

ANNUAL REPORT



2018-19





106th

INDIAN SCIENCE CONGRESS

3rd-7th January, 2019

Theme - "Future India: Science & Technology"



(Left to Right Side) First Row: Mrs. R Mittal (LS), Prof. P. P. Mathur (GS, SA), Prof. R. K. Verma (Treasurer), Prof. D. N. Rao, Dr. A K Saxena, Mr. A Mittal (Chancellor), Shri V Sampla (MOS), Shri V.P. Singh Badnore (Governor), Shri Narendra Modi (Prime Minister), Dr. Harsh Vardhan (Minister for S &T), Shri S S Arora, (MOS) Dr. M K Chakrabarti (GP.) Prof. D. K. Sinha, Prof K. C. Pandey, Prof. K. S. Rangappa (G. P. Elect), Prof. Gangadhar (GS, MA), Dr. M Gulati (LS).

(Left to Right Side) Second Row: Dr. A Sharma (DST. Secretary), Prof. S P Trivedi, Dr. M. G. Rangunathan, Prof. S. P. Singh, Prof. H. P. Tiwari, Prof. N Padha, Dr. S K Jain, Dr. S. Ramakrishna, Dr. A K Jain, Dr. (Mrs.) V. L. Saxena, Prof. M. B. Naidu, Prof. S. V. Kasmir Raja, Prof. B. P. Chatterjee, Prof. A Banerji, Dr. N. B. Basu, Dr. (Mrs.) N Chakrabarti, Dr. C. A. Vasuki, Prof. B. Reddya Naik, Prof. C. Muthamizhchelvan,

(Left to Right Side) Third Row: Dr. A. K. Pandey (AES), Dr. S Rakshit, Prof. K K Sharma, Dr. S J K Singh, Prof. J. P. Shrivastava, Dr. Swami Vedajinananda, Dr. I D Bhatt, Dr. R Raghunathrao Deshmukh, Prof. K. Byrappa, Prof. N Bairagi, Prof. P C Dhara, Dr. C K Panda, Prof. (Dr.) V J Fulari, Prof. (Mrs.) S Lavania, Dr. A. K. De (ES).

ANNUAL REPORT

2018-2019



THE INDIAN SCIENCE CONGRESS ASSOCIATION
14,DR. BIRESH GUHA STREET, KOLKATA -700 017

CONTENTS

PREFACE	Page
PROFILE OF THE INDIAN SCIENCE CONGRESS ASSOCIATION	1-2
THE HUNDREDTH SIXTH SESSION OF INDIAN SCIENCE CONGRESS, JALANDHAR	7
Inaugural Session	7
Children Science Congress	7
Women's Science Congress	8
Science Communicators' Meet (SCM)	9
Science Exhibition: Pride of India Expo- 106th ISC	10
Valedictory Session	10
Technical Programmes	12
Activities in Sections	16
ISCA Endowment Awards / Lectures	16
Major recommendations	18
OTHER ACTIVITIES	
ISCA Chapters	25-33
Celebration of Hindi Programme	34
Publications	34
OTHER ITEMS	
ISCA Meetings	34
ISCA Representations in other Organizations	34
Membership	36
Organizational Set-up	36

	Page
ACKNOWLEDGEMENTS	38
ANNEXURE –I	
Title of Addresses of Sectional Presidents of 106th ISC Session	43
ANNEXURE –II	
Platinum Jubilee Lectures of 106th ISC Session	45
ANNEXURE –III	
Titles of Symposia on specialized topics organised by the Sections of 106th Indian Science Congress	47
ANNEXURE –IV	
List of Young Scientist Awardees for the year 2018-2019	49
ANNEXURE –V	
List of Best Poster Presentation Awardees for the year 2018-2019	52
ANNEXURE –VI	
List of Infosys Foundation – ISCA Travel Awardees for the year 2018-2019	55
APPENDIX – I	
Members of the Council for 2018-2019	56
APPENDIX – II	
Members of the Council for 2019-2020	58
APPENDIX – III	
Personnel	60
APPENDIX – IV	
General Presidents of ISCA	61
APPENDIX – V	
General Secretaries of ISCA	69
APPENDIX – VI	
Treasurers of ISCA	70
AUDIT REPORT & ACCOUNTS	71-105

PREFACE

March 31, 2019 marked the completion of the 106th year of The Indian Science Congress Association. The 106th Indian Science Congress was held at Phagwara, Jalandhar under the auspices of the Lovely Professional University, Phagwara from January 3-7, 2019. Shri Narendra Modi, Hon'ble Prime Minister of India, inaugurated the Congress on 3rd January in the presence of Shri V. P. Singh Badnore, Hon'ble Governor of Punjab, Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences, Shri V. Sampla, Minister of State for Social Justice and Empowerment in India, and Shri S.S.Arora, Minister, Industries & Commerce. Shri Ashok Mittal, Chancellor, Lovely Professional University, Jalandhar welcome the members. Dr. Manoj Kumar Chakrabarti, General President of ISCA delivered his address on the Focal Theme "*Future India: Science and Technology*". The inaugural function was attended by large number of invitees including research scholars and scientists from all over the country.

Three Nobel laureates, senior officials of the Union and State government and Scientists from the country and abroad also attended the Inaugural function. 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 (Posters/Oral) were also organised in different sections.

Rashtriya Kishore Vaigyanik Sammelan (Children Science Congress) was held on January 4-6, 2019 with support from NCSTC, DST, New Delhi, where projects nominated by Department of Science & Technology, National Council of Educational Research and Training and Punjab State Council for Science & Technology were displayed. Infosys ISCA Travel Awards were presented to the school children. A large number of students from the neighborhood schools and colleges visited and participated in the Children Science Congress.

Apart from this the 12th Rashtriya Vigyan Sancharak Sammelan (Science Communicators' Meet) was organised with support from NCSTC, DST, New Delhi, where Science Communicators selected from different Chapters of ISCA presented papers.

The 8th Women Science Congress was organised on the theme "*Future India: Science and Technology*" with support from KIRAN, DST, New Delhi, where women scientists from all over the country participated.

The Valedictory, marking the end of the event of 106th Indian Science Congress, was held on 7th January 2019. The dignitaries for the function were Shri Ashok Mittal, Hon'ble Chancellor of Lovely Professional University, Prof K.S.Rangappa, General President. (Elect), Dr. Ashok Kumar Saxena, Former General President, ISCA. On this occasion, Young Scientist Awards and Best Poster Awards were also presented. Mrs. Rashmi Mittal, Pro Chancellor LPU, Prof. Gangadhar, General Secretary (Membership Affairs), ISCA, and Prof. P.P. Mathur, General Secretary (Scientific Activities) and Dr Amit Krishna De, Executive Secretary, ISCA were also present. Dr. Manoj Kumar

Chakrabarti, General President, ISCA delivered Presidential address. In the end, the Vigyan Jyot was ceremoniously handed over by Dr. Manoj Kumar Chakrabarti to Prof. K.S. Rangappa, General President (Elect), with the message of further spreading the importance of science amongst the students and taking the Vigyan Jyot to the venue of 107th ISC.

Twenty seven ISCA Chapters continued their activities during the year under report by organising seminars on Focal Theme of 106th ISC, symposia, lectures, quiz contests, etc. Among various activities, the Chapters observed National Science Day, World Environment Day, Yoga Day, World Wetland Day, Earth Day, National Technology Day, World Health Day, World AIDS Day, National Children Day, Teachers Day, etc.

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.

Date: 12.09.2019



(Dr. S.Ramakrishna)
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 fifty thousand members – who participate in fourteen different sections of the Congress. The number of papers communicated for presentation has risen to more than two thousand. 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.



**DR. MANOJ KUMAR CHAKRABARTI, GENERAL
PRESIDENT, 106TH INDIAN SCIENCE CONGRESS,
JALANDHAR**

Dr. Manoj Kumar Chakrabarti, currently an ICMR Emeritus Medical Scientist is highly reputed for his research contributions. He served as Scientist G and Director (I/C), National Institute of Cholera & Enteric Diseases (NICED), one of the leading national biomedical research institutes especially in enteric diseases in India where he provided dynamic leadership to 15 research groups conducting translational research programmes to discover and understand the molecular mechanism involved in enteric diseases including diarrhea.

In his 34 years with ICMR as Scientist in various capacities, Dr. Chakrabarti made several pivotal contributions. One of his work lead to the development of a cheap and efficacious candidate vaccine against shigellosis whose potential has been acknowledged globally. For his deep expertise in this area he was invited to write an article on vaccine development in *Methods in Molecular Biology*, 2016 (Springer publication, New York, USA). His research on further development of ORS has made an impact in the field. Dr. Chakrabarti's work on potassium channel is of therapeutic value . Moreover, his work has a great potential on the possibility of development of a non-hemolytic variant of TDH and a protease as novel agent in the therapy of human colorectal cancer in future. Dr Chakrabarti's outstanding contribution to science in general and diarrhoeal diseases in particular has been recognized by his being elected to the Fellowship of the National Academy of Science (FNASc.), India, and West Bengal Academy of Science and Technology (FAScT).

Beside being an outstanding researcher, Dr.Chakrabarti is deeply involved in human resource development. He has supervised several students in their Ph.D theses. Dr. Chakrabarti did post doctoral research at the university of Kansas USA and also worked at Nagasaki University, Japan as visiting Scientist. He is associated with different universities as guest faculty, member UG and PG board of studies, Ph.D committee etc. He was the General Secretary of Indian Science Congress Association, 2010-13. He served as a member of several selection committees, advisory bodies, and research grant review panel and continues to be called upon by many govt. and private foundations to evaluate the work of others. Because of his contribution in the area of enteric diseases he was elected as the President, Section of Physiology of the Indian Science Congress Association 2001-2002 and has been invited to serve as a reviewer of different National and international journals. Dr Chakrabarti is Area Editor of Medical Science Section of *Every man`s Science*. He published more than 90 original papers in the area of his research as well as book chapters and review articles. He has two national and one international patent.

In short, Dr. Chakrabarti is believed by his peers to be a pioneer and national leader in the study of intestinal cell and molecular biology and its relevance for diarrhea and enteric diseases. He has received awards from different societies including platinum jubilee lecture of ISCA.



Shri.Narendra Modi, Hon'ble Prime Minister and Dr.Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences along with other Dignitaries.

Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences, presenting awards to ISCA Awardees.



Inauguration of Children Science Congress with two Nobel Laureates.

Inauguration of Science Communicators' Meet.





Inauguration of Women's Science Congress.

Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences, inaugurating Exhibition.



Handing over of Vigyan Jyot by Dr. Manoj Kumar Chakrabarti, General President, ISCA to Prof. K.S.Rangappa, General President Elect, ISCA during Valedictory Programme



THE HUNDREDTH SIXTH SESSION OF INDIAN SCIENCE CONGRESS, PHAGWARA, JALANDHAR : A BRIEF REPORT

INAUGURAL SESSION

The 106th Indian Science Congress was held at Phagwara, Jalandhar under the auspices of the Lovely Professional University, Phagwara from January 3-7, 2019. Shri Narendra Modi, Hon'ble Prime Minister of India, inaugurated the Congress on 3rd January in the presence of Shri V. P. Singh Badnore, Hon'ble Governor of Punjab, Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences, Shri V. Sampla, Minister of State for Social Justice and Empowerment in India, Shri S.S.Arora (MOS), Govt. of Punjab, Shri Ashok Mittal, Chancellor, Lovely Professional University, Phagwara. Dr. Manoj Kumar Chakrabarti, General President of ISCA delivered his address on the Focal Theme "*Future India: Science and Technology*".


After the Hon'ble Prime Minister left the dais, ISCA awards were presented to eminent scientists by Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Environment, Forest and Climate Change and Ministry of Earth Sciences. The inaugural session was attended by a large number of invitees including three nobel laureates, secretaries and chairman of different ministries of Government of India, foreign scientists, distinguished scientists, research scholars, students and scientists from all over the country. Senior officials of the Union and State government also attended the inaugural function.

Inaugural session was followed by the interaction of the Hon'ble Prime Minister of India with the three Nobel Laureates in presence of Hon'ble Minister of Science & Technology, Government of India, Dr. Harsh Vardhan, Secretary, DST, Chancellor and Vice Chancellor, LPU and General President, ISCA.

RASHTRIYA KISHORE VAIGYANIK SAMMELAN (CHILDREN SCIENCE CONGRESS)

Rashtriya Kishore Vaigyanik Sammelan (Children Science Congress) hosted jointly by Indian Science Congress Association and Lovely Professional University, Punjab with the objective of infusing and inspiring scientific temperament in the public and most importantly in the next generation was held on January 4-6, 2019. The event was supported by National Council for Science and Technology Communication, Department of Science & Technology, Government of India.

The event was inaugurated on 4th January 2019 by Hon'ble Prof. Duncan Haldane, Nobel Laureate in Physics & Professor at Princeton University, USA along with Prof. Avram Hershko, Nobel Laureate in Chemistry and Distinguished Professor at Technion, Israel. Dr. Nisha Mendiratta, Head, National Council for Science and Technology Communication, Department of Science and Technology along with Sh. Avinash Rai Khanna, Vice Chairman, Indian Red Cross Society and Vice President of Bhartiya Janata Party were the Guest of Honour. Shri. Ashok Mittal, Chancellor,



Lovely Professional University delivered welcome speech and Dr. Manoj Kumar Chakrabarti, General President, ISCA delivered Presidential address. Prof. P.P. Mathur, General Secretary (Scientific Activities) ISCA; Prof. Gangadhar, General Secretary (Membership Affairs) ISCA; Dr. Amit Krishna De, Executive Secretary, ISCA graced the ceremony with their presence. The Souvenir book containing the abstracts of the shortlisted projects was released on this occasion. Infosys ISCA Travel Awards were presented to the school children. The inauguration ceremony was attended by a huge gathering of more than 2500 young scientists, media personnel, faculty & students.

Project Exhibition of Rashtriya Kishore Vaigyanik Sammelan was also inaugurated by the esteemed guests on the same day. 110 Science projects (60 nominated by Department of Science & Technology, 15 by National Council of Educational Research and Training and 35 by Punjab State Council for Science & Technology) were put on display in the project exhibition. Students from more than 300 schools of Punjab and neighboring states also visited Project Exhibition and experienced the work done by these students.


Meet the Scientist session was also held on 4th and 5th January during which the participants of Rashtriya Kishore Vaigyanik Sammelan were able to have a great insight into how science has evolved over a period of time and what holds the future. Participants also visited Pushpa Gujral Science City on 6th January 2019.

The three-day event was culminated at the Valedictory Session held on January 06, 2019. On the occasion, Chief Guest was Shri. Ashok Mittal, Chancellor, Lovely Professional University and Chairman, Organising Committee, 106th Indian Science Congress. Guest of Honor was Shri. Rajinder Singh, Scientist D, NCSTC Division, Department of Science and Technology. Dr. Manoj Kumar Chakrabarti delivered Presidential Address. Dr Arun Kumar Pandey, Assistant Executive Secretary, ISCA concluded the session by delivering Vote of Thanks. The event was widely covered by all prominent media in the country.

WOMEN'S SCIENCE CONGRESS

The 8th Women Science Congress was inaugurated on 5th January, 2019 by Smt. Smirti Irani, Honorable Union Minister of Textiles in presence of Shri Ashok Mittal, Chancellor, Lovely Professional University; Prof. P.P. Mathur, General Secretary (Scientific Activities) ISCA; Prof. Gangadhar, General Secretary (Membership Affairs) ISCA. Prof. Vijay Laxmi Saxena, Former General Secretary, ISCA, and Dr Namita, KIRAN, DST as Guest of Honours. Dr. Manoj Kumar Chakrabarti, General President, ISCA delivered the Presidential Address.

Inauguration was followed by 14 invited lectures from accomplished women leaders and scientists and 62 contributed papers were presented in the form of posters. Invited lectures were given by Dr. Namita, Dr. Namrata and Dr. Rupashree from Department of Science and Technology and Dr. Pratiba Nair from USIEF, Ms. Suja Warrior from Infosys, Ms. Neelima Ketan from Vedanta, Ms. Sushama Oza, Director of Strategy and Sustainability, Adani Foundation, Dr. Neelima Gupta, Vice Chancellor of CSJM University, Dr. Shakuntala Das from Potsdam State University



of Newyork, Dr.Sagarika Biswas Sr.Principal Scientist from CSIR-Institute of Genomics and Integrative Biology and Dr. Asha Chaubey, Principal Scientist from Fermentation Technology Division of CSIR- Indian Institute of Integrative Medicine, Dr.S.Geetha from TN Agricultural University, Dr.V.Kalarani from Sri Padmavathi Mahila Visvavidyalayam and Dr.Suseela Kanduri from Synergy solutions .

The Valedictory session was by graced an inspiring deliberation of Shri Prakash Javadekar, Honorable HRD Minister Textiles. Shri. Ashok Mittal, Chancellor, Lovely Professional University and Dr. Manoj Kumar Chakrabarti, General President, ISCA delivered welcome and presidential address respectively. Prof. P.P. Mathur, General Secretary (Scientific Activities) ISCA; Prof. Gangadhar, General Secretary (Membership Affairs) ISCA and Dr Namita, KIRAN, DST. were also present at the session. Dr G Geetha, Convener delivered Vote of Thanks.


SCIENCE COMMUNICATORS' MEET

12th Vigyan Sancharak Sammelan (Science Communicators' Meet) , jointly hosted by Indian Science Congress Association and Lovely Professional University, Punjab with an objective of communicating the basic concepts of science amongst the common people was held on January 5-6, 2019. The event was supported by NCSTC, Department of Science & Technology, Government of India

The meet was inaugurated by Shri Ravi Shankar Prasad, Union Minister for Electronics & Information Technology and for Law & Justice on January 5, 2019 in presence of Dr. Nisha Mendiratta, Head & Advisor, NCSTC, Department of Science & Technology; Shri Ashok Mittal, Chancellor, Lovely Professional University; Shri Shwait Malik, Member of Parliament, Rajya Sabha and Shri SomParkash, MLA, Phagwara, Prof. P.P. Mathur, General Secretary (Scientific Activities) ISCA, Prof. Gangadhar, General Secretary (Membership Affairs) ISCA. Dr. Manoj Kumar Chakrabarti, General President, ISCA presided over the function. The programme was attended by a huge gathering of more than 2500 scientists, science communicators, media personnel, faculty & students

Under the broad Umbrella of "Taking Science to the People", very interesting and thought provoking invited talks were delivered by Mr. Pallava Bagla, Photo Journalist & Science Editor, New Delhi Television- NDTV & Correspondent Science Magazine, Prof. Basab Chaudhuri, Vice Chancellor, West Bengal State University, Barasat, West Bengal, Dr. Manoj Kumar Patariya, Director, CSIR-National Institute of Science Communication and Information Resources (NISCAIR), and Dr. V. Ramgopal Rao, Director, Indian Institute of Technology, Delhi.

33 Science Communicators selected by Indian Science Congress Association from the chapters all over India made the presentations of their contemporary research work in four Technical Sessions spread over two days. In total 18 oral presentations, 15 poster presentations were held on contemporary issues in Science & Technology communication.



The Valedictory Session was held on January 06, 2019 in presence of Shri. Ashok Mittal, Chancellor, Lovely Professional University; Dr. Manoj Kumar Chakrabarti, General President, ISCA. Prof. P.P. Mathur, General Secretary (Scientific Activities) ISCA, Shri. Rajinder Singh, Scientist D, NCSTC Division, Department of Science and Technology. Dr. Manoj Kumar Chakrabarti, General President, ISCA presided over the function. The Meet concluded with Vote of Thanks by Dr. Amit Krishna De, Executive Secretary, ISCA.

SCIENCE EXHIBITION: PRIDE OF INDIA EXPO

“Pride of India” (PoI) Expo, is the Mega Science Exhibition showcasing the cutting-edge technologies, leading scientific products and services, path breaking R&D initiatives, schemes and achievements of India’s foremost and leading public and private sectors, central and state government departments, research labs, educational institutions, corporate, defence etc. Apart