popularize science and technology was organized at MRS school and college, Patel Nagar, Jhansi, Allahabad.

BANGALORE CHAPTER

Convener : Dr. S. Ramakrishna

Organized three day “National Conference on Science and Technology for National Development – Health, environment and agriculture” in association with Department of Biotechnology, Jain University. One keynote address, six plenary lectures, 34 research papers were presented and 63 posters, Chaired by eminent personalities of life sciences. Organized two day ”International conference on Science and Technology for National Development- Social, mobile, analytics and cloud” in association with Adarsh institute of Management and Information Technology. Received 144 pull papers and contributed more than 200 authors 60 research papers were presented 64 posters. Organised one day Lecture work shop on “Science and Society”, includes ignatian scientific lectures. Organized one day symposium to commemorate National science Day on 28th February 2017, includes invited lectures.

BARODA CHAPTER

Convener : Prof. (Mrs.) G. Sandhya Kiran

Conducted two workshops, one seminar, two competitions and a lecture in academic year 2016-2017. Workshop on Hands on training on “GC and HPLC” was organized for training the research students in these important analytical techniques. Chapter successfully celebrated “World Space Week – 2016” and organized national Seminar on “Remote Sensing: Enabling our Future” as a part of the space week. ISCA-(BC) also organized Rangoli Competition in which students of B.Sc. and M.Sc. Programs of Botany Department participated and prepared beautiful rangolis. Science Conclave-2017 was organized by the chapter to inspire young researchers for doing interdisciplinary research. Invited lecture On “Orientation of Naturopathy and Yoga for complete health improvement by promoting women health” and elocution Competition for students was organized by the chapter on 8th March, i.e. international women’s day. Workshop on “Exposure to Scientific Vocational Technology & A tour to Botanical Garden for Differently Abled Persons” was organized on National Science day-2017 for encouraging differently abled students.

BHUBANESWAR CHAPTER

Convener : Dr. Kajal Parashar

Organized a national seminar on Focal Theme on 12th & 13th December 2016 in collaboration with KIIT University. Director Space Application center, former Vice Chancellor of Jadavpur University and present vice-chancellor of KIIT University and Utkal University. More than three hundred participants were presented their scientific works in the two days seminar. In collaboration with KIIT University celebrated “National Science Day” on 28th February 2017 on the theme “Science & Technology for Specially Abled Persons”. The event was graced by Prof. Achyuta Samanta, Founder KIIT & KISS and General President ISCA, Padma Shree Dr. Subrata Acharya Pro Chancellor KIIT University, Prof. Christopher. W. Bielawski, Professor, Department of Chemistry, Ulsan National Institute of Science and Technology, South Korea, Prof. Kumar Devadutta Associate Professor, School of Computer Sciences and Engineering, KIIT University. On this occasion seven budding innovative students belonging to different schools of Odisha who have been awarded with Dr APJ Kalam Ignite Award, were felicitated by the dignitaries.

CHENNAI CHAPTER

Convener : Prof. C. Muthamizhchelvan

Conducted 9 one-day workshops/seminars and 1 three-days national conference on Science & Development. Conventional roadblocks of Human fundamental rights (HFR) such as gender equity issues, stereotypes, lack of mentoring, socio-cultural differences (immoral tints), health/sanitation issues, inherent barriers along with ethical/moral responsibilities of woma(e)n at workplaces were significantly addressed through one-day Women Empowerment Program. As a part of the focal theme, the Chennai chapter has been devoted to conduct special programs such as Hindi essay competition for the school children and nominated two science communicators through its revival of indigenous development and the latest developments of sustainable aquaculture and circular economy. With a special focus on rural education to the school children (named as rural education achievement program – REAP); the three day conference

attracted the large number of practitioners and witnessed various thematic lectures, invited lectures, air-rocketry (space) workshop, science mobile express activities with hands-on-learning demonstration, digitizing Google maps, and so on. The Science-of Rocketry was the special attention. The flavour of collaborated events with NGO based environment camp known as (Art-on-Green) for the impacts of conventional and advanced medical diagnoses, the raising awareness of iron-deficiency especially to the rural girls, the prevalence of Geoinformatics (Geo-positional Informational Systems) for the cleaner environments. The popularization of scientific benefits to the Specially Abled persons was significantly emphasized through the inspired bionic systems.

COCHIN CHAPTER

Convener : Prof. Dr. K.V. Jayachandran

International Conferences on Focal theme, held at KUFOS on 25th and 27th October, 2016; “Science and Technology for National Development – Advances in Crustacean Research” at University of Kerala on 20/09/2016; “Taxonomy of Crustacea” during 21st to 23rd /09/2016 at University of Kerala, Workshop on “Quality, food safety and productivity”, National Programmes: Interactive seminar on “Promotion of rural aquaculture for improving the protein security and livelihood in India with special reference to Kerala” on 4/07/2016 at KUFOS; Panel discussion and interactive seminar on “Linking Rivers, Barrages and Fish Migration” on Fish Migration Day on 21/05/2016 at KUFOS; Awareness programme on Kandal (Mangrove) along with Mangrove Mahotsavon 16/11/2016 at KUFOS; One day workshop on “Capacity building on crustacean taxonomist” on 18/01/2017 at FMN College; Science awareness programme at University College on 20/01/2017; at Govt. Higher Secondary School, Trichur District, Kerala State on 30/01/2017; at MSM College, Kayamkulam, on 02/02/2017; at SEED, Cherthala for school children, on 26/02/2017; Awareness programme for School children at Govt. Higher secondary school, Kadamakkudy, Ernakulam District, on 03/03/2017; at Govt. Higher Secondary School, Njarakkal, Ernakulam District, 29/03/2017; at SEED office, Cherthala for farmers on 19/03/2017. Awareness class on differently abled people as part of National Science Day celebrations at UC College, at Alappuzha on 12/03/2017 Science popularization programme at Sree Narayana College, Cherthala on “Climate change and Environment” on 20/03/2017; Selected two candidates for Science Communicator’s meet ISC at Tirupati during 3-7/01/2017.

COIMBATORE CHAPTER

Convener : Smt. C.A. Vasuki

‘International Yoga Day’ was celebrated on 21.06.2017 in Kongunadu Arts and Science College campus with the participation of 452 members, Free medical camp was organized jointly with Kovi Medical Centre Hospitals for tribal people on 31.07.2016 at Chadivayal tribal hamlet. National level Symposium on ‘Green Ecology for Environmental Security’ on 6.10.2016, Conference on ‘Current scenario in pure and applied mathematics’ on 22nd & 23rd December, 2016, workshop on ‘Research in Basic Science’ on 15.02.2017 and special lecture on ‘Managing anaemia and malnutrition through home remedies’ on 21.12.2016 were organized, Hindi essay writing competition was conducted on 15.10.2016 on the focal theme, National Science Day was celebrated by conducting ‘Drawing competition’ on 14.02.2017, ‘Quiz competition’ on 16.02.2017 and seminar on ‘Scientific Advancement in Modern Medicine’ and exhibition on 28th Feb, 1st and 2nd March, 2017 in Kongunadu Arts and Science College, Four, one day seminars viz., on ‘Career Guidance in Training on Youth Leadership and Community Development, ‘Green chemistry

for sustainable development in India, Opportunities and Challenges in Biological Sciences’, and ‘Advanced developments in spectroscopic techniques and its applications’ were conducted, Eminent experts/scientists in the respective field served as resource persons in various above mentioned programme.

DELHI CHAPTER

Convener : Dr. Salil Gupta

Engineers Day was celebrated with Prof. PB Sharma, VC Amity University, Gurgaon, the chief guest read the keynote address on Engineers’ Day organized for ISCA members. On National Science Day Poster competition and a series lectures by scientists on Persons with Disability was organized together with Hansraj College and NCWEB. ISCA gave away prizes to winning entries. Awareness campaigns include Cancer screening awareness camp with Race to rein in Cancer and ROKO NGOs. 50+ ladies registered; Health and Hygiene and also anti-tobacco awareness campaign among underprivileged school children in form of lectures and poster competitions. ISCA gave away prizes to winning entries; Pollution Control and Air Quality Measurement awareness campaign that culminated in an inter-school poster, AV clips, skits etc. competition. ISCA gave prizes to winning schools.

HARIDWAR CHAPTER

Convener : Prof. (Dr.) Rajneesh Dutt Kaushik

The International Yaga day was celebrated by ISCA: Haridwar Chapter in collaboration with the Department of Yoga, Gurukul Kangri University, Haridwar, on 21st June, 2016 from 6.45 a.m. onwards. About 300 persons participated. Hindi Essay writing competition was held in the Department of Chemistry, Gurukula Kangri Vishwavidyalaya Haridwar on 25.09.2016 at 11:00 am. Two candidates from both category I and II were selected. Science communicators’ selection was made on 14 October, 2017, 2 pm onwards at Department of Chemistry, Gurukul kangri University, Haridwar. Two candidates were selected and their names were forwarded to ISCA headquarters. The Chapter took care of the toilet, bathroom and other works done in the village adopted last year. National conference was organized on November 20-22, 2016. Poster exhibition on the theme “Science & Technology for Specially Abled Persons” on the occasion of National Science Day was organized at Faculty of Engineering & Technology, Gurukul Kangri University, Haridwar(Uttarakhand) on February 28, 2017 from 11:00 am onwards. A total of 11 invited scientific talks were organized for propagation of the cause of science during this year.

JAIPUR CHAPTER

Convener : Dr. Payal Lodha

Celebrated Earth Day, National Education Day, World Environment Day, International Literacy Day, World Health Day, Student Day, Women’s Day, National Science Day. Organised National Conference on “Environment Challenges, Human Health and Society “ 29th-30th August, 2016 at University of Rajasthan, Jaipur, National Seminar on Focal Theme 16th – 17th September, 2016 at University of Rajasthan, Jaipur. International Conference on “Environment Awareness Protection & New Challenges” 3rd – 4th Feb, 2017 at St. Wilfred’s P.G. College, Jaipur, Rajasthan. Science Awareness programme on Interactive Session on General health issues, current affairs related to School science in India and World, and Quiz competition in Poddar Senior Secondary School, Bapu Nagar, Jaipur, Lecture related to pollution, environment and health held at Government schools in various parts of Jaipur.

KANPUR CHAPTER

Convener : Dr.(Mrs.) Vijay Laxmi Saxena

Organised Intercollegiate Hindi essay Competition in the Dept. of Zoology on the focal theme, where Seven schools and six post graduate colleges participated in the Event, Quiz competition was held on 22. 09. 2016 at Sri KailashNath Balika Vidyalaya Inter College, where eight inter colleges participated in the quiz competition, The Poster Comp. on the theme was held on 30 .09.2016 in which large number of students from various degree and post graduate colleges participated. Science Day was celebrated on 28th February, 2017 at Kumari Udyan Girls/ Inter College, Ashok Nagar, Kanpur. Where Eight colleges participated Inter Collegiate competitions., organized two day Seminar from 29 to 30.09.2016 in Dayanand Brajendra Swarup College, (DBS) Kanpur. Former Vice Chancellor S.V. University and Former General President ISCA Prof. Ramamurthi, presided the session. Chief Guest Mrs.Kumkum Swarup inaugurated the programme and Guest of Honor Mr.Gauravendra Swarup released the Souvenir Mr. Manvendra Swarup, Guest of Honor, addressed. Immediate past General President of ISCA Dr. Ashok K.Saxena, Dr. Manoj K Chakravorti & Dr. Nibedita Chakravorti EC Member ISCA & Prof. Santosh Kumar, Former Vice Chancellor Barkatullah University, .Mr.Mahendra Pati, GM Telephones,,Kanpur. Prof. Gangadhar, General Secretary Membership Affairs Prof Ranjit Verma, Treasurer ISCA, Prof. H.P. Tiwari. Former General Secretary, Prof. Arun Kumar Former General Secretary (Scientific Activities) Prof. Ramakrishna, (Banglore University and EC member of ISCA) Dr. Arun K. Pandey AES ISCA were present. Prizes were given to winners of different competitions held.

KOLKATA CHAPTER

Convener : Prof. Ananga Mohan Chandra

World environment Day was observed on June 7, 2016 where Prof Goutam Paul, Dean Faculty of Science, Kalyani University delivered a lecture on the recent aspects of the environmental problems. The World Yoga day was observed on 22nd June 2016 at the Auditorium of ISCA (Hqrs). The speaker was Dr Udaysankar Ray, Scientist (Retired), Defense Institute of Physiology and Allied Science, DRDO, Delhi. Doctor's Day was observed on July 1, 2016 at the Auditorium of the ISCA (Hqrs). Organised one day seminar in a rural Schools on Aug 26, 2016 at Paniparul Mukteswar High School (H.S.), Purba Medinipur on the focal theme and in another rural college on March 11, 2017 at Ramananda College, Bishnupur, Bankura. National Scientific seminar on Nov 10-12, 2016 at the Conference Hall of RJ Resort at Darjeeling and at the Netaji Institute For Asian Studies, Kurseong, on the focal theme. The seminar was attended by many dignitaries of ISCA, such as Dr M K Chakraborty, Former General Secretary, ISCA, Dr Nibedita Chakraborty, Member, Executive Committee, and others. Prof AM Chandra, welcomed. Prof R. Ramamurthy, Past General president of ISCA presided over the seminar. Prof H P Tiwari, Former General Secretary, ISCA, Dr. AK Saxena, Immediate Past General President , ISCA and Prof Gangadathar, General Secretary (membership Affairs), ISCA , Dr Arun Kumar, Former General Secretary, ISCA delivered speech on the focal theme. Besides, Science Communicator's meet was organised on 21st Nov, 2016 at Dept. of Physiology, University of Calcutta., Felicitation to Dr Monilal Bhaumik, an eminent Physicist of USA on 23rd Dec, 2016 and National Science Day on 28th February, 2017 jointly with Lady Brabourne College.

KURUKSHETRA CHAPTER

Convener : Prof. Ashok Aggarwal

\Under the aegis of Prime Minister Swaachh Bharat Abhhiyan, two toilets one for ladies and one for Gents got constructed by ISCA, were inaugurated by Vice Chancellor, Kurukshetra University, and Vice Chancellor YMCA, Faridabad. Organized various Science exhibitions, Quiz completions and popular

lectures on Science awareness among school students of rural area of Haryana. Organized one day National Conference on , “Chemical and Environmental Science: Emerging Dimensions and Challenges Ahead”, On National Science Day, Jawaharlal Nehru Centenary lecture was delivered by Dr. O.P.Arora and plaque was presented by Prof P. P. Mathur, General Secretary, Scientific Activities(ISCA). On Line Quiz completion, declamation contest for Masters students and Science awareness programme for differently abled children were organized.

PATIALA CHAPTER

Convener : Prof. (Dr.) Tarlok Singh

Under the stewardship of the Convenor (Patiala-Chapter), a team of experts surveyed the cancer and fluoresces prone belt of Punjab comprising districts – Bhatinda, Mansa and Sangrur and found that the uranium laidden underground water and irrational use of pesticides are playing havoc with the human life. Though NGO’s and the Govt. agencies are doing their best but due to the size of the population, all efforts fall short of the target. Of the Scientific Organized National Yoga Day at University Campus and Expo-Science Exhibition at DAV Public school, Patiala as well as Gobindgarh Public School, Mandi Gobindgarh. For rural school children, competitions were arranged to sharpen their skill and love for the science and environment. Large number of school students enthusiastically participated and won merit certificates and prizes. Celebrated the National Science Day with the special children at a school for handicapped, located at village Saifdipur. Deaf and dumb students demonstrated their skill in performing a scientific skit. Blind students came forward to make speeches on top Indian Scientists and some students showed their expertise in painting as well.

PATNA CHAPTER

Convener : Dr. Sheo Satya Prakash

The Hindi Essay competition on the focal theme “Science and Technology for National Development” was organized on 28th September 2016 and 3rd October 2016 at R.P.S. Girls School Patna and Ganga Devi Mahila college Patna respectively. Altogether 65 candidates participated. National Seminar was held on 16 to 18th December 2016 at I.G.S.C., Planetarium and Indian Institute of Business Management, Patna. The chief guest was Immediate General President Dr. Ashok Kumar Saxena. Prof. R.Ramamurti, Former General President presided the function. The other dignitaries addressed the seminar were Dr. VL Saxena, Dr. M K.Chakrabarti, Prof. M.K.Jyoti, Prof. Dhyanendra Kumar, Prof. J.S.Tara and Dr. Kuldeep Sharma. 20 research papers were presented. All the essay’s participants were awarded certificates and medals. National Seminar on the topic “Environmental Pollution: Causes and Remedies” was held at Ramesh Jha Mahila College, Saharsa on 10th & 11th February. The National Science Day was celebrated on 28th February 2017 at P.G.Department of Chemistry, A.N.College, Patna. On 30th March 2017, one day National Seminar on the topic “Role of Women Scientist in National Development” was organized by the chapter at P.G. Department of Chemistry, T.M.Bhagalpur University, Bhagalpur. The chief guest highlighted the importance of Women Scientists in National Development. The President elect (ISCA 2019 Session). Dr. Manoj K. Chakravorti, Dr V LSaxena, Dr. Nivedita Chakrabarti, Prof. Gangadhar, Prof. R K. Verma also addressed the seminar. Dr.S S Prakash, proposed the vote of thanks. 10 Research papers was also presented on the occasion.

PONDICHERRY CHAPTER

Convener : Dr. V. Amouda

Organised with Pondicherry University (PU) one day National symposium on "Science and Technology for National Development" on Feb 27, 2017 for UG and PG students (200 students) from in and around Pondicherry. The National Symposium comprises of 7 lectures by eminent professors on different topics of science discipline to educate and empower young minds of the Nation. Posters were invited from different parts of the country. Around 37 posters, best posters were selected for presentation and prize. Observed National Science day on "Science and Technology for Specially Abled Persons", on Feb 28, 2017 where around 220 students from 27 schools and 87 Differently Abled Children participated. One lecture on popularizing Science along with various competitions like quiz, skit and elocution for the school students were conducted and distributed the prize to encourage the students for their hard work and contributions.

SAGAR CHAPTER

Convener : Dr. Subodh Kumar Jain

Observed June 21, 2016, World Yoga Day; September 23 – 24, 2016 National seminar on "Science and Technology for National Development" where Prof. Ashok Kumar Saxena (Former GP, ISCA), Prof. Vijay Laxmi Saxena, Prof Santosh Kumar, and Prof. R.P.Tiwari (VC, DHSGU, Sagar) delivered speech. As resource persons Prof. Ishan Patro (Gwalior), Prof. Anjana Sharma (Jabalpur), Prof. Satyawati Mishra (IIT, Delhi), delivered lectures. Organised on February 18, 2017 a lecture workshop on "Stress: Concept and Real Life". February 22, 2017 in a lecture workshop on "Stress and Behaviour" organised February 28, 2017, National Science day on "Science and Technology for Specially Abled Persons" organised. March 02, 2017 a lecture on "Advancements in Biotechnology" by Prof. Krishna Mishra (Allahabad) organized.

TIRUPATI CHAPTER

Convener : Prof. R. Ramamurthi

Special lectures were conducted by experts for the benefit of college students. Dr. N. Chandrayudu of Geography department of S.V. University spoke on Remote sensing technology for Resource Management in Rajampet degree college on 26 August 2016. On March 8th 2017 Dr. Poola Kesavulu spoke on Statistics for National Development in Emerald Degree college Tirupati. The following important days were observed and performed befittingly: World Earth Day, World Environment Day, World Forest Day, World Water Day, World Health Day, International Yoga Day and programmes relating to Youth for Agriculture.

CELEBRATION OF HINDI WEEK CEREMONY IN THE INDIAN SCIENCE CONGRESS ASSOCIATION

OBSERVATION OF HINDI WEEK CELEBRATION

The inauguration of the Hindi Week of The Indian Science Congress Association started on 12th September, 2016 with Dictation competition. This programme was presided by Dr. Amit Krishna De, Executive Secretary. On this programme Dr. Arun Kumar Pandey, Assistant Executive Secretary was also present. In Hindi Week Ceremony various competitions were organised and everyone participated in this. On 16th September, 2016 Hindi Week Ceremony has it's valedictory session with Quiz Competition. Shri Priyankar Paliwal, Secretary, TOLIC (Offices - 2) conducted Hindi Workshop and judged Dictation Competition. On the prize distribution ceremony of this programme Dr. Vijay Laxmi Saxena, Past General Secretary (Scientific Activities) presented prizes to the participants.

PUBLICATIONS

The bi-monthly journal Everyman's Science (Vol.LI Nos.1-6) was brought out. Other publications brought out were : ISCA Directory : 2016-2017, Annual Report : 2015-2016, Synopsis of the Presentations of ISCA Young Scientist Awardees for 104th ISC, Abstracts of Best Poster Award Programme for 104th ISC and proceedings (containing Presidential Address, abstracts of Platinum Jubilee Lecture, Award Lectures, papers presented and invited lectures of different sections).

OTHER ITEMS

ISCA MEETINGS

Following meetings of different bodies were held during the year 2016-2017.

Name of the Body	Meetings held on
<i>Executive Committee</i>	May 13, 2016, October 03, 2016, October 22, 2016, January 02, 2017 (adjourned to January 7, 2017),
<i>Council</i>	May 14, 2016 , October 22, 2016 and January 02, 2017 (adjourned to January 07, 2017)
<i>Finance & Establishment Committee</i>	May 13, 2016 and October 03, 2016 January 02, 2017
<i>Advisory Committee</i>	May 13, 2016, October 22, 2016, January 02, 2017

Besides above, two meetings of the General President with Sectional Presidents of 104th Indian Science Congress were held on May 14, 2016 and October 22, 2016. Also, meeting of Permanent members of Conveners of ISCA Chapters were held on October 22, 2016 and Chapter Conveners on January 02, 2017.

ISCA REPRESENTATION IN OTHER ORGANIZATIONS DURING 2016-2017

Indian National Science Academy, New Delhi :

Prof. S. S. Katiyar, General President (2001-02), ISCA, Chairman, U.P. State Council for Higher Education, Lucknow, Formerly Vice-Chancellor, Chhatrapati Shahu Ji Maharaj University, Kanpur & Vice Chancellor, C.A. University of Agriculture and Technology, Kanpur & Founder Director, Dr. Ram Manohar Lohia National Law University, Lucknow & President, Association of Indian Universities, New Delhi.

Post Graduate Institute of Medical Education and Research, Chandigarh :

Prof. B.P. Chatterjee, former General Secretary, ISCA, Emeritus Professor, West Bengal University of Technology, Sector-I, BF-142, Salt Lake, Kolkata.

JIPMER, Puducherry, (Jawaharlal Institute of Post Graduate Medical Education and Research):

Dr. Ashok Kumar Saxena, General President (2015-2016) and Former General Secretary, ISCA, Former Dean, Faculty of Science, C.S.J.M. University, Kanpur; 7/182, Swarup Nagar, Kanpur - 208 002, U.P.

National Academy of Engineering, Gurgaon:

Dr. N.B. Basu, General Secretary (Membership Affairs) ISCA, Principal Chief Engineer (C) & C.M.E. (P & D), The Kolkata Municipal Corporation, Kolkata.

All India Institute of Medical Sciences (AIIMS), New Delhi:

Dr.(Mrs.) Vijay Laxmi Saxena, Former General Secretary, ISCA, Coordinator- Bioinformatics Infrastructure Facility Centre of DBT (Government of India), Former Head of the Department of Zoology, Dayanand Girls (P.G.) College, Kanpur; Member: Academic Council, KIIT University, Bhubaneswar; Member: Academic Council, Mysore University, Mysore; Managing Editor, Trends in Life Sciences (An International Journal); Editor, Everyman's Science, ISCA, Kolkata

All India Institute of Medical Sciences, Bhopal:

Dr. (Mrs.) Vijay Laxmi Saxena, Former General Secretary, ISCA, Head of the Department of Zoology, Dayanand Girls (P.G.) College, Kanpur.

All India Institute of Medical Sciences, Bhubaneswar:

Dr. Ashok Kumar Saxena, General President (2015-2016) and Former General Secretary, ISCA, Former Dean, Faculty of Science, S.S.J.M. University, Kanpur.

All India Institute of Medical Sciences, Jodhpur:

Prof. Dr. Ranbir Chander Sobti, General President, (2013-14), ISCA, Vice-Chancellor, Babasaheb Bhimrao Ambedkar University, Lucknow - 226 025

All India Institute of Medical Sciences, Patna:

Prof. S.S. Katiyar, Former General President, ISCA and Former Vice-Chancellor, Chhatrapati Shahu Ji Maharaj University, Kanpur & Vice-Chancellor, C.A. University of Agriculture and Technology, Kanpur & Former Chairman, U.P. State Council for Higher Education, Lucknow.

All India Institute of Medical Sciences, Raipur:

Prof. H.P. Tiwari, Former General Secretary, ISCA, Allahabad.

All India Institute of Medical Sciences, Rishikesh:

Dr. Manoj Kumar Chakrabarti, General President (2018-2019), ISCA, Scientist G (Director Grade) & Head, Division of Pathophysiology, National Institute of Cholera and Enteric Diseases (ICMR), Kolkata.

MEMBERSHIP

The trend in Membership of different categories during the last three years can be observed from the following table :

	102 nd Session (2014-2015)	103 rd Session (2015-2016)	104 th Session (2016-2017)
Life Member	26,782	29,059	32,137
Annual Member	6,642	4,920	7,793
Sessional Member	2,127	4,195	3,176
Student Member	2,227	3,702	3,140
Individual Donor	20	23	26
Institutional Donor	31	33	34
Institutional Member	12	8	8
Total	37,841	41,940	46,314

ORGANIZATIONAL SET-UP*

The composition of GB/GC/FC :

The composition of **General Body** of ISCA consists of all the Members (with voting right) and Honorary Members of the Association.

The **Council** consists of (i) Members of Executive Committee, (ii) all such Members or Honorary Members of the Association who have held office as General President, General Secretary or Treasurer, (iii) Sectional Presidents, (iv) seven members of the Association elected by the General Body, (v) one member to be nominated by The Kolkata Municipal Corporation, (vi) Editor-in-Chief of Everyman's Science, and (vii) a nominee of Indian National Science Academy (INSA) Council who is a member of ISCA.

The **Executive Committee** consists of the General President, the Immediate Past General President, the General President-Elect, the two General Secretaries, the Treasurer, ten members elected by the General Body, and Secretary or his nominee, Department of Science and Technology, Government of India and two local Secretaries of the ensuing session.

ISCA has five **Statutory Committees** viz : (i) Advisory Committee (ii) Finance & Establishment Committee (iii) Publication Committee (iv) Endowment Committee and (v) Standing Committee on Science and Society.

Staff Welfare measures :

No staff welfare matters was taken during the year under report.

Implementation of reservation policy :

The Association is following the policy of the Government of India in the matter of recruitment of its staff members.

* In accordance with the suggestion given by DST in its letter No.AI/AR/004/2007 dated 31-03-2007 the above materials on organizational set-up are also furnished.

Implementation of the Official Languages Policy :

Steps to implement the provisions of Official Languages Policy as adopted by the Government of India from time to time, have been taken by the Association by way of printing of letterheads, title headings in different registers, name plates of different sections, membership forms, annual report, etc.in bi-lingual forms. A Junior Hindi Translator is looking after the above work.

Right to Information Act :

As per Right to Information Act a Public Information Officer has been identified from the existing Officers and her name has been displayed in the ISCA Website. Any enquiry received regarding R.T.I.is taken care of by the concerned Officer.

Public Grievances Redress Mechanism :

Executive Secretary has been nominated as Public Grievance Officer to take necessary action on complaints received from the members of the Association. There is also a Vigilance Officer whose name has been displayed in the ISCA Website.

Citizen's Charter :**Reservation Policy under the Corporate Social Responsibility :**

The Association is following the Reservation Policy of the Government of India in respectof SC/ST/OBC in the matter of recruitment of its staff members and a roster is maintained in this regard.

ACKNOWLEDGEMENTS

The Executive Committee of the Indian Science Congress Association is grateful to the Department of Science & Technology, Government of India, for the generous grant-in-aid to the Association. The Committee would also like to record its deep appreciation of the continued help and cooperation received from officers and staff of DST.

The Executive Committee records its great appreciation of the personal interest for hosting and organizing the 104th Indian Science Congress by S V University, Tirupati. Sincere thanks are also due to the Prof. A. Damodaram, Vice-Chancellor and their associates, for their untiring efforts to make the 104th Indian Science Congress a grand success.

The Executive Committee also expresses its indebtedness to the Council and the members of the General Body as also Members of different Committees and Sub-Committees, Sectional Presidents, Sectional Recorders, Local Sectional Secretaries, Chapter Conveners and members of the Sectional Committees for their guidance and advice. In referring to the success achieved at the 104th Session, it is a pleasure for the Committee to record its gratefulness to the General President, Prof. D. Narayana Rao for all his efforts to make the 104th Indian Science Congress a great success and memorable one.

Last but not least, no record of acknowledgement could be complete without expressing the deep appreciation of the work done by the staff of the Association throughout the year.

Nationwide Activities through ISCA Chapters (2016-2017)



ISCA Allahabad Chapter



ISCA Amravati Chapter



ISCA Bangalore Chapter



ISCA Bhubaneswar Chapter

Nationwide Activities through ISCA Chapters (2016-2017)



ISCA Chennai Chapter



ISCA Coimbatore Chapter



ISCA Haridwar Chapter



ISCA Jaipur Chapter

Nationwide Activities through ISCA Chapters (2016-2017)



ISCA Jammu Chapter



ISCA Kanpur Chapter



ISCA Kolkata Chapter



ISCA Kurukshetra Chapter



TITLE OF ADDRESSES OF SECTIONAL PRESIDENTS OF 104TH ISC SESSION

SI No.	Section	President	Title
1.	<i>Agriculture and Forestry Sciences</i>	Dr. Ashok K. Patra Bhopal	Impacts of Climate Change on Fertilizer use, soil health and crop productivity in India.
2.	<i>Animal, Veterinary and Fishery Sciences</i>	Prof. B.B. Kaliwal Davangere	Biotechnology is a tool for Human Welfare.
3.	<i>Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)</i>	Prof. Subho Roy Kolkata	Aging and Human Development - A Challenge for the 21 st Century.
4.	<i>Chemical Sciences</i>	Prof. Raj Nath Yadava Sagar	Studies on Potential allelochemicals from some Indigenous Medicinal Plants.
5.	<i>Earth System Sciences</i>	Dr. Onkar Singh Chauhan Goa	Application of remote sensing and a new sedimentary proxy to decipher sources, dispersal and sequestration pathways of the continental fluxes in the ocean.
6.	<i>Engineering Sciences</i>	Mr. Sisir Kr. Banerjee Kolkata	Engineering education and its relevance in the present context.
7.	<i>Environmental Sciences</i>	Prof. Swati Gupta-Bhattacharya Kolkata	Identification and characterization of aero-allergens for better livelihood.
8.	<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Mr. Devaprasanna Sinha Kolkata	Revisiting Leading Vistas of Information and Communication Technology and its Contemporaneity.
9.	<i>Materials Science</i>	Dr. Durgesh Nath Tripathi Kanpur	Development of Polymeric/ Elastomeric Materials for Defence and Aeronautical Applications.
10.	<i>Mathematical Sciences (including Statistics)</i>	Prof. Tarun Kumar Das Delhi	Recent Advances in Differentiable and Measure Theoretic Dynamical Systems.
11.	<i>Medical Sciences (including Physiology)</i>	Prof. Somnath Roy Midnapore	Genetic polymorphism and drug resistance: A problem in malaria control.
12.	<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	Prof. Dhrubajyoti Chattopadhyay Kolkata	Drug Discovery: Past, Present and Future
13.	<i>Physical Sciences</i>	Prof. Sugriva Nath Tiwari Gorakhpur	Liquid Crystal Interactions: An Overview.
14.	<i>Plant Sciences</i>	Prof. Vijai Pal Singh Bareilly	Heavy Metals, Nitrophenols and Chloroaminophenols: Toxicity and their Phytoremediation/ Bacterial Degradation.

PLATINUM JUBILEE LECTURES OF 104TH ISC SESSION

Section	Speaker	Title
<i>Agriculture and Forestry Sciences</i>	Prof. O.P. Yadav Jodhpur	Marching towards Second Green Revolution: Issues and Opportunities.
<i>Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)</i>	Dr. Sarit Kumar Chaudhuri Bhopal	Tribe, State and Development: Understanding Transformative Discourse in India's North East.
<i>Chemical Sciences</i>	Dr. Pawan K. Sharma Kurukshetra	Impending Paradigm Shift in Drug Design and Discovery
<i>Earth System Sciences</i>	Dr. Devesh Walia Shillong	Active Tectonics in Shillong Plateau
<i>Environmental Sciences</i>	Dr. Sudip Chattopadhyay Durgapur	Calmodulin 7 (CAM7) and Elongated Hypocotyl5 (HY5) work in concert to regulate <i>Arabidopsis</i> seedling Development.
<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Dr. Sanghamitra Bandyopadhyay Kolkata	Computational Biology: Challenges and Advances
<i>Mathematical Sciences (including Statistics)</i>	Dr. Indranil Biswas Kolkata	Homogeneous Bundles on Hermitian Symmetric Spaces.
<i>Medical Sciences (including Physiology)</i>	Prof. Uday Bandyopadhyay Kolkata	Non-steroidal anti-inflammatory drugs (NSAIDs) - induced gastric injury/ gastropathy: cause and correction.
<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	Prof. Hari S. Misra Mumbai	Bacterial response to DNA damage: beyond LexA/RecA type SOS response.

**TITLES OF SYMPOSIA ON SPECIALIZED TOPICS ORGANISED BY
THE SECTIONS OF 104TH ISC SESSION**

Sl No.	Section	Topic(s)
1.	<i>Agriculture and Forestry Sciences</i>	<ol style="list-style-type: none"> Enhancing Soil Health for Sustainable Agriculture and Environment. Climate-Smart Agriculture.
2.	<i>Animal, Veterinary and Fishery Sciences</i>	<ol style="list-style-type: none"> Animal Sciences a boon for the Development. Biotechnology as a tool for food, health and livelihood security.
3.	<i>Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)</i>	<ol style="list-style-type: none"> Engaging Anthropology for National Development. Role of Behavioural Sciences for National Development.
4.	<i>Chemical Sciences</i>	<ol style="list-style-type: none"> Advances in Natural Products Research: Perspectives and Prospects. Recent Advances in Medicinal Chemistry.
5.	<i>Earth System Sciences</i>	<ol style="list-style-type: none"> Causes, response and mitigation strategies for climatic change. Global Climate Changes and extreme events.
6.	<i>Engineering Sciences</i>	<ol style="list-style-type: none"> Role of Renewable Energy in the rural & urban sectors. Institutionalisation of Water Resources Development to meet the growing challenges.
7.	<i>Environmental Sciences</i>	<ol style="list-style-type: none"> Documentation and conservation of Indian biodiversity with special emphasis on indigenous knowledge-based natural resources. Assessment and mitigation of environmental pollution in terms of bioaerosols for better livelihood.
8.	<i>Information and Communication Science & Technology (including Computer Sciences)</i>	<ol style="list-style-type: none"> Role of Societies and Organisations in Computer Science and Technology for National Development. Impact of Information Technology and Communication Sciences and Technology for National Development.
9.	<i>Materials Science</i>	<ol style="list-style-type: none"> Material Science and Technology for Defence Applications Material Science and Technology for Aeronautical Applications.
10.	<i>Mathematical Sciences (including Statistics)</i>	<ol style="list-style-type: none"> Strategies for the improvement of Mathematics Education in relation to National Development. Algebra and Coding Theory. Space Dynamics.
11.	<i>Medical Sciences (including Physiology)</i>	<ol style="list-style-type: none"> Current Trends of Physiological Research in Community Development. Nano and Conventional Technology in Cancer Research.
12.	<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	<ol style="list-style-type: none"> Cell Signaling and Cellular Regulation: Promise to Practice. Chemical Biology and Drug Research.
13.	<i>Physical Sciences</i>	<ol style="list-style-type: none"> Physics in National Development. Physical Sciences in Nation Building.
14.	<i>Plant Sciences</i>	<ol style="list-style-type: none"> Phytoremediation Plant Science Research for Human Welfare.

LIST OF YOUNG SCIENTIST AWARDEES FOR THE YEAR 2016-2017

SI No.	Section	Name of the Awardee(s)	Title of the Paper(s)
1.	<i>Agriculture and Forestry Sciences</i>	Bappa Das Old Goa	Evaluation of Different Unit- and Multi-Variate Techniques for Water- Deficit Stress Phenotyping of Rice Through Spectroscopy.
2.	<i>Animal, Veterinary and Fishery Sciences</i>	Sreekanth G. B. Old Goa	Fish Communities Refuge Shipwrecks than Natural Reefs along South West Coast of India
3.	<i>Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)</i>	Nivedita Som Kolkata	Body Image Perception of Adolescent Girls: A Study in the City of Kolkata, West Bengal.
4.	<i>Chemical Sciences</i>	Satyabadi Martha Bhubaneswar	Onestep Ssynthesis of g-C3N4 Powder Photocatalyst and Thin Film as Photoanode for Photocatalytic and Photoelectrochemical Applications.
5.	<i>Earth System Sciences</i>	Shital P. Godad Goa	Variability of Winter Cooling in the Arabian Sea: Implications for the NE Monsoon.
6.	<i>Engineering Sciences</i>	Nandini Bhandaru Kharagpur	Capillary Force Assisted Nano Patterning of De-mixed Polymer Blend Thin Films.
7.	<i>Environmental Sciences</i>	Praveen Dhyani Almora	Source Dependent Variation in Bioactive Compounds of Selected Apple Cultivars in Western Himalaya.
8.	<i>Information and Communication Science & Technology (including Computer Sciences)</i>	Abhirup Banerjee Kolkata	Rough-Probabilistic Clustering for Brain Tumor Segmentation in Multispectral MR Images.
9.	<i>Materials Science</i>	Anjilina Kerketta Kanpur	Preparation of Flame Retardant Fibers of Polyphosphazene and it's Blends with Polyolefins.
10.	<i>Mathematical Sciences (including Statistics)</i>	No Award	
11.	<i>Medical Sciences (including Physiology)</i>	Sabyasachi Das Paschim Medinipur	Artemisinin Combination Therapy failure in <i>Plasmodium falciparum</i> Associates with Novel Genetic Polymorphisms: An Emerging Problem in Eastern India.
12.	<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	Bodhisattwa Saha Kolkata	Proteomics Assisted Identification, Cloning and Epitope Mapping of Coc n 1, the First Major Cross Reactive Allergen of Coconut and Date Palm Pollen.

LIST OF YOUNG SCIENTIST AWARDEES FOR THE YEAR 2016-2017

SI No.	Section	Name of the Awardee(s)	Title of the Paper(s)
13.	<i>Physical Sciences</i>	Dharmendra Pratap Singh Lucknow	Gradual Growth of Ferroelectric Mesophase under Geometrical Confinement in Core/ Shell Quantum Dot-Ferroelectric Liquid Crystal Composite and their Ultra-fast Electro-optical Response for Display Application.
14.	<i>Plant Sciences</i>	Neha Pandey Lucknow	UV-B radiation as epigenetic modulator of artemisinin biosynthesis in <i>Artemisia annua</i> L., an antimalarial plant.

LIST OF BEST POSTER PRESENTATION AWARDEES FOR 2016-2017

Sl No.	Sections	Name of the Awardee(s)	Title of Paper (s)
1.	<i>Agriculture and Forestry Sciences</i>	1. Ganajaxi Math Karnataka	Use of Sunflower (<i>Helianthus annuus</i> L.) residue compost to urdbean (<i>Vigna mungo</i> L. Hepper) for improving soil health
2.	<i>Animal, Veterinary and Fishery Sciences</i>	1. Yashika Awasthi Lucknow	Cr ⁶⁺ induced oxidative stress and altered expression of p53 and bax genes in fish <i>Channa punctatus</i> (Bloch).
		2. Yogita Y. Falak Jalgaon	Antibacterial potential of some extracts of <i>Eisenia spp.</i>
3.	<i>Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)</i>	1. Sangeeta Dey Delhi	Supernumerary Volar Digital Flexion Crease: A New Feature for Forensic Identification in India
		2. Nandini Ganguly Kolkata	Association of disordered eating behaviours with dietary pattern of the urban adolescent girls of West Bengal, India: An exploratory study
4.	<i>Chemical Sciences</i>	1. Aarti Dalal Kurukshetra	Photoreorganization of Chromenones: A Green and Convenient Synthesis of fused Xanthenones
		2. Pradeep Kumar Brahman Guntur	Design and development of a composite film based on CuNPs/Fullerene- 60/MWCNTs for the trace recognition of paracetamol
5.	<i>Earth System Sciences</i>	No Award	
6.	<i>Engineering Sciences</i>	No Award	
7.	<i>Environmental Sciences</i>	1. Partha Karak Santiniketan	Fungal aerosols, pollutants and meteorological factors leading to increasing allergic diseases in Durgapur- an industrial township of West Bengal, India
		2. Priyanka Priyadarshani Ranchi	Measuring Carbon Footprint Impacts of Microfinance: An Empirical Study of Deoghar district, Jharkhand
8.	<i>Information and Communication Science & Technology (including Computer Sciences)</i>	1. Mayank Agarwal Varanasi	Four-Element Highly Isolated MIMO Antenna System for 5 GHz WLAN Applications
		2. Ajish K. Abraham Mysore	Effect of microphone type on some temporal and spectral parameters of speech sounds recorded through PC
9.	<i>Materials Science</i>	No Award	

LIST OF BEST POSTER PRESENTATION AWARDEES FOR 2016-2017

SI No.	Sections	Name of the Awardee(s)	Title of Paper (s)
10.	<i>Mathematical Sciences (including Statistics)</i>	1. Rishikesh Dutta Tiwary Dhanbad	Effects of radiation pressure and oblateness on the regularized restricted three body problem
11.	<i>Medical Sciences (including Physiology)</i>	No Award	
12.	<i>New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)</i>	1. Nandini, B Mysuru	Novel membrane lipid nanoemulsion of <i>Trichoderma</i> spp. for the induction of systemic resistance in pearl millet against downy mildew disease
13.	<i>Physical Sciences</i>	1. Swarniv Chandra Kolkata	Investigation of ion-acoustic solitary structures in multi-component plasma containing q-exponential distributed electron beam
		2. Ajaz Hussain Lucknow	Volumetric, Acoustical and Optical Properties of Poly Ethylene Glycol Methyl Ether Methacrylate (PEGMA) 475 with 2-Methoxyethanol and 2-Ethoxyethanol : An Experimental and ¹ H NMR Spectroscopy Study.
14.	<i>Plant Sciences</i>	1. Debleena Roy Kolkata	An easy approach to augment the antioxidative potentials of peppermint through micropropagation.

LIST OF INFOSYS FOUNDATION - ISCA TRAVEL AWARDEES FOR 2016-2017

Sl. No.	Name of the Awardee
1.	Tushar Agarwal Seth Anandram Jaipuria School, Kanpur
2.	Sheen Parimoo Seth Anandram Jaipuria School, Kanpur
3.	Shourya Singh Seth Anandram Jaipuria School, Kanpur
4.	Subhanjali Saraswati Mahadevi Birla World Academy, Kolkata
5.	V. Manaswini Montessori English Medium High School, Mahabubabad
6.	Sanjay Bhartiya Vidyabhavan, Tirupati
7.	S. Vidhayini Sree Vidyanikethan International School, Tirupati
8.	Jithendra Bhartiya Vidyabhavan, Tirupati
9.	Praneeth Kumar G Sree Vidyanikethan International School, Tirupati
10.	P. Kapileshwar Marg Chinmaya Vidyalaya, Tiruchnoor Bypass Road, Tirupati

MEMBERS OF THE COUNCIL FOR 2016-2017

General President		Dr. Manmohan Singh	New Delhi
Prof. D.Narayana Rao	Kattankulathur	Prof. Dr. Ranbir Chander Sobti	Lucknow
Immediate Past General President		Past General Secretaries	
Dr. Ashok Kumar Saxena	Kanpur	Dr. (Miss) Shashi Prabha Arya	New Delhi
General President Elect		Prof. H.P. Tiwari	Allahabad
Dr. Achyuta Samanta	Bhubaneswar	Prof. S.P. Mukherjee	Kolkata
General Secretary (Membership Affairs)		Dr. (Mrs.) Yogini Pathak	Vadodara
Prof. Gangadhar	Bengaluru	Prof. Uma Kant	Jaipur
General Secretary (Scientific Activities)		Prof. B. Satyanarayana	Hyderabad
Prof. Premendu P.Mathur	Bhubaneswar	Prof. B.P. Chatterjee	Kolkata
Treasurer		Prof. S.P. Singh	Kurukshetra
Prof. Ranjit Kumar Verma	Patna	Prof. Avijit Banerji	Kolkata
Elected Members of the Executive Committee		Dr. Manoj Kumar Chakrabarti	Kolkata
Prof.(Dr.) Kanhaiya Lal Shrivastava	Jodhpur	Dr. (Mrs.) Vijay Laxmi Saxena	Kanpur
Prof. Pramod K. Verma	Bhopal	Dr. Nilangshu Bhusan Basu	Kolkata
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Dr. S. Ramakrishna	Bengaluru	Prof. Dhyendra Kumar	Arrah
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Prof. Naresh Padha	Jammu	Dr. Ashok K. Patra	Bhopal
Prof. C. Muthamizhchelvan	Kattankulathur	Prof. B.B. Kaliwal	Davangere
Prof. R. Ramamurthi	Tirupati	Prof. Subho Roy	Kolkata
Representative of DST, Government of India		Prof. Raj Nath Yadava	Sagar
Dr. Praveer Asthana	New Delhi	Dr. Onkar Singh Chauhan	Goa
Local Secretaries		Mr. Sisir Kr. Banerjee	Kolkata
Prof. N. Sethuraman	Kattankulathur	Prof. Swati Gupta-Bhattacharya	Kolkata
Prof. C. Muthamizhchelvan	Kattankulathur	Mr. Devaprasanna Sinha	Kolkata
Past General Presidents		Dr. Durgesh Nath Tripathi	Kanpur
Prof. M.S. Swaminathan	Chennai	Prof. Tarun Kumar Das	Delhi
Prof. A.K. Sharma	Kolkata	Prof. Somnath Roy	Kolkata
Prof. M.G.K. Menon	New Delhi	Prof. Dhrubajyoti Chattopadhyay	Kolkata
Prof. R.P. Bambah	Chandigarh	Prof. Sugriva Nath Tiwari	Gorakhpur
Prof. C.N.R. Rao	Bengaluru	Prof. Vijai Pal Singh	Bareilly
Prof. Yash Pal	Noida	Elected Members of the Council	
Prof. D.K. Sinha	Kolkata	Mr. Gauravendra Swarup	Kanpur
Prof. P.N. Srivastava	Gurgaon	Dr. Vidya Patni	Jaipur
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Prof. U.R. Rao	Bengaluru	Prof. (Dr.) S. Rajarajan	Sonepat
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Dr. (Mrs.) Manju Sharma	New Delhi	Prof. S.V. Kashmir Raja	Chennai
Dr. R.A. Mashelkar	Pune	Representative of The Kolkata Municipal Corporation	
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Prof. S.S. Katiyar	Kanpur	Editor-in-Chief of Everyman's Science	
Dr. K. Kasturirangan	Bengaluru	Dr. Ashok Kumar Saxena	Kanpur
Prof. Asis Datta	New Delhi	Representative of Indian National Science Academy (INSA) Council	
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Prof. Harsh Gupta	Hyderabad		
Dr. T. Ramasami	Chennai		
Dr. G. Madhavan Nair	Trivandrum		
Prof. K.C. Pandey	Lucknow		
Prof. Geetha Bali	Bengaluru		

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Prof. Achyuta Samanta Bhubaneswar

Immediate Past General President

Prof. D. Narayana Rao Vijayawada

General President Elect

Dr. Manoj Kumar Chakrabarti Kolkata

General Secretary (Membership Affairs)

Prof. Gangadhar Bengaluru

General Secretary (Scientific Activities)

Prof. Premendu P. Mathur Bhubaneswar

Treasurer

Prof. Ranjit Kumar Verma Bodh Gaya

Elected Members of the Executive Committee

Dr. Ashok Kumar Saxena Kanpur

Mrs. Kumkum Swarup Kanpur

Dr. Anoop Kr. Jain Mumbai

Dr. S. Ramakrishna Bengaluru

Prof. M. Bhupathi Naidu Tirupati

Dr. Nibedita Chakrabarti Kolkata

Prof. Subodh Kumar Jain Sagar

Prof. M.K. Jyoti Jammu

Prof. Kanhaiya Lal Shrivastava Jodhpur

Prof. C. Muthamizhchelvan Kattankulathur

Representative of DST, Government of India

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Local Secretaries

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Dr. Surendra Kumar Singh Nagpur

Prof. Poduri Nagaraja Rao Hyderabad

Dr. Rakesh Kumar Srivastava Navi Mumbai

Prof. K.S. Rangappa Mysore

Dr. Devesh Walia Shillong

Dr. Arunkanti Biswas Kolkata

Dr. Subrat Sharma Almora

Dr. M. Sundaresan Coimbatore

Prof. Dinesh Kumar Faridabad

Dr. M. Xavier James Raj Thiruvananthapuram

Prof. Anup Kumar Bhattacharya Kishanganj

Prof. V. Ravishankar Rai Mysore

Prof. Manisha Gupta Lucknow

Dr. Akhilesh Kumar Pandey Bhopal

Elected Members of the Council

Mr. Gauravendra Swarup Kanpur

Dr. Atul N. Nerkar Nagpur

Prof. K. Byrappa Mangalagangotri

Prof. Sunil Prakash Trivedi Lucknow

Dr. M.G. Ragunathan Chennai

Prof. (Dr.) S. Rajarajan Sonipat

Prof. S.V. Kashmir Raja Kattankulathur

Representative of The Kolkata Municipal Corporation

Mr. Samiran Ghosh Kolkata

Editor-in-Chief of Everyman's Science

Dr. Ashok Kumar Saxena Kanpur

Representative of Indian National Science Academy (INSA) Council

Prof. N.R. Jagannathan New Delhi

PERSONNEL

STAFF AS ON MARCH 31, 2017

Executive Secretary

Dr. Amit Krishna De

Assistant Executive Secretary

Dr. Arun Kumar Pandey

Section Officer III

Mrs. Indrani Das

Office Assistant I

Mr. Santu Kumar Ghosh

Mrs. Swasti Roy

Junior Hindi Translator

Mrs. Debasree Dutta (Saha)

Office Assistant I

Mr. Pijus Ghosh

Office Assistant II

Mr. Kaushik Kumar Nandy

Mr. Sudip Kumar Bala

Mr. Dipankar Dey

Mr. Sambhu Nath Chatterjee

Office Assistant III

Mr. Akshya Kumar Patra

Mr. Owen Mechabeus Lakra

Mr. Anit Pal

Mr. Krishna Bhujel

Mr. Sudhansu Chowdhury

Mr. Prabhu Dayal Singh

Mr. Subhas Das

Mr. Swarup Kumar Mondal

Mr. Gopal Nath

Mr. Dipesh Chandra Ghosh

Multitasking Staff

Mr. Saikat Mandal

Mr. Anupam Sarkar

Staff Car Driver

Mr. Manojit Sankar Dasgupta

**GENERAL PRESIDENTS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
1 st	1914	Calcutta Asutosh Mookerjee	Hon.Justice Sir About Science Congress
2 nd	1915	Madras Hon.Surgeon-General Dr.W.B.Bannermann	The Importance of Knowledge of Biology to Medical, Sanitary and Scientific Men Working in the Tropics
3 rd	1916	Lucknow Colonel Sir Syndey Burrard	The Plains of Northern India and their Burrar Relationship to the Himalayan Moutains
4 th	1917	Bangalore Sir Alfred Gibbs Bourne	On Scientific Research
5 th	1918	Lahore Dr.Gilbert T.Walker	On Teaching of Science
6 th	1919	Bombay Lt.Colonel Sir Leonard Rogers	Researches on Cholera
7 th	1920	Nagpur Acharya Prafulla Chandra Ray	Dawn of Science in Modern India
8 th	1921	Calcutta Sir Rajendra Nath Mookerjee	On Science and Industry
9 th	1922	Madras Mr.C.S.Middlemiss	Relativity
10 th	1923	Lucknow Sir M. Visvesvaraya	Scientific Institutions and Scientists
11 th	1924	Bangalore Dr.T.N.Annandale	Evolution Convergent and Divergent
12 th	1925	Banaras Dr.M.O.Forster	On Experimental Training
13 th	1926	Bombay Mr.Albert Howard	Agriculture and Science
14 th	1927	Lahore Sir J.C.Bose	The Unity of Life
15 th	1928	Calcutta Dr.J.L.Simonsen	On Chemistry of Natural Products
16 th	1929	Madras Professor C.V.Raman	On Raman Effect
17 th	1930	Allahabad Col.S.R.Christophers	The Science and Disease
18 th	1931	Nagpur Lt.Col.R.B.Seymour- Sewell	The Problem of Evolution - Experimental Modification of Bodily Structure
19 th	1932	Bangalore Rai Bahadur Lal Shiv Ram Kashyap	Some Aspects of the Alpine Vegetation of the Himalaya and Tibet
20 th	1933	Patna Sir Lewis L.Fermor	The Place of Geology in the Life of a Nation
21 st	1934	Bombay Professor M.N.Saha	Fundamental Cosmological Problems
22 nd	1935	Calcutta Dr.J.H.Hutton	Anthropology and India
23 rd	1936	Indore Sir U.N.Brahmachari	The Role of Science in the Recent Progress of Medicine
24 th	1937	Hyderabad Rao Bahadur T.S. Venkatraman	The Indian Village – its Past, Present and Future
25 th	1938	Calcutta Sir James H.Jeans (Lord Rutherford of Nelson died prematurely)	Researches in India and in Great Britain
26 th	1939	Lahore Professor J.C.Ghosh	On Research in Chemistry in India
27 th	1940	Madras Professor B.Sahni	The Deccan Traps : An Episode of the Tertiary Era
28 th	1941	Banaras Sir Ardeshir Dalal	Science and Industry
29 th	1942	Baroda Dr.D.N.Wadia	The Making of India

**GENERAL PRESIDENTS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>	
30 th	1943	Calcutta	Dr.D.N.Wadia	Minerals' Share in the War
31 st	1944	Delhi	Professor S.N.Bose	The Classical Determinism and the Quantum Theory
32 nd	1945	Nagpur	Sir Shanti S.Bhatnagar	Give Science a Chance
33 rd	1946	Bangalore	Prof. M.Afzal Husain	The Food Problem of India
34 th	1947	Delhi	Pandit Jawaharlal Nehru	Science in the Service of the Nation
35 th	1948	Patna	Colonel Sir Ram Nath Chopra	Rationalisation of Medicine in India
36 th	1949	Allahabad	Sir K.S.Krishnan	—————
37 th	1950	Poona	Prof. P.C. Mahalanobis	Why Statistics
38 th	1951	Bangalore	Dr.H.J.Bhabha	The Present Concept of the Physical World
39 th	1952	Calcutta	Dr.J.N.Mukherjee	Science and Our Problems
40 th	1953	Lucknow	Dr.D.M.Bose	The Living and the Non-living
41 st	1954	Hyderabad	Dr.S.L.Hora	Give Scientists a Chance
42 nd	1955	Baroda	Professor S.K.Mitra	Science and Progress
43 rd	1956	Agra	Dr.M.S.Krishnan	Mineral Resources and Their Problems
44 th	1957	Calcutta	Dr.B.C.Roy	On Science for Human Welfare and Development of the Country
45 th	1958	Madras	Prof.M.S.Thacker	Grammar of Scientific Development
46 th	1959	Delhi	Dr.A.L.Mudaliar	Tribute to Basic Sciences
47 th	1960	Bombay	Prof. P.Parija	Impact of Society on Science
48 th	1961	Roorkee	Prof. N.R.Dhar	Nitrogen Problem
49 th	1962	Cuttack	Dr.B.Mukerji	Impact of Life Sciences on Man
50 th	1963	Delhi	Prof. D.S.Kothari	Science and the Universities
51 st	1964	Calcutta	Prof. Humayun Kabir	Science and the State
52 nd	1965	Calcutta	Prof. Humayun Kabir
53 rd	1966	Chandigarh	Prof. B.N.Prasad	Science in India
54 th	1967	Hyderabad	Prof.T.R.Seshadri	Science and National Welfare
55 th	1968	Varanasi	Dr.Atma Ram	Science in India – Some Aspects
56 th	1969	Bombay	Dr.A.C.Joshi (Prof.A.C.Banerjee died prematurely)	A Breathing Spell : Plant Sciences in the Service of Men
57 th	1970	Kharagpur	Dr.L.C.Verman	Standardization : A Triple Point Discipline
58 th	1971	Bangalore	Dr.B.P.Pal	Agricultural Science and Human Welfare
59 th	1972	Calcutta	Prof. W.D.West	Geology in the Service of India
60 th	1973	Chandigarh	Dr.S.Bhagavantam	Sixty Years of Science in India
61 st	1974	Nagpur	Prof. R.S.Mishra	Mathematics – Queen or Handmaiden
62 nd	1975	Delhi	Prof. (Mrs.) Asima Chatterjee	Science and Technology in India : Present and Future
63 rd	1976	Waltair	Dr.M.S.Swaminathan	Science and Integrated Rural Development
64 th	1977	Bhubaneswar	Dr.H.N.Sethna	Survey, Conservation and Utilisation of Resources
65 th	1978	Ahmedabad	Dr.S.M.Sircar	Science Education and Rural Development
66 th	1979	Hyderabad	Prof. R.C.Mehrotra	Science and Technology in India During the Coming Decade(s)

**GENERAL PRESIDENTS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>	
67 th	1980	Jadavpur	Prof. A.K.Saha	Energy Strategies for India
68 th	1981	Varanasi	Prof. A.K.Sharma	Impact of the Development of Science and Technology on Environment
69 th	1982	Mysore	Prof. M.G.K. Menon	Basic Research as an Integral Component of Self-reliant Base of Science and Technology
70 th	1983	Tirupati	Prof. B. Ramachandra Rao	Man and the Ocean – Resource and Development
71 st	1984	Ranchi	Prof. R.P.Bambah	Quality Science in India – Ends and Means
72 nd	1985	Lucknow	Prof. A.S.Paintal	High Altitude Studies
73 rd	1986	Delhi	Dr.T.N.Khoshoo	Role of Science and Technology in Environmental Management
74 th	1987	Bangalore	Prof. (Mrs.) Archana Sharma	Resources and Human Well-being – Inputs from Science and Technology
75 th	1988	Pune	Prof. C.N.R.Rao	Frontiers in Science & Technology
76 th	1989	Madurai	Dr.A.P.Mitra	Science & Technology in India : Technology Missions
77 th	1990	Cochin	Prof. Yash Pal	Science in Society
78 th	1991	Indore	Prof. D.K.Sinha	Coping with Natural Disaster : An Integrated Approach
79 th	1992	Baroda	Dr.Vasant Gowariker	Science, Population and Development
80 th	1993	Goa	Dr.S.Z.Qasim	Science and Quality of Life
81 st	1994	Jaipur	Prof.P.N.Srivastava	Science in India : Excellence and Accountability
82 nd	1995	Calcutta	Dr.S.C.Pakrashi	Science, Technology and Industrial Development in India
83 rd	1996	Patiala	Prof. U.R.Rao	Science and Technology for Achieving Food, Economic and Healthy Security
84 th	1997	Delhi	Dr.S.K.Joshi	Frontiers in Science & Engineering and Their Relevance to National Development
85 th	1998	Hyderabad	Prof. P.Rama Rao	Science & Technology in Independent India : Retrospect and Prospect
86 th	1999	Chennai	Dr.(Mrs.) Manju Sharma	New Bioscience : Opportunities and Challenges as we Move into the Next Millennium
87 th	2000	Pune	Dr.R.A.Mashelkar	Indian S & T into the Next Millennium
88 th	2001	New Delhi	Dr.R.S.Paroda	Food, Nutrition and Environmental Security
89 th	2002	Lucknow	Prof. S.S.Katiyar	Health Care, Education and Information Technology
90 th	2003	Bangalore	Dr.K.Kasturirangan	Frontier Science and Cutting-Edge Technologies
91 st	2004	Chandigarh	Prof. Asis Datta	Science and Society in the Twenty First Century : Quest for Excellence
92 nd	2005	Ahmedabad	Prof.N.K.Ganguly	Health Technology as Fulcrum of Development for the Nation
93 rd	2006	Hyderabad	Dr.I.V.Subba Rao	Integrated Rural Development : Science and Technology

**GENERAL PRESIDENTS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>	
94 th	2007	Annamalainagar	Prof.Harsh Gupta	Planet Earth
95 th	2008	Visakhapatnam	Prof.R.Ramamurthi	Knowledge based Society using Environmentally Sustainable Science and Technology
96 th	2009	Shillong	Dr. T. Ramasami	Science Education and Attraction of talent for Excellence in Research
97 th	2010	Thiruvanthapuram	Dr. G. Madhavan Nair	Science and Technology challenges of 21 st Century – National perspective
98 th	2011	Chennai	Prof. K.C.Pandey	Quality Education and excellence in Scientific Research in Indian University.
99 th	2012	Bhubaneswar	Prof.Geetha Bali	Science and Technology for Inclusive Innovation - Role of Women
100 th	2013	Kolkata	Dr. Manmohan Singh	Science for Shaping The Future of India
101 st	2014	Jammu	Prof. Dr. Ranbir Chander Sobti	Innovations in Science & Technology for Inclusive Development
102 nd	2015	Mumbai		Science and Technology for Human Development
103 rd	2016	Mysuru	Dr. Ashok Kumar Saxena	Science and Technology for Indigenous Development in India
104 th	2017	Tirupati	Prof. D. Narayana Rao	Science and Technology for National Development

**GENERAL SECRETARIES OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Year</i>	<i>Name</i>	<i>Year</i>	<i>Name</i>
1913-14	Mr. D. Hooper	1973-76	Dr. S.M. Sircar
1914-26	Dr. J.L. Simonsen	1974-77	Prof. R.D. Tiwari
1914-20	Mr. P.S. Macmahon	1976-79	Prof. A.K. Sharma
1920-25	Dr. C.V. Raman	1977-80	Dr. B. Ramachandra Rao
1924-35	Dr. S.P. Agharkar	1979-82	Dr. D. Basu
1926-30	Dr. Roland V. Norris	1980-83	Prof. Arun K. Dey
1930-32	Dr. H.B. Dunncliff	1982-85	Prof. (Mrs.) Archana Sharma
1932-39	Mr. W.D. West	1983-86	Prof. M.K. Singal
1935-40	Prof. J.N. Mukherjee	1985-88	Prof. D.K. Sinha
1938-44	Prof. P. Parija	1986-89	Dr. (Miss) S.P. Arya
1939-45	Prof. S.K. Mitra	1988-91	Dr. S.C. Pakrashi
1944-45	Prof. P.C. Mitter	1989-92	Dr. (Mrs.) Gouri Ganguly
1944-49	Prof. M. Qureshi	1991-94	Prof. D.P. Chakraborty
1945-48	Prof. P.C. Mahalanobis	1992-95	Prof. H.P. Tiwari
1948-52	Dr. B. Mukerji	1994-97	Prof. S.P. Mukherjee
1948-52	Dr. B. Sanjiva Rao	1995-98	Dr. (Mrs.) Yogini Pathak
1952-53	Dr. S.R. Sen Gupta	1997-2000	Prof. A.S. Mukherjee
1952-55	Dr. B.N. Prasad	1998-2001	Prof. Uma Kant
1953-57	Dr. U.P. Basu	2000-2003	Prof. A.B. Banerjee
1955-58	Dr. B.B. Joshi	2001-2004	Prof. B. Satyanarayana
1957-60	Dr. A.K. Dey	2003-2006	Prof. B.P. Chatterjee
1958-61	Dr. B.N. Prasad	2004-2007	Prof. S.P. Singh
1960-62	Prof. B.C. Guha	2006-2009	Prof. Avijit Banerji
1961-65	Prof. P. S. Gill	2007-2010	Dr. Ashok K. Saxena
1962-66	Dr. Atma Ram	2010-2013	Dr. Manoj Kumar Chakrabarti
1965-68	Prof. Chandra Sekhar Ghosh	2010-2013	Dr. (Mrs.) Vijay Laxmi Saxena
1966-70	Prof. A. K. Saha	2013-2016	Dr. Nilangshu Bhusan Basu
1968-71	Prof. R.S. Mishra	2013-2016	Prof. Arun Kumar
1970-73	Prof. (Mrs.) Asima Chatterjee	2016-2019	Prof. Gangadhar
1971-74	Prof. Ram Chand Paul	2016-2019	Prof. Premendu P. Mathur

**TREASURERS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Year</i>	<i>Name</i>	<i>Year</i>	<i>Name</i>
1913-14	Dr. R. D. Hooper	1965-68	Prof. (Mrs.) Asima Chatterjee
1914-16	Dr. J. L. Simonsen	1968-71	Dr. S. M. Sircar
1916-19	Mr. R. D. Mehta	1971-74	Prof. A.K. Saha
1919-20	Mr. D. R. Bhandarkar	1974-76	Prof. A. K. Sharma
1920-21	Mr. W. W. K. Page	1976-77	Prof. A. K. Saha
1920-21	Mr. Oswald Martin	1977-80	Prof. D. N. Kundu
1921-22	Mr. A. H. Harley	1980-82	Prof. (Mrs.) A. Sharma
1922-23	Mr. W. R. C. Brierley	1982-85	Prof. D. K. Sinha
1923-24	Dr. C. V. Raman	1985-86	Prof. Asok Ghosh
1924-25	Dr. Baini Prashad	1986-88	Dr. S. C. Pakrashi
1925-26	Dr. S. L. Hora	1988-89	Prof. D. K. Sinha
	Dr. Baini Prashad	1989-91	Prof. D. P. Chakraborty
1930-31	Mr. K. C. Mahindra	1991-92	Dr. D. Basu
1931-32	Mr. Jas Insch	1992-94	Prof. S. P. Mukherjee
1932-34	Mr. K.C. Mahindra	1994-95	Dr. D. Basu
1934-37	Dr. S. L. Hora	1995-98	Dr. S. B. Mahato
1937-38	Rai Bahadur	1998-2000	Prof. A.B. Banerjee
	Dr. S. L. Hora	2000-2001	Prof. S. P. Mukherjee
1938-39	Mr. Percy Brown	2001-2003	Prof. B. P. Chatterjee
1939-44	Prof. J. N. Mukherjee	2003-2004	Prof. A. B. Banerjee
1944-49	Prof. P. Ray	2004-2006	Prof. Avijit Banerji
1949-52	Prof. K. N. Bagchi	2006-2007	Prof. A. B. Banerjee
1952-55	Prof. P. C. Mahalanabis	2009-2010	Prof. B. P. Chatterjee
1955-58	Shri B. K. Sarkar	2010-2013	Er. N.B. Basu
1958-60	Prof. B. C. Guha	2013-2016	Prof. Dhyendra Kumar
1960-65	Prof. P. K. Bose	2016-2019	Prof. Ranjit Kumar Verma

THE INDIAN SCIENCE CONGRESS ASSOCIATION

AUDIT REPORT & ACCOUNTS

31st March, 2017

Independent Auditors Report

To the members of
Indian Science Congress Association

Report on the Financial Statements:

We have audited the accompanying stand alone financial statements of Indian Science Congress Association which comprises of the Balance Sheet and the Endowment Fund thereof as on 31st March, 2017 and the Income & Expenditure Account of Grants (Plan & Non-Plan) and Endowment Fund and also the Receipts and Payments Account for the year ended on that date annexed thereto and a summary of the significant accounting policies and other explanatory information.

Management's Responsibility for the financial statements:

The Association's management is responsible for the preparation of these stand alone financial statements that give a true and fair view of the financial position, financial performance and closing cash/bank balances of the Association in accordance with the Accounting Standards and in accordance with the accounting principles generally accepted in India. This responsibility also includes the maintenance of adequate accounting records in accordance with the law for safeguarding the assets of the Association and for preventing and detecting frauds and other irregularities, selection and application of appropriate accounting policies, making judgments and estimates that are reasonable and prudent, and design, implementation and maintenance of internal financial controls that were operating effectively, for ensuring the accuracy and completeness of the accounting records relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditors Responsibility:

Our responsibility is to express an opinion on these stand alone financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. These standards require that we comply with the ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the stand alone financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the stand alone financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatements of the financial statements, whether due to fraud or error. In making those risks assessment, the auditor considers internal control relevant to the Association's preparations and fair presentation of the financial statements in order to design audit procedures that are appropriate to the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonable of the accounting estimates made by the management, as well as, evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.



Basis of Qualification:

1) a) Grants received from Government including grants for capital expenditure have been treated as income violating AS-12. Further, no reconciliation for difference between the total asset account and non recurring fund grant account could be made available.

b) Grant of Rs 1,23,79,000 which was received on 11.04.2017 has been accounted for as grant receivable in FY 2016-17. We have not been provided with any direct confirmation from DST.

2) Liabilities as per actuarial valuation have not been provided for in respect of Pension, Gratuity and Leave Encashment (Refer Note no 1,2 and 3 to the Notes to Accounts) thereby violating AS-15.

3) Interest on Term Deposit credited by bank are net of tax deducted at source. Interest on various funds have been taken at net of tax which should have been at gross value. The total income tax deducted at source from interest on different funds is Rs 10,11,501 which has not been accounted for resulting in understatement of fund and investment value by Rs 10,11,501. (refer to note no 9 to the Notes to Accounts)

Further non accounting of Income Tax deducted at source Rs 10,11,501 will amount to loss to the Association, since this is not shown as advance income tax in the books of accounts.

4) Income Tax Department has completed assessment for the A.Y. 2014-15 and has passed order dated 20/12/2016 demanding payment of Rs 1,35,75,590 towards income tax for that assessment year. Further, vide letter dated 20/12/2016 income tax department has initiated penalty proceedings u/s 271 of the Income Tax Act. The association has preferred appeal against this order. Contingent liability for Rs. 1,35,75,590 have been disclosed vide note no 10 to the Notes to accounts.

5) Contingent liability of Rs 1,81,46,810 for income tax demand under dispute/appeal for AY 2012-13 and AY 2013-14 have been disclosed refer note no 10 to the Notes to Accounts. However, current status of the same could not be made available to us.

6) Amount sent to various chapters during 2016-17 total Rs 1,01,19,812 for various purposes were charged off without any relation to the nature and actual expenses incurred. It was noticed that closing balance in cash/ bank to the extent of 8,90,939 (for 14 chapters whose accounts have been received) have not been accounted for during the year under audit. Further, income earned by the chapters to the extent of Rs. 4,82,781 (for 14 chapters) have not been accounted for in the books of ISCA. Moreover out of 23 chapters only 14 chapters have sent utilization report, balance not yet received. As such, we are unable to comment upon the same.

7) The association maintains various fund for different purposes. It is observed that in cases of reserve fund, building fund and life membership fund the fund balance does not match with the investment value for which no reconciliation is found to have been done.

8) Physical verification of the Fixed assets as on 31/03/2017 has not been done.

9) Building Fund which was created long back is being carried forward without any action or transaction.



Endowment Fund

1) Interest on Term Deposits of Endowment Fund has been accounted for on receipt basis and not on accrual basis.

2) Huge loss of Interest incurred from Endowment Fund as substantial part of it is kept in the savings account instead of Term Deposit with the bank. Out of total balance of Rs. 2,76,72,145 in Endowment Fund as on 31/03/2017, Rs. 1,77,54,955 is kept in Term Deposit and balance Rs. 99,17,190 is in savings account. The expenditure (award) in the financial year 2016-17 is 3,12,820 and in 2015-16 is 9,50,394.

Opinion

In our opinion and to the best of our information and according to the explanations given to us, financial statements, except for the possible effects stated on the basis of qualification give the information required by the law in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India;

- a) In the case of Balance Sheet of the state of affairs of the association as at 31st March, 2017;
- b) In the case of Income and Expenditure Account, of the surplus for the year ended on 31st March, 2017;
- c) In the case of Receipts and Payments Account, of the actual receipts and payments for the year ended on 31st March, 2017 and of the closing cash/Bank balances as on 31st March, 2017.

Report on Other Legal and Regulatory Requirements:

We report that:

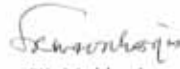
- i) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of our audit;
- ii) In our opinion, proper books of accounts as required by law have been kept by the Association so far as appears from the examination of those books;
- iii) The Balance Sheet, Income and Expenditure Account and the Receipts and Payments Account dealt with by this report are in agreement with the books of accounts;
- iv) In our opinion the aforesaid financial statement comply with the Accounting Standards issued by ICAI, wherever applicable, except for accounting of Government Grant (AS-12), Liabilities on Pension, Gratuity and Leave Encashment (AS-15);
- v) With respect to the matters to be included in the Auditor's Report, in our opinion and to the best of our information and according to the explanations given to us;
 - i. Association has disclosed the impact of pending litigation on its financial position in Note 10 under Notes to account.
 - ii. Association did not have any long term contracts including derivative contracts.
 - iii. There were no amounts which were required to be transferred to the Investor Education and Protection Fund by the Association.



- iv. The association has provided requisite disclosure in its stand alone financial statements as to holdings as well as dealings in specified Bank Notes during the period from 08.11.2016 to 31.12.2016 and these are in accordance with the books of accounts maintained by the Association refer to note no 11 to the Notes to Accounts.

For S.K. Bhattachariya & Co.
Chartered Accountants
FRN-301081E

Place - Kolkata
Date- 30.06.2017


SK Mukherjee
Mem.No- 017067



Basis of Qualification

Reply

1. a) Grants received from Government including grants for capital expenditure have been treated as income violation AS-12. Further, no reconciliation for difference between the total asset account and non recurring fund grant account could be made available.
b) Grant of Rs.1,23,79,000 which was received on 11.04.2017 has been accounted for as grant receivable in FY 2016-17. We have not been provided with any direct confirmation from DST.
2. Liabilities as per actuarial valuation have not been provided for in respect of Pension, Gratuity and Leave Encashment (Refer Note 1,2 and 2 to the Notes to Accounts) thereby violating AS-15.
3. Interest on Term Deposit credited by bank are net of tax deducted at source. Interest on various funds have been taken at net of tax which should have been at gross value. The total income tax deducted at source from interest on different funds is Rs.10,11,501 which has not been accounted for resulting in understatement of fund and investment value by Rs.10,11,501 (refer to note no 9 to the Notes to Accounts).
4. Income Tax Department has completed assessment for the A.Y.2014-15 and has passed order dated 20/12/2016 demanding payment of Rs.1,35,75,590 towards income tax for that assesment year.Further, vide letter dated 20.12.2016 income tax department has initiated penalty proceedings u/s 271 of the Income Tax Act. The association has preferred appeal against this order. Contigent liability for Rs.1,35,75,590 have been disclosed vide note no 10 to the Notes to Accounts .
5. Contingent Liability of Rs.1,81,46,810 for income tax demand under dispute/appeal for A.Y. 2012-13 and A.Y.2013-14 have been disclosed refer note no 10 to the Notes to Accounts. However, current status of the same could not be made available to us.

Transferring the amount equal to Fixed Assets has been practised since long and no objection was raised in the past. From next financial year the total Capital Grant will be Shown in the Balance Sheet.

As for the reconciliation of Non Recurring Fund Grant with that of Fixed Assets, necessary guidelines to be provided by the Audit in this regard as this practice was not followed in the past.

The Last installment of Grant for 2016-2017 was received on 11.04.2017, and hence it was treated as receivable in 2017-2018, as per sanction order from PFMS portal.

Excess Provision has already been made in case of Gratuity and Leave Encashment as per decision of Executive Committee. As for Pension Liability there is a total uncovered liability of Rs.302.39 lacs, for which the funding will be done phase wise every year in the budget. Moreover appropriate adjustments as per liability will be made as per decision of Competent Authority.

Form 16 issued by bank towards TDS on interest does not clearly reflect from which interest the TDS has been deducted. Moreover few TDS details were missing from the Certificate in all 4 quarters therefore proper accounting of Term Deposit interest could not be made.

The matter will be taken up with the Bank so that TDS accounting can be made as far as possible from the next accounting year.

As per legal advice 15% of the assessed tax has been deposited with Bank on 4/7/2017 for 2014-2015 and the Association is appealing for Stay Order in Hon'ble High Court against the Assessed Demand.

The Association has moved to Hon'ble High Court for stay order of the Assessed demand for A.Y.2012-13 and 2013-14.

6. Amount sent to various chapters during 2016-2017 total Rs.1,01,19,812 for various purpose were charged off without any relation to the nature and actual expenses incurred.It was noticed that closing balance in cash/bank to the extent of Rs.8,90,939 (for 14 chapters whose accounts have been received) have not been accounted for during the year under audit. Further, income earned by the chapters to the extent of Rs. 4,82,781 (for 14 chapters) have not been accounted for in the books of ISCA. Moreover out of 23 chapters only 14 chapters have sent utilization report, balance not yet received. As such, we are unable to comment upon the same.
7. The Association maintains various fund for different purpose.It is observed that in case of reserve fund, building fund and life membership subscription fund the fund balance does not match with the investment value for which no reconciliation is found to have been done.
8. Physical Verification of Fixed Assets as on 31.03.2017 has not been done.
9. Building Fund which was created long back is being carried forward without any action or transaction.
10. Interst on Term Deposits of Endowment Fund has been accounted for on receipt basis and not on accrual basis.
- 11.Huge Loss of interest incurred from Endowment Fund as substantial part of it is kept in the savings account instead of Term Deposit with the Bank. Out of total balance of Rs.2,76,72,145 in Endowment Fund as on 31.03.2017 Rs.1,77,54,955 is kept in Term Deposit and balance Rs.99,77,190 is in savings account. The expenditure (award) in the financial year 2016-2017 is Rs.3,12,820 and in 2015-2016 is Rs.9,50,394.

ISCA instituted chapters to propagate science temper among the mass. There are no permanent staff in the chapters. One member is nominated in each chapter to carry out the activities. No honorarium is provided to him/her for this work and no salary is paid to any staff. The amount provided by ISCA office to each chapter is to carry out the activities through out the year. Hence the question of earnings doesnot arise. Based on the amount provided by ISCA, necessary UC and Audited Statement are provided by the chapter.The Grant for next financial year is provided to chapters which has submitted the above.

For year 2016-17, 23 nos of chapters have submitted all documents till July, 2017 and grant for 2017-18 is being released to them accordingly.

As per discussion of Executive Committee the Accounting principal followed by ISCA is to transfer, Rs.50,000 from Membership Fund to Reserve Fund and 80% of the Life Membership collected during the year to Life Membership Fund after the audit is complete. Hence there was the difference in the above two funds at the time of Audit.

As for Building Fund, the difference in the Fund balance was from long past for reason unknown.

The Physical Verification Committee was formed in the Finance Committee Meeting held on 7th May,2017, and the matter is under process.

Will be placed in the next Finance and Establishment Committee Meeting for advice.

As per accounting principal followed by ISCA the interest on Term Deposit of Endowment Fund is accounted for in cash basis.

Will take the matter with the Banks to convert the unutilized balance lying in the savings bank account to convert in to flexi deposit wherever possible, or to make one endowment fund savings bank account and convert the unutilized balance in to One Term Deposit.

THE INDIAN SCIENCE CONGRESS ASSOCIATION

14, DR. BIRESH GUHA STREET, KOLKATA 700 017
Receipts and Payments Account as on 31st March, 2017

<u>R E C E I P T S</u>		<u>P A Y M E N T S</u>		<u>Total</u>	<u>Plan</u>	<u>Non - Plan</u>	<u>Particulars</u>	<u>Plan</u>	<u>Total</u>
Particulars	Non - Plan Rs	Plan Rs	Total Rs	Rs	Rs	Rs	Rs	Rs	Rs
Opening Cash & Bank Balances :						13,254,029.00	Establishment	679,772.00	13,933,801.00
Cash- in- hand	-	-	2,000.00			209,543.00	Ad-hoc Bonus		209,543.00
Cash at Bank : State Bank of India	-	-	30,858,495.46			384,523.00	Contribution to New Pension Scheme Fund		384,523.00
: Central Bank of India	-	-	5,413,591.86			4,179,314.00	Contribution to Staff Pension Fund		4,179,314.00
Membership Subscription (All categories)	3,110,616.00		3,110,616.00			86,160.84	Electricity Charges	611,803.00	611,803.00
Admission Fees	303,950.00		303,950.00			119,662.00	Telephone Charges	86,160.84	86,160.84
Life Membership Subscription	6,203,651.00		6,203,651.00			926.00	Transport Expenses	119,662.00	119,662.00
Government Grant	1,000,000.00	32,621,000.00	33,621,000.00			1,459,894.00	Municipal Taxes	926.00	926.00
Sale of Publications	10,210.00		10,210.00			407,787.00	Security Guard Expenses	1,459,894.00	1,459,894.00
Sale of Tender Paper	-		-			412,706.00	Cleaning & Building Maintenance	407,787.00	407,787.00
Journal Subscription (Non Members)		35,820.00	35,820.00			14,465.00	Leave Travel Concession	412,706.00	412,706.00
Misc Income	20,038.00		20,038.00			17,837.00	Insurance	14,465.00	14,465.00
Advance Realised :						7,000.00	Guest House Expenses	7,000.00	7,000.00
Festival	3,309,422.00		3,309,422.00			161,527.00	Advertisement	7,000.00	161,527.00
Guest House Lodging Charges	31,100.00		31,100.00			587,851.00	Post. & Stn. For Sec. Pres. & Convenors	161,527.00	587,851.00
Deposit Account	421,269.00		421,269.00			1,482,768.00	Upgrad. & Invro. Of Existing Facilities	587,851.00	1,482,768.00
Reimb of Service Chgs for ISCA Lecture Hall	131,350.00		131,350.00			540,972.00	General Printing	1,482,768.00	540,972.00
Establishment	22,902.00		22,902.00			545,802.00	Sessional Publications	540,972.00	545,802.00
Postage	78,100.00		78,100.00			1,678,840.00	Publication of Proceedings	545,802.00	545,802.00
Retention Money	252,576.00		252,576.00			155,218.00	Publication of Journal	1,678,840.00	1,678,840.00
						126,288.00	Re-imbursment of Children Edu Allow	126,288.00	126,288.00
						234,817.00	Retention Money	234,817.00	234,817.00
						1,826,597.00	Stationery Expenses	1,826,597.00	1,826,597.00
						221,269.00	Postage	221,269.00	221,269.00
						5,146,992.07	Contingency	5,146,992.07	5,146,992.07
						4,719,812.00	Travelling Expenses	4,719,812.00	4,719,812.00
						5,400,000.00	ISCA Chapters	5,400,000.00	5,400,000.00
						24,250.00	Expenses for Organising Seminars, Symposia	24,250.00	24,250.00
						221,775.00	Expenses for Official Languages	221,775.00	221,775.00
						-	Prepaid expenses	-	-
						4,931,307.00	Advance :	4,931,307.00	4,931,307.00
						76,500.00	General	76,500.00	76,500.00
						167,751.00	Festival	167,751.00	167,751.00
						80,000.00	Deposit	80,000.00	80,000.00
						7,200.00	Honorarium to ISCA Platinum Jubilee Lecturers	7,200.00	7,200.00
						80,000.00	Repair & Renovation of Building	80,000.00	80,000.00
						80,000.00	Poster Presentation Awards	80,000.00	80,000.00

Receipts and Payments Account as on 31st March, 2017

<u>R E C E I P T S</u>		<u>P A Y M E N T S</u>		<u>Total</u>
Particulars	Non-Plan Rs	Plan Rs	Non-Plan Rs	Plan Rs
				90,540.00
Modernization of ISCA Exhibition Board				-
Prepaid Upgradation of Improv of Existing Facility			12,918.00	-
				55,000.00
Screening and Evaluation of Paper				188,992.00
Legal Expenses				325,000.00
Young Scientists Awards				6,671.00
Young Scientists Travelling Expenses				11,500.00
Young Scientists Contingency				1,230,000.00
Sitting Fee				2,000.00
Levies to Staff Car Driver				28,274.00
Sessional Expenses				102,125.00
Operation & Maintenance of A.C Plant				2,500,000.00
Transfer to Life Membership Subscription Fund			139,241.00	1,070,627.00
Outstanding Liabilities				173,718.00
Main Building				2,762,995.00
Annex Building				514,477.00
AirConditioner of Lecture Hall				4,600,000.00
Asutosh Mookerjee Award Fund				17,100.00
Furniture & Fittings				98,424.00
Equipment				21,798.00
Prepaid Insurance				31,576.00
Xerox Machine				323,080.00
Cost of Gold Medals and Plaque				17,900.91
Bank Charges				100,000.00
General Fund				-
Closing Cash & Bank Balances :				-
Cash- in- hand				2,000.00
Cash at Bank : State Bank of India				14,678,813.84
: Central Bank of India				4,458,362.66
	14,817,084.00	32,734,920.00	33,516,880.75	31,170,034.07
				83,826,091.32

S. K. Bhattacharya & Co
Chartered Accountants
FRN 301081E

Sayan Kumar Mukharjee

(C.A.S.K.Mukharjee)

Partner

Membership No 017607

Ranjit Kumar Verma

Ranjit Kumar Verma
Treasurer

Gangadhar

Gangadhar
General Secretary (Membership Affairs)

Place: Kolkata

Date : 30/06/2017


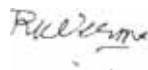

THE INDIAN SCIENCE CONGRESS ASSOCIATION
14, Dr Biresh Guha Street, Kolkata 700 017

Balance Sheet as at March 31st ,2017				
(Amount in Rs.)				
	Particulars	Note	As at March 31, 2017	As at March 31, 2016
I	LIABILITIES			
1	FUND			
(a)	Reserves and surplus- Fund	1	128,847,259.86	125,901,948.20
	- Grant	1a	22,479,136.67	21,544,801.67
2	Non - current liabilities:			
(a)	Long - term provisions	2	45,130,908.40	42,143,571.57
3	Current liabilities			
(a)	Other current liabilities	3	3,122,169.00	1,798,932.00
	Total		199,579,473.93	191,389,253.44
II	ASSETS			
1	Non - current assets:			
(a)	Fixed assets			
(i)	Tangible assets	4	21,554,763.09	21,890,802.54
(ia)	Capital work-in-progress - Tangible	4	3,627,919.00	61,493.00
(ii)	Intangible assets	4	-	-
(iia)	Capital work-in-progress - Intangible	4	-	-
(b)	Non - current investments	5	141,463,960.95	130,110,453.30
(c)	Long-term loans and advances	6	13,024,071.00	2,269,425.00
(d)	Other non-current assets	7	392,414.51	392,414.51
2	Current assets:			
(a)	Inventories	8	74,414.88	269,614.77
(b)	Cash and cash equivalents	9	19,143,116.50	36,277,565.32
(c)	Short-term loans and advances	10	30,600.00	34,200.00
(d)	Other current assets	11	268,214.00	83,285.00
	Total		199,579,473.93	191,389,253.44
	Significant accounting policies	17		
	Notes to accounts	18		
<p>The notes are an integral part of these financial statements. As per our attached report of even date</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>S.K.Bhattachariya & Co Chartered Accountants</p> <p><i>S.K. Mukherjee</i> (CA S.K.Mukherjee) Partner Membership No 017607</p> <p>Place: Kolkata Date : 30.06.2017</p> </div> <div style="width: 30%; text-align: center;"> <p><i>Gangadhar</i> Gangadhar General Secretary (Membership Affairs)</p> </div> <div style="width: 30%; text-align: center;"> <p><i>Ranjy Kumar Verma</i> Ranjy Kumar Verma Treasurer</p> </div> </div>				

THE INDIAN SCIENCE CONGRESS ASSOCIATION

14, Dr Biresh Guha Street, Kolkata 700017

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2017

Sr. No	Particulars	NOTE	2016-17	2015-16
			Rs	Rs
A.	<u>INCOME</u>			
1	Grant From Government	12	46,000,000.00	60,000,000.00
	Less: Trf to Asutosh Mookerjee Fund		(4,600,000.00)	(4,600,000.00)
	Less: Trf to Non Recurring Fund:		(934,335.00)	(780,702.00)
			40,465,665.00	54,619,298.00
2	Income From Other Activities	13	4,816,985.00	3,548,148.00
			45,282,650.00	58,167,446.00
B.	<u>EXPENDITURE</u>			
3	Expenses on Scientific Activities & Awards	14	17,573,086.07	16,073,047.00
4	Other Expenses	15	15,023,035.67	14,452,290.71
5	Employees' Benefit Expenses	16	19,352,458.00	18,864,911.00
6	Depreciation		1,232,195.42	1,369,911.17
				-
			53,180,775.16	50,760,159.88
	Excess of Income Over Expenditure		(7,898,125.16)	7,407,286.12
	Add : Surplus/(Deficit)Carried over from Last Year		24,832,954.53	17,425,668.41
			16,934,829.37	24,832,954.53
	Significant Accounting Policies	17		
	Notes on Account	18		
	In terms of our report of even date annexed hereto.			
	 Gangadhar General Secretary (Membership Affairs)		 Ranjit Kumar Verma Treasurer	
			For S.K.Bhattachariya & Co Chartered Accountants FRN 301081E	
			 (CA S.K.Mukherjee) Partner Membership No 017607	
	Place: Kolkata Date : 30.06.2017			

THE INDIAN SCIENCE CONGRESS ASSOCIATION
Notes to Financial Statement
For the year ended 31st March 2017

NOTE 1 Fund	Year Ended 31.03.2017 Amount Rs	Year Ended 31.03.2015 Amount Rs
Other Fund		
General Fund		
Opening Balance	1,304,471.15	1,800,669.81
Addition during the Year	3,048.10	3,801.34
Payment made during the year	-	500,000.00
Net Balance at the end of the year	1,307,519.25	1,304,471.15
Reserve Fund		
Opening Balance	5,841,704.41	5,249,998.82
Addition during the Year	608,578.83	591,705.59
Net Balance at the end of the year	6,450,283.24	5,841,704.41
Public Information Officer Fund		
Opening Balance	3,478.00	3,093.00
Addition during the Year	462.00	385.00
Net Balance at the end of the year	3,940.00	3,478.00
Sir Asutosh Mookerjee Fellowship Award Fund		
Opening Balance	4,949,261.00	1,120,888.00
Addition during the Year	4,762,722.00	4,748,373.00
Less Payments during the year	5,060,230.00	920,000.00
Net Balance at the end of the year	4,651,753.00	4,949,261.00
Total	12,413,495.49	12,098,914.56
Asset Fund		
Building Fund		
Opening Balance	977,161.06	928,026.46
Addition during the Year	54,588.96	49,134.60
Net Balance at the end of the year	1,031,750.02	977,161.06
House Building Advance Fund		
Opening Balance	936,929.53	877,383.83
Addition during the Year	60,276.46	59,545.70
Net Balance at the end of the year	997,205.99	936,929.53
ISCA Development Fund		
Opening Balance	10,932,876.59	10,217,045.16
Addition during the Year	680,061.44	715,831.43
Net Balance at the end of the year	11,612,938.03	10,932,876.59
Plan Construction of Building Fund		
Opening Balance	11,347,499.32	11,347,499.32
Addition during the Year	-	-
Net Balance at the end of the year	11,347,499.32	11,347,499.32
Total	24,989,393.36	24,194,466.50

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Life Membership Subscription Fund

Opening Balance	64,775,612.61	56,151,811.08
Addition during the Year	11,239,974.75	9,549,221.53
	76,015,587.36	65,701,032.61
less - payment during the year	1,506,045.72	925,420.00
Net Balance at the end of the year	74,509,541.64	64,775,612.61
	74,509,541.64	64,775,612.61

Credit Balance in Income Expenditure Account

	Rs	Rs
Opening Balance	24,832,954.53	17,425,668.41
Addition during the Year	(7,898,125.16)	7,407,286.12
Net Balance at the end of the year	16,934,829.37	24,832,954.53
	16,934,829.37	24,832,954.53
Total	128,847,259.86	125,901,948.20

NOTE 1a

Grant (Non Recurring fund grant)

Opening Balance	21,544,801.67	20,764,099.67
Addition during the Year	934,335.00	780,702.00
Net Balance at the end of the year	22,479,136.67	21,544,801.67

NOTE 2

Non - Current Liabilities

Long Term Provision

Gratuity Fund

Opening Balance	15,648,802.49	16,530,856.21
Addition during the Year	1,067,999.82	965,667.28
	16,716,802.31	17,496,523.49
Less Payments during the year	23,232.00	1,847,721.00
Add Transfer to Fund	-	-
Net Balance at the end of the year	16,693,570.31	15,648,802.49

Pension Fund

Opening Balance	15,026,600.96	14,998,283.43
Addition during the Year	5,348,092.15	4,886,268.53
	20,374,693.11	19,884,551.96
Less Payments during the year	4,181,722.00	4,857,951.00
Add Transfer to Fund	-	-
Net Balance at the end of the year	16,192,971.11	15,026,600.96

Leave Encashment Fund

Opening Balance	11,468,168.12	11,940,535.26
Addition during the Year	790,278.86	711,072.86
	12,258,446.98	12,651,608.12
Less Payments during the year	14,080.00	1,183,440.00
Add Transfer to Fund	-	-
Net Balance at the end of the year	12,244,366.98	11,468,168.12

Total

	45,130,908.40	42,143,571.57
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THE INDIAN SCIENCE CONGRESS ASSOCIATION

NOTE 3

Current liabilities

Outstanding Liabilities

Non Plan	178,733.00	139,245.00
Plan	2,360,820.00	1,338,086.00
	2,539,553.00	1,477,331.00

Deposits

As per Last Account	270,501.00	194,814.00
Add: Addition	421,269.52	75,687.00
Less: payment	237,142.52	
	454,628.00	270,501.00

Plan Retention Money

Opening	1,000.00	164,253.00
Addition during the year	126,288.00	-
Less payment during the year	-	163,253.00
Net Balance at the end of the year	127,288.00	1,000.00

Advance

Membership Subscription	700.00	50,100.00
	700.00	50,100.00

Total	3,122,169.00	1,798,932.00
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THE INDIAN SCIENCE CONGRESS ASSOCIATION

NOTE -4 Fixed Assets Schedule for 2016-2017

Particulars	Rate	Original Cost as on 01-04-16	Addition	Sale/ Adjustment	Total Cost as on 31-03-17	Depreciation upto 31-03-16	Depreciation for the year	Adjustment of Depr.	Total Depreciation as on 31-03-17	Net Block as on 31-03-17	Net Block as on 31-03-16	Depreciation up to 31-03-10 not considered
1) AGAINST BUILDING FUND												
Brain Building	10	256,964.25	173,716.00	-	432,682.25	43,515.76	17,416.85	-	60,932.63	371,749.62	215,448.47	192,152.83
Annexe Building	10	64,191.61	-	-	64,191.61	10,808.08	578.64	-	11,386.72	52,804.89	55,383.53	47,597.14
TOTAL		323,155.86	173,716.00	-	496,873.86	54,323.86	17,995.49	-	72,319.35	424,554.52	268,832.00	239,749.97
2) AGAINST PLAN GRANT FOR REFURBISHING OFFICE												
i) Construction of Additional Building with Refurbishing	10	2,775,466.82	-	-	2,775,466.82	1,076,202.43	57,613.41	-	1,133,815.84	1,641,650.96	1,699,264.37	1,123,130.28
ii) Tubewell	10	467,573.12	-	-	467,573.12	29,315.30	1,589.33	-	30,884.63	436,688.49	436,257.87	427,564.50
iii) Air Conditioning of Lecture Hall	10	3,230,090.74	514,477.00	-	3,744,567.74	243,807.52	60,108.05	-	303,915.57	3,440,652.18	2,996,483.23	2,832,222.50
TOTAL		6,473,130.68	514,477.00	-	6,987,607.68	1,349,125.26	119,290.79	-	1,468,416.04	5,519,191.64	5,124,005.42	4,377,917.28
3) AGAINST NON-PLAN GRANT NON-RECURRING FUND GRANT												
i) Fax Machine	10	51,979.20	-	-	51,979.20	1,215.54	65.06	-	1,280.59	50,698.60	50,763.66	50,113.08
ii) FAX Machine	10	172,920.00	-	-	172,920.00	39,914.49	3,927.14	-	43,841.63	129,078.37	135,005.51	93,734.15
TOTAL		224,899.20	-	-	224,899.20	41,130.03	3,992.19	-	45,122.22	179,776.97	185,769.17	143,847.23
4) AGAINST GARAGE BUILDING FUND GRANT												
Garage Building	10	10,701.95	-	-	10,701.95	2,447.68	114.96	-	2,562.64	8,439.31	8,554.27	7,404.66
TOTAL		10,701.95	-	-	10,701.95	2,447.68	114.96	-	2,562.64	8,439.31	8,554.27	7,404.66
5) AGAINST NON-PLAN GRANT FOR TYPEWRITER												
i) Typewriter	10	9,088.79	-	-	9,088.79	15.78	0.88	-	16.66	9,072.13	9,073.01	9,064.26
TOTAL		9,088.79	-	-	9,088.79	15.78	0.88	-	16.66	9,072.13	9,073.01	9,064.26
6) AGAINST PLAN NON-RECURRING FUND GRANT												
i) Typewriter	10	48,417.49	-	-	48,417.49	3,503.11	187.48	-	3,690.60	44,726.89	44,914.38	45,039.44
ii) Furniture	10	1,128,042.81	17,100.00	-	1,145,142.81	302,201.33	45,465.91	-	347,667.24	797,475.57	825,841.48	377,366.51
iii) Lecture Hall	10	90,726.00	-	-	90,726.00	42,117.17	3,730.24	-	45,847.41	44,878.59	48,608.83	11,306.40
iv) Guest House	10	140,334.04	-	-	140,334.04	61,653.04	3,311.22	-	65,164.26	75,169.78	78,481.00	45,368.79
v) Air Conditioning of Main Building	10	1,181,906.49	-	-	1,181,906.49	400,789.65	34,756.75	-	436,536.40	746,370.09	781,136.84	433,959.37
vi) Air Conditioning of Annex Building	10	193,300.00	-	-	193,300.00	53,311.03	6,992.27	-	60,303.30	132,996.70	136,788.97	69,666.25
vii) Duplicating Machine	10	17,748.90	-	-	17,748.90	833.45	44.59	-	878.04	16,870.86	16,915.45	16,469.58
viii) Fixture	10	35,755.75	-	-	35,755.75	2,494.62	133.57	-	2,628.19	33,127.56	33,281.13	31,925.46
ix) Electronic Typewriter	10	31,642.97	-	-	31,642.97	1,480.25	79.22	-	1,559.47	30,083.50	30,162.72	29,370.49
x) Xerox Machine	10	74,860.00	-	-	74,860.00	80,529.61	4,747.85	-	85,277.46	34,926.89	34,024.13	-
xi) Computer	60	908,048.99	35,200.00	-	943,248.99	441,950.71	21,499.79	-	463,450.50	480,698.49	466,998.28	442,547.90
xii) Projectors	10	52,600.00	-	-	52,600.00	12,642.53	3,995.75	-	16,638.28	35,961.71	39,957.46	101,335.90
xiii) Construction of Boundary Wall	10	101,656.95	-	-	101,656.95	10,526.70	563.56	-	11,090.26	90,566.69	91,130.25	85,464.63
xiv) Digitization of ISCA Old Proceedings	60	168,786.10	-	-	168,786.10	60,519.30	3.80	-	60,523.10	108,263.00	108,266.80	109,206.46
xv) Modernisation of ISCA Exhib Board	10	226,885.00	90,540.00	-	317,425.00	97,848.47	8,233.69	-	106,082.16	211,342.84	128,038.53	67,363.86
xvi) PA Systems	10	84,725.00	-	-	84,725.00	29,226.85	1,596.81	-	30,823.66	53,901.34	54,898.15	38,930.03
xvii) Email	60	13,500.00	-	-	13,500.00	13,699.00	-	-	13,699.00	1.00	1.00	-
xviii) Office Car	15	711,986.00	-	-	711,986.00	11,989.33	65,380.86	-	77,370.19	634,665.81	700,016.67	264,344.30
xix) Web Site	60	65,900.00	-	-	65,900.00	42,809.69	126.03	-	42,935.72	22,964.28	23,090.31	22,890.26
xx) Laptop	60	357,860.00	-	-	357,860.00	275,971.26	48,133.24	-	325,104.50	32,755.50	81,888.74	-
xxi) Software	60	588,247.00	-	-	588,247.00	598,246.00	-	-	598,246.00	1.00	1.00	-
TOTAL		6,232,949.49	179,416.00	-	6,412,365.49	2,504,539.35	249,952.65	-	2,754,491.99	3,657,873.50	3,726,410.12	2,189,429.63

(cont.)

THE INDIAN SCIENCE CONGRESS ASSOCIATION

NOTE - 4 Fixed Assets Schedule for 2016-2017 (cont.)

7)	AGAINST NON-RECURRING GRANT											
	FROM NATIONAL ACADEMY OF											
	AGRICULTURAL SCIENCE											
60	286,825.00	13,261.44	0.83	13,262.27	273,562.73	273,563.56	273,562.17					
60	50,500.00	2,355.88	0.15	2,356.03	48,143.97	48,144.12	48,143.87					
10	52,190.00	17,904.19	958.44	18,862.63	33,327.37	34,285.81	24,701.39					
	389,515.00	33,521.50	959.44	34,480.93	355,034.07	355,993.50	346,407.43					
60	4,779,304.46	850,840.54	2,094.92	852,935.46	3,926,369.00	3,926,463.92	3,924,972.39					
	4,779,304.46	850,840.54	2,094.92	852,935.46	3,926,369.00	3,926,463.92	3,924,972.39					
100	17,348.60	17,348.60	-	17,348.60	-	-	-					
10	52,750.90	34,357.85	1,639.31	36,197.15	16,553.75	16,393.05	-					
10	22,080.00	14,380.95	769.91	15,150.85	6,929.15	7,699.05	-					
	92,179.50	66,087.39	2,609.21	68,696.60	23,482.90	26,092.10	-					
9)	NON EARMARKED FIXED ASSETS											
	Furniture & Fixtures											
10	8,407.84	486.38	24.94	481.32	7,916.52	7,941.46	7,692.11					
10	8,153.95	5,310.93	284.30	5,595.23	2,556.72	2,843.02	-					
10	41,454.45	41,454.45	1,445.44	28,445.52	13,008.93	14,454.37	-					
10	23,228.54	15,129.12	809.94	15,939.06	7,289.48	8,099.42	-					
10	7,847.20	5,111.35	273.59	5,384.94	2,462.26	2,735.85	-					
10	238,533.00	68,724.00	7,252.64	72,336.71	206,253.13	166,196.29	-					
	327,624.98	387,095.34	22,252.72	147,607.29	239,489.04	202,270.41	7,692.11					
10)	100,000.00	52,757.05	2,824.30	55,581.35	44,416.65	47,242.95	19,000.00					
	100,000.00	52,757.05	2,824.30	55,581.35	44,416.65	47,242.95	19,000.00					
11)	PLAN EXPENDITURE FROM GRANT OF											
	UPGRADATION OF OFFICE AUTOMATION											
10	340,162.00	150,910.13	667.91	151,578.04	188,583.96	189,251.87	189,572.80					
10	37,110.00	20,041.30	1,072.93	21,114.22	15,995.78	17,088.70	6,339.45					
10	163,844.00	74,484.81	3,886.36	78,451.17	85,392.83	89,379.19	49,515.60					
10	105,000.00	10,603.28	9,439.67	20,042.95	84,957.05	94,396.72	132,829.52					
10	16,500.00	6,851.13	365.76	7,217.89	9,282.11	9,648.87	5,981.25					
	74,970.00	74,962.14	4.72	74,966.85	3.15	7.86	-					
60	737,586.00	337,832.78	15,538.35	353,371.13	384,214.87	399,753.21	377,236.62					
12)	BUILDING UNDER CONSTRUCTION											
10	7,921,163.13	3,345,141.78	457,602.14	3,802,743.92	4,118,419.21	4,576,021.35	-					
10	3,364,311.00	337,352.83	336,431.10	673,783.93	2,690,527.07	3,026,958.17	-					
10	10,000.00	4,637.06	536.29	5,173.35	4,826.65	5,392.94	-					
	11,295,474.13	3,687,131.67	794,569.53	4,481,701.20	6,813,772.92	7,608,342.46	-					
	30,995,610.04	31,891,766.01	1,232,195.42	10,337,002.95	21,554,765.09	21,890,802.54	11,642,723.98					

THE INDIAN SCIENCE CONGRESS ASSOCIATION

NOTE 5

Non - Current Investments

	Rs	Rs
General Fund		-
In Term Deposit	49,086.50	46,038.40
In Bank	-	-
	<u>49,086.50</u>	<u>46,038.40</u>
Reserve Fund		
In Term Deposit	6,220,709.77	5,668,465.94
In Bank	179,573.47	73,238.47
	<u>6,400,283.24</u>	<u>5,741,704.41</u>
Pension Fund		
In Term Deposit	12,360,882.11	11,379,431.96
In Bank	3,832,089.00	3,644,723.00
	<u>16,192,971.11</u>	<u>15,024,154.96</u>
Building Fund		
In Term Deposit	667,002.23	614,427.27
In Bank	41,591.93	39,577.93
	<u>708,594.16</u>	<u>654,005.20</u>
Life Membership Subscription Fund		
In Term Deposit	65,975,212.51	61,099,226.76
In Bank	5,937,979.13	3,609,285.85
	<u>71,913,191.64</u>	<u>64,708,512.61</u>
Gratuity Fund		
In Term Deposit	8,648,629.61	7,973,804.79
In Bank	8,044,940.70	7,674,997.70
	<u>16,693,570.31</u>	<u>15,648,802.49</u>
House Building Advance Fund		
In Term Deposit	685,930.90	640,724.44
In Bank	311,275.08	296,205.08
	<u>997,205.98</u>	<u>936,929.52</u>
ISCA Development Fund		
In Term Deposit	8,857,099.17	8,765,318.73
In Bank	2,755,838.86	2,167,557.86
	<u>11,612,938.03</u>	<u>10,932,876.59</u>
ISCA Leave Encashment Fund		
In Term Deposit	6,486,031.98	5,976,773.12
In Bank	5,758,335.00	5,491,395.00
	<u>12,244,366.98</u>	<u>11,468,168.12</u>
ISCA Asutosh Mookherjee Fund		
In Term Deposit	-	-
In Bank	4,651,753.00	4,949,261.00
	<u>4,651,753.00</u>	<u>4,949,261.00</u>
Total	<u>141,463,960.95</u>	<u>130,110,453.30</u>

THE INDIAN SCIENCE CONGRESS ASSOCIATION

NOTE 6

Long-Term loans and advances

Advance - General	637,891.00	2,254,421.00
Advance to Staff	7,180.00	15,004.00
Grant. Receivable from Govt.	12,379,000.00	-
	<u>13,024,071.00</u>	<u>2,269,425.00</u>

NOTE 7

Other non-current assets

Security Deposit for High Tension Line	376,914.51	376,914.51
Security Deposit with CESC Ltd	1,000.00	1,000.00
Security Deposit for Telex	10,000.00	10,000.00
Membership Receivable	4,500.00	4,500.00
	<u>392,414.51</u>	<u>392,414.51</u>

NOTE 8

Inventories

Stock of Printing Paper	144,054.75	269,614.77
Less: Provision for Damaged Stock of Paper	(69,639.87)	-
	<u>74,414.88</u>	<u>269,614.77</u>

NOTE 9

Cash and Cash Equivalents

Cash	2,000.00	2,000.00
Savings Bank	19,137,176.50	36,272,087.32
Public Information Officer with Bank	3,940.00	3,478.00
	<u>19,143,116.50</u>	<u>36,277,565.32</u>

NOTE 10

Short-term loans and advances

Festival Advance	30,600.00	34,200.00
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NOTE 11

Other current assets

Prepaid Expense	233,225.00	11,450.00
Prepaid Upgradation of Improv of Exis.Facilities	13,191.00	60,150.00
Prepaid Insurance	21,798.00	11,685.00
	<u>268,214.00</u>	<u>83,285.00</u>

THE INDIAN SCIENCE CONGRESS ASSOCIATION

INCOMES	2016-2017				2015-2016			
	2016-2017		2016-2017		2015-2016		2015-2016	
	Plan	Non Plan	Total	Rs	Plan	Non Plan	Total	Rs
NOTE-12								
Grant from Government	45,000,000.00	1,000,000.00	46,000,000.00	Rs	55,000,000.00	5,000,000.00	60,000,000.00	Rs
	45,000,000.00	1,000,000.00	46,000,000.00		55,000,000.00	5,000,000.00	60,000,000.00	
NOTE-13								
Income From Other Activities								
	Plan	Non Plan	Total	Rs	Plan	Non Plan	Total	Rs
Membership Subscription Received		3,160,116.00		Rs		2,337,682.00		Rs
Less: Transfer to Reserve Fund		50,000.00				50,000.00		
		3,110,116.00				2,287,682.00		
Add: Admission Fee		303,950.00				177,400.00		
Add: Transfer from Life Membership Subscription Fund		1,174,401.00				923,220.00		
		4,588,467.00	4,588,467.00			3,388,302.00	3,388,302.00	
Guest House Lodging Charges		31,100.00	31,100.00			32,200.00	32,200.00	
Reimbursement of Service Charges of ISCA Lecture Hall (Net)		131,350.00	131,350.00			80,600.00	80,600.00	
Misc Income		20,038.00	20,038.00			3,025.00	3,025.00	
SESSIONAL MEMBERSHIP SUBSCRIPTION		-	-			-	-	
Interest earned from computer loan		-	-			-	-	
Sale of Publications		10,210.00	10,210.00			-	-	
Plan Sale of Tender Papers		-	-		16,000.00	-	16,000.00	
Journal Subscription (Non Members)	35,820.00	-	35,820.00		28,021.00	-	28,021.00	
Interest Income (Accrued)								
General Fund		3,048.10	3,048.10			3,801.34	3,801.34	
Building Fund		54,588.96	54,588.96			49,134.60	49,134.60	
Gratuity Fund		1,067,999.82	1,067,999.82			965,667.28	965,667.28	
House Building Advance Fund		60,276.46	60,276.46			59,545.70	59,545.70	
ISCA Development Fund		680,061.44	680,061.44			715,831.43	715,831.43	
Life Membership Subscription		5,036,323.75	5,036,323.75			5,075,124.53	5,075,124.53	
Pension Fund		1,168,797.15	1,168,797.15			1,108,100.53	1,108,100.53	
Reserve Fund		558,578.83	558,578.83			541,705.59	541,705.59	
Public Information Officer Fund		-	180.00			-	125.00	
Leave Encashment Fund		-	790,278.86			-	711,072.86	
	35,820.00	14,201,298.37	14,237,118.37		44,021.00	12,734,235.86	12,778,256.86	
Less: Transfer to Fund (Interest Accrued but not due)		-	9,420,133.37			-	9,230,108.86	
	35,820.00	4,781,165.00	4,816,985.00		44,021.00	3,504,127.00	3,548,148.00	

THE INDIAN SCIENCE CONGRESS ASSOCIATION

EXPENDITURES	2016-2017				2015-2016				
	Plan	Non Plan	Total	Plan	Non Plan	Total	Plan	Non Plan	Total
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
NOTE-14									
EXPENSES ON SCIENTIFIC ACTIVITIES & AWARD									
Sessional Expenses	28,274.00	-	28,274.00	18,634.00	-	18,634.00	18,634.00	-	18,634.00
Travelling Expenses	5,109,837.07	-	5,109,837.07	4,594,935.00	-	4,594,935.00	4,594,935.00	-	4,594,935.00
Sitting fee	1,230,000.00	-	1,230,000.00	1,135,000.00	-	1,135,000.00	1,135,000.00	-	1,135,000.00
ISCA Chapters	4,719,812.00	-	4,719,812.00	4,400,000.00	-	4,400,000.00	4,400,000.00	-	4,400,000.00
Seminars, Symposia, Discussion & Lectures	5,400,000.00	-	5,400,000.00	4,462,170.00	-	4,462,170.00	4,462,170.00	-	4,462,170.00
Honorarium to ISCA Platinum Jubilee Lectures	80,000.00	-	80,000.00	120,000.00	-	120,000.00	120,000.00	-	120,000.00
Pt. Jawaharlal Nehru Birth Centenary Awards	-	-	-	-	-	-	-	-	-
Pt. Jawaharlal Nehru Prize	-	-	-	-	-	-	-	-	-
Poster Presentation Award	80,000.00	-	80,000.00	125,000.00	-	125,000.00	125,000.00	-	125,000.00
Cost of Gold Medals & Plaques	323,080.00	-	323,080.00	582,113.00	-	582,113.00	582,113.00	-	582,113.00
Membership Subscription	-	-	-	-	-	-	-	-	-
Binding Charges for Periodicals	-	-	-	-	-	-	-	-	-
101st Science Congress	-	-	-	-	-	-	-	-	-
Young Scientists:	-	-	-	-	-	-	-	-	-
Awards	325,000.00	-	325,000.00	275,000.00	-	275,000.00	275,000.00	-	275,000.00
Travelling Expenses	117,283.00	-	117,283.00	185,872.00	-	185,872.00	185,872.00	-	185,872.00
Publication	-	-	-	-	-	-	-	-	-
Stationery	-	-	-	-	-	-	-	-	-
Advertisement	-	-	-	45,000.00	-	45,000.00	45,000.00	-	45,000.00
Contingency	11,500.00	-	11,500.00	10,500.00	-	10,500.00	10,500.00	-	10,500.00
Expenses for Delegation to Meetings Abroad	93,300.00	-	93,300.00	38,823.00	-	38,823.00	38,823.00	-	38,823.00
Screening / evaluation of paper	55,000.00	-	55,000.00	80,000.00	-	80,000.00	80,000.00	-	80,000.00
Exhibition	-	-	-	-	-	-	-	-	-
	17,573,086.07	-	17,573,086.07	16,073,047.00	-	16,073,047.00	16,073,047.00	-	16,073,047.00
NOTE-15									
Other Expenses									
Telephone Expenses	-	98,239.84	98,239.84	-	86,129.00	86,129.00	-	86,129.00	86,129.00
Transport Expenses	-	119,662.00	119,662.00	-	46,802.00	46,802.00	-	46,802.00	46,802.00
Municipal Tax	-	926.00	926.00	-	181.00	181.00	-	181.00	181.00
	-	926.00	926.00	-	181.00	181.00	-	181.00	181.00

THE INDIAN SCIENCE CONGRESS ASSOCIATION

	2016-2017		2015-2016	
	Plan	Non Plan	Plan	Non Plan
	Rs	Rs	Rs	Rs
Security Guard Expenses	-	1,592,624.00	-	1,248,018.00
Audit Fees	-	34,500.00	-	34,500.00
Cleaning & Building Maintenance	-	341,896.00	-	334,031.00
Postage & Stationery for President	161,527.00	-	210,000.00	-
Advertisement	7,000.00	-	92,460.00	-
Electricity Charges	671,991.00	-	616,985.00	-
Upgradation & Improvement of Existing Facilities	568,613.00	-	377,634.00	-
General Printing	1,482,768.00	-	1,285,111.00	-
Guest House Expenses	-	17,837.00	-	19,752.00
Insurance	-	26,150.00	-	43,294.00
Bank Charges	-	17,900.91	-	14,023.25
Operation and Maintenance of A.C.Plant	-	111,900.00	-	106,561.00
Profit and loss on sale of fixed assets	-	29,679.03	-	202,704.48
Damaged Stock of Paper	69,639.87	-	69,639.87	-
OTHER OPERATION EXPENSES				
Stationery Expenses	237,017.00	-	149,535.00	-
Postage	4,229,314.00	-	3,995,621.00	-
Contingencies	232,842.00	-	124,810.50	-
Repair & Renovation of Building	4,700.00	-	24,000.00	-
Legal Expenses	188,992.00	-	85,497.00	-
Contingency Expenses for Meeting with Official Language	24,250.00	-	32,125.00	-
PUBLICATION EXPENSES				
Sessional Publication	540,972.00	-	679,012.00	-
Publication of Proceedings	645,671.00	-	679,012.00	-
Publication of Journals	3,440,864.00	-	2,875,311.00	-
Cost of Printing Paper	125,560.02	-	1,089,181.48	-
Focal Theme Publication	12,631,720.89	2,391,314.78	12,316,294.98	2,135,995.73
				14,452,290.71
2016-2017				
	Plan	Non Plan	Total	Total
	Rs	Rs	Rs	Rs
NOTE-16				
Employees' Benefit Expenses				
Establishment	690,122.00	13,319,051.00	14,009,173.00	14,250,233.00
Ad-hoc Bonus	-	209,543.00	209,543.00	69,080.00
Contribution to Staff New Pension Scheme	-	384,523.00	384,523.00	372,444.00
Contribution to Staff Gratuity Fund	-	-	-	-
Contribution to Staff Pension Fund	-	4,179,295.00	4,179,295.00	3,778,108.00
Contribution to Leave Encashment	-	-	-	-
Leave Travel Concession	-	412,706.00	412,706.00	218,115.00
Staff Liveries	-	2,000.00	2,000.00	2,000.00
Re-imbursment of Children Educational Allowance	-	155,218.00	155,218.00	174,931.00
	690,122.00	18,662,336.00	19,352,458.00	18,864,911.00

Schedule 1A

Reconciliation of Life Membership Subscription Fund with Investment and Bank

Life Membership Subscription Fund	<u>Rs</u>																																							
Opening Balance as on 01-04-2016	64,775,612.61																																							
Add: Subscription received during the year 2016-2017	<u>Rs</u> 6,203,651.00																																							
Add: Interest Accrued during the year as detailed below																																								
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>TDR NO</u></th> <th style="text-align: right;"><u>Rs</u></th> <th></th> </tr> </thead> <tbody> <tr> <td>33251159345</td> <td style="text-align: right;">270,687.80</td> <td></td> </tr> <tr> <td>33171568280</td> <td style="text-align: right;">92,035.74</td> <td></td> </tr> <tr> <td>10959318633</td> <td style="text-align: right;">451,129.52</td> <td></td> </tr> <tr> <td>10959318622</td> <td style="text-align: right;">517,046.96</td> <td></td> </tr> <tr> <td>33062685839</td> <td style="text-align: right;">500,902.82</td> <td></td> </tr> <tr> <td>34803843458</td> <td style="text-align: right;">171,025.30</td> <td></td> </tr> <tr> <td>30275144311</td> <td style="text-align: right;">175,526.29</td> <td></td> </tr> <tr> <td>32225475315</td> <td style="text-align: right;">299,429.35</td> <td></td> </tr> <tr> <td>32399434877</td> <td style="text-align: right;">257,301.79</td> <td></td> </tr> <tr> <td>32654087378</td> <td style="text-align: right;">854,220.28</td> <td></td> </tr> <tr> <td>32529725604</td> <td style="text-align: right;">462,628.39</td> <td></td> </tr> <tr> <td>34069506239</td> <td style="text-align: right;">824,051.51</td> <td style="text-align: right;">4,875,985.75</td> </tr> </tbody> </table>	<u>TDR NO</u>	<u>Rs</u>		33251159345	270,687.80		33171568280	92,035.74		10959318633	451,129.52		10959318622	517,046.96		33062685839	500,902.82		34803843458	171,025.30		30275144311	175,526.29		32225475315	299,429.35		32399434877	257,301.79		32654087378	854,220.28		32529725604	462,628.39		34069506239	824,051.51	4,875,985.75
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Savings Bank Interest 31/03/2017	160,338.00																																							
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Balance of Life Membership Fund (A)		<u><u>74,509,541.64</u></u>																																						

Life Membership Investment	<u>Rs</u>
Balance as per Last Account	61,099,226.76
Add: Interest Accrued during the year	

<u>TDR No</u>	<u>Rs</u>	
33251159345	270,687.80	
33171568280	92,035.74	
10959318633	451,129.52	
10959318622	517,046.96	
33062685839	500,902.82	
33529725604	171,025.30	
34803843458	175,526.29	
30275144311	299,429.35	
32225475315	257,301.79	
32399434877	854,220.28	
32654087378	462,628.39	
34069506239	824,051.51	4,875,985.75
		<u>4,875,985.75</u>
		(B) <u><u>65,975,212.51</u></u>

Life Membership Bank A/c State Bank of India

	<u>Rs</u>	<u>Rs</u>
Opening Balance 01-04-2016		3,609,285.85
Add: Transfer during the year		
	-	
10-03-16	2,500,000.00	
	2,500,000.00	
Savings Bank Interest		
31/03/2017	160,338.00	
		2,660,338.00
		6,269,623.85
Less: Payments made during the year		331,644.72

5,937,979.13 (C)

A =	B	+	C
<u>Rs</u>	<u>Rs</u>		<u>Rs</u>
74,509,541.64	65,975,212.51		5,937,979.13

Difference to be transferred in current year

2,596,350.00

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Note - 17

Significant Accounting Policies:

1. The accounts are prepared on Historical cost basis under going concern concept.
2. Income from Subscription, Government Grant and Interest on Investments are accounted for on accrual basis.
3. Subscriptions received for the month of February and March are taken as Pre-receipted subscription for the following year.
4. 20% of Life Membership subscription is treated as income in the year of receipt and balance 80% is kept in Life Membership Subscription Fund Account as per decision of the Finance Committee at its meeting held on 21.09.2013 followed by the approval of the Executive Committee meeting dated 04.10.2013
5. Transfer of ₹.50,000 instead of ₹.25,000 to Reserve Fund Account from General Fund Account as per decision of Finance Committee at its meeting held on 21.09.2013 followed by the approval of the Executive Committee meeting held on 04.10.2013.
6. Fixed Assets in the Balance Sheet are taken at cost less depreciation provided w.e.f. 2006-07 except “Plan Subscription of Journal” which is shown in the Balance Sheet at cost less depreciation as effective from 2010-11. Thus, arrears of depreciation on Fixed Assets (other than “Plan Subscription of Journal”) up to 31.03.2006 are reduced from the cost of Fixed Assets to arrive at w.d.v. for computation of depreciation on fixed asset for the current year at the rate prescribed by The Income Tax Act. 1961. In case of “Plan Subscription of Journal”, arrears of depreciation up to 31.03.2010 are reduced from the cost to arrive at w.d.v. for computation of depreciation.
7. In absence of any guidelines from the funding authorities, the bifurcation of expenses between Plan and Non-Plan Account is done on the basis of perception of the management.
8. Investment in Term Deposit other than Endowment are stated at carrying cost and accrued interest on term deposits are taken into the Fund Account. However, at the time of maturity of Term Deposits invested out of General Fund, the total interest accrued thereon is credited to Income and Expenditure Account by transferring from General Fund Account.

The Investments are mostly made for the period of 39 months since the interest for this period yields maximum rate of interest.
9. Interest on Investment in Term Deposit in Endowment Fund is accounted for in cash basis.
10. Guest House lodging charges and service charges for ISCA Lecture Hall has been accounted for in cash basis during the year.6

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Note-18

Notes on Accounts:

1. Gratuity Provision has not been made for the year ended 31.03.2017. Actuarial valuation is carried out to determine the liability on account of Gratuity as at 31.03.2017 and Liability as on per Valuation is Rs.67.06 lacs. (Excess Provision already made in the earlier years to the extent of Rs. 99.88 lacs)
2. Leave Encashment Provision has not been made for the year ended 31.03.2017. Actuarial valuation is carried out to determine the liability on account of Leave Encashment as at 31.03.2017 and the Liability as per Valuation is Rs.55.92 lacs. (Excess Provision already made in the earlier years to the extent of Rs.66.52 lacs)
3. Pension Provision has not been made for the year ended 31.03.2017. Actuarial valuation is carried out to determine the liability on account of Pension as at 31.03.2017 and the Liability as per Valuation as at 31.03.2017 is Rs.464.32 lacs leaving an uncovered liability to the extent of Rs. 302.39 lacs
4. "Plan subscription of Journal" although capitalized in 2008-09, no depreciation has been charged till 31.03.2010. However, during the current year ₹ 2,094.92 has been charged as depreciation in Income & Expenditure Account.
5. As practiced since 1991-92, with reference to Accounting Policy of ISCA (Para 2.3) ₹ 46,97,604/- being 80% of Life Membership subscription received during the current year has been retained in Life Membership Subscription Fund. A statement of Reconciliation of Life Membership Subscription Fund and Investment thereof till 31.03.2017 given in sub-schedule no. IA.
6. The basis of allocation of Non Recurring Fund Grant transferred as per the actual expenditure incurred on account of Capital Assets to Grant Fund Account.
7. The Plan and Non Plan Grant is received from DST under i) General, ii)Salary and iii) Capital without specifying sub heads. However, the reconciliation of the 3 major heads is mentioned above is made. The Association also submits the Utilization Certificate to DST on Quarterly basis.
8. Capital-Work in Progress for Rs.36,27,919/- consists of the following:-
 - a) Centenary Building Rs. 52,943/-
 - b) Guest House Rs.27,71,545/-
 - c) Fire Safety Work Rs. 8,03,431/-

Rs.36,27,919/-
=====

THE INDIAN SCIENCE CONGRESS ASSOCIATION

9. Income Tax Deducted at Source from Interest on Term Deposits with the Banks has not been accounted for due to non availability of required details from the Bank. The matter has been taken up with the Bank and necessary action will be taken on availability of proper documents.
10. Contingent Liability for the Income Tax Demand of Rs. 3,17,22,400/- (Assessment Year 2012-2013.Rs.32,40,200/-,Assessment Year 2013-2014..Rs.1,49,06,610/- and Assessment Year 2014-2015 ..Rs. 1,35,75,590/-) which are under appeal.
11. The Association did not hold or made any dealings in specified Bank Notes during the period 8th November,2016 to 30th December,2016.
12. Figures of the previous year have been re-grouped and re-arranged where necessary to make them comparable with the figures of the current year.

For S.K. Bhattachariya & Co.
Chartered Accountants
FRN - 301081E



CA. S.K Mukherjee
(Partner)
Membership. No. 017607



Gangadhar
General Secretary
(Membership Affairs)



Ranjit Kumar Verma
Treasurer

The Indian Science Congress Association

Place:Kolkata
Date :30.06.2017

THE INDIAN SCIENCE CONGRESS ASSOCIATION

BALANCE SHEET OF ENDOWMENT FUNDS AS AT 31ST MARCH,2017

Particulars	Note	Current Year Rs	Previous Year Rs
LIABILITIES			
Endowment Fund Balance	19	27,721,886.09	26,218,237.70
	Total:	<u>27,721,886.09</u>	<u>26,218,237.70</u>
PROPERTIES & ASSETS			
Endowment Investments	20	27,721,886.09	26,218,237.70
	Total:	<u>27,721,886.09</u>	<u>26,218,237.70</u>

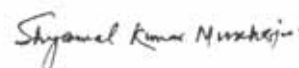
In terms of our report of even date annexed hereto.



Gangadhar
General Secretary
(Membership Affairs)



Ranjit Kumar Verma
Treasurer



For S.K.Bhattachariya & Co
Chartered Accountants
FRN 301081E

Place: Kolkata
Date : 30.06.2017

(C.A. S.K.Mukherjee)
Partner

Membership No 017607

THE INDIAN SCIENCE CONGRESS ASSOCIATION

INCOME & EXPENDITURE ACCOUNT OF ENDOWMENT FUND FOR THE YEAR ENDED 31ST MARCH, 2017

Particulars	Note	Current Year Rs	Previous Year Rs
Income	21	1,816,469	2,293,574
		<u>1,816,469</u>	<u>2,293,574</u>
Expenditure	21	312,821	950,394
		<u>312,821</u>	<u>950,394</u>
Excess of Income Over Expenditure		1,503,648	1,343,180
Less: Transferred to Respective Fund		<u>1,503,648</u>	<u>1,343,180</u>
		<u>-</u>	<u>-</u>

In terms of our report of even date annexed hereto.

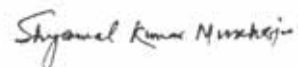


Gangadhar
General Secretary
(Membership Affairs)



Ranjit Kumar Verma
Treasurer

For S.K.Bhattachariya & Co
Chartered Accountants
FRN 301081E



(C.A. S.K.Mukherjee)
Partner

Place: Kolkata
Date : 30.06.2017

Membership No 017607

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Note 19

ENDOWMENT FUND BALANCES

Particulars	Balance as on 1-04-2016	Surplus(+)/ Deficit(-) of Respective Fund	Donation Received	Balance as on 31-03-2017
	Rs	Rs	Rs	Rs
B.C.Guha Memorial Fund	170,661.39	8,324.00	-	178,985.39
G.P.Chatterjee & Smt Suniti Chatterjee Fund	777,267.25	32,226.13	-	809,493.38
Prof Hiralal Chakraborty & Smt Toru Chakraborty	351,284.60	20,956.00	-	372,240.60
Prof K.P. Rode Memorial Lecture Fund	168,202.66	11,382.00	-	179,584.66
Pran Vohra Award Fund	667,406.13	45,645.00	-	713,051.13
Raj Kristo Dutta Memorial Award Fund	171,049.00	17,811.00	-	188,860.00
Prof Uma Kant Sinha Memorial Award Fund	338,434.81	16,852.00	-	355,286.81
Dr B.C.Deb Memorial Award Fund	635,161.39	35,532.00	-	670,693.39
Prof R.C. Saha Memorial Award Fund	185,839.42	(331.87)	-	185,507.55
Prof R.C. Mehrotra Commemoration Award Fund	295,123.74	21,253.00	-	316,376.74
Prof S.K.Mukherjee Commemoration Award Fund	295,642.45	16,193.00	-	311,835.45
Prof (Mrs) Anima Sen Memorial Award Fund	197,646.00	4,381.00	-	202,027.00
Dr (Mrs) Gouri Ganguly Award Fund	340,375.15	19,995.00	-	360,370.15
Prof S.S.Katiyar Commemoration Lecture Fund	671,662.00	2,543.00	-	674,205.00
ISCA Ward Fund	8,784,737.66	564,543.00	-	9,349,280.66
ICSA Vikram Sarabhai Memorial Award Fund	1,331,920.29	92,634.00	-	1,424,554.29
ISCA Excellence in Science & Technology Award Fund	3,206,341.00	215,260.00	-	3,421,601.00
ISCA Royalty Fund	676,493.50	41,409.00	-	717,902.50
ISCA Infosis Foundation Travel Award Fund	773,470.26	14,507.13	-	787,977.39
Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	2,564,913.00	118,650.00	-	2,683,563.00
Prof M.K.Singal Memorial Award Fund	1,166,585.00	73,219.00	-	1,239,804.00
Prof Archana Sharma Memorial Award Fund	619,312.00	35,452.00	-	654,764.00
Prof G.K.Manna Memorial Award Fund	683,848.00	35,566.00	-	719,414.00
Prof V.K.Puri Memorial Award Fund	641,621.00	58,820.00	-	700,441.00
Prof W.D.West Memorial Award	503,240.00	827.00	-	504,067.00
	26,218,237.70	1,503,648.39	-	27,721,886.09

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Note 20

ENDOWMENT FUND INVESTMENTS

Particulars	In Term Deposit	2016-2017 In Bank	Total	2015-2016
	Rs	Rs	Rs	Rs
B.C.Guha Memorial Fund	125,000.00	53,985.39	178,985.39	170,661.39
G.P.Chatterjee & Smt Suniti Chatterjee Fund	420,000.00	389,493.38	809,493.38	777,267.25
Prof Hiralal Chakraborty & Smt Toru Chakraborty	225,000.00	147,240.60	372,240.60	351,284.60
Prof K.P. Rode Memorial Lecture Fund	95,000.00	84,584.66	179,584.66	168,202.66
Pran Vohra Award Fund	425,000.00	288,051.13	713,051.13	667,406.13
Raj Kristo Dutta Memorial Award Fund	100,000.00	88,860.00	188,860.00	171,049.00
Prof Uma Kant Sinha Memorial Award Fund	185,000.00	170,286.81	355,286.81	338,434.81
Dr B.C.Deb Memorial Award Fund	379,955.00	290,738.39	670,693.39	635,161.39
Prof R.C. Saha Memorial Award Fund	120,000.00	65,507.55	185,507.55	185,839.42
Prof R.C. Mehrotra Commemoration Award Fund	230,000.00	86,376.74	316,376.74	295,123.74
Prof S.K.Mukherjee Commemoration Award Fund	150,000.00	161,835.45	311,835.45	295,642.45
Prof (Mrs) Anima Sen Memorial Award Fund	100,000.00	102,027.00	202,027.00	197,646.00
Dr (Mrs) Gouri Ganguly Award Fund	200,000.00	160,370.15	360,370.15	340,375.15
Prof S.S.Katiyar Commemoration Lecture Fund	500,000.00	174,205.00	674,205.00	671,662.00
ISCA Award Fund	6,400,000.00	2,949,280.66	9,349,280.66	8,784,737.66
ISCA Vikram Sarabhai Memorial Award Fund	800,000.00	624,554.29	1,424,554.29	1,331,920.29
ISCA Excellence in Science & Technology Award Fund	2,000,000.00	1,421,601.00	3,421,601.00	3,206,341.00
ISCA Royalty Fund	300,000.00	417,902.50	717,902.50	676,493.50
ISCA Infosis Foundation Travel Award Fund	500,000.00	287,977.39	787,977.39	773,470.26
Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	1,500,000.00	1,183,563.00	2,683,563.00	2,564,913.00
Prof M.K.Singal Memorial Award Fund	1,000,000.00	239,804.00	1,239,804.00	1,166,585.00
Prof Archana Sharma Memorial Award Fund	500,000.00	154,764.00	654,764.00	619,312.00
Prof G.K.Manna Memorial Award Fund	500,000.00	219,414.00	719,414.00	683,848.00
Prof V.K.Puri Memorial Award Fund	500,000.00	200,441.00	700,441.00	641,621.00
Prof W.D.West Memorial Award	500,000.00	4,067.00	504,067.00	503,240.00
	17,754,955.00	9,966,931.09	27,721,886.09	26,218,237.70

THE INDIAN SCIENCE CONGRESS ASSOCIATION

Note 21

	Particulars	2016-2017			2015-2016		
		Income	Expenditure	Surplus (+)/ Deficit(-) Transferred to Respective Fund	Income	Expenditure	Surplus (+)/ Deficit(-) Transferred to Respective Fund
1	B.C.Guha Memorial Fund	13,344.00	5,020.00	8,324.00	13,476.00	27,464.00	(13,988.00)
2	G.P.Chatterjee & Smt Suniti Chatterjee Fund	52,649.00	20,422.87	32,226.13	47,252.00	1,815.00	45,437.00
3	Prof Hirialal Chakraborty & Smt Toru Chakraborty	24,956.00	4,000.00	20,956.00	22,898.00	4,000.00	18,898.00
4	Prof K.P. Rode Memorial Lecture Fund	11,382.00	-	11,382.00	11,209.00	10,085.00	1,124.00
5	Pran Vohra Award Fund	45,645.00	-	45,645.00	43,532.00	26,890.00	16,642.00
6	Raj Kristo Dutta Memorial Award Fund	17,811.00	-	17,811.00	11,414.00	11,900.00	(486.00)
7	Prof Uma Kant Sinha Memorial Award Fund	22,872.00	6,020.00	16,852.00	20,654.00	5,690.00	14,964.00
8	Dr B.C.deb Memorial Award Fund	45,158.00	9,626.00	35,532.00	42,424.00	13,630.00	28,794.00
9	Prof R.C. Saha Memorial Award Fund	13,641.00	13,972.87	(331.87)	13,101.00	6,815.00	6,286.00
10	Prof R.C. Mehrotra Commemoration Award Fund	21,253.00	-	21,253.00	20,130.00	-	20,130.00
11	Prof S.K.Mukherjee Commemoration Award Fund	16,193.00	-	16,193.00	17,436.00	10,370.00	7,066.00
12	Prof (Mrs) Anima Sen Memorial Award Fund	11,401.00	7,020.00	4,381.00	12,032.00	85.00	11,947.00
13	Dr (Mrs) Gouri Ganguly Award Fund	19,995.00	-	19,995.00	20,788.00	5,000.00	15,788.00
14	Prof S.S.Katiyar Commemoration Lecture Fund	44,438.00	41,895.00	2,543.00	49,257.00	36,563.00	12,694.00
15	ISCA Award Fund	605,452.00	40,909.00	564,543.00	624,650.00	63,630.00	561,020.00
16	ISCA Vikram Sarabhai Memorial Award Fund	92,634.00	-	92,634.00	87,254.00	9,608.00	77,646.00
17	ISCA Excellence in Science & Technology Award Fund	215,260.00	-	215,260.00	217,064.00	-	217,064.00
18	ISCA Royalty Fund	41,409.00	-	41,409.00	39,833.00	85.00	39,748.00
19	ISCA Infos Foundation Travel Award Fund	55,100.00	40,592.87	14,507.13	58,499.00	57,121.00	1,378.00
20	Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	170,670.00	52,020.00	118,650.00	157,999.00	85.00	157,914.00
21	Prof M.K.Singal Memorial Award Fund	73,219.00	-	73,219.00	84,717.00	83,159.00	1,558.00
22	Prof Archana Sharma Memorial Award Fund	47,472.00	12,020.00	35,452.00	45,496.00	11,815.00	33,681.00
23	Prof G.K.Manna Memorial Award Fund	47,586.00	12,020.00	35,566.00	50,070.00	11,815.00	38,255.00
24	Prof V.K.Puri Memorial Award Fund	70,840.00	12,020.00	58,820.00	50,318.00	23,938.00	26,380.00
25	Prof W.D.West Memorial Award Fund	36,089.00	35,262.00	827.00	532,071.00	528,831.00	3,240.00
		1,816,469.00	312,820.61	1,503,648.39	2,293,574.00	950,394.00	1,343,180.00





THE INDIAN SCIENCE CONGRESS ASSOCIATION

(Professional Body under Department of Science & Technology
Ministry of Science & Technology, Government of India)
14, Dr. Bireh Guha Street, Kolkata- 700017, INDIA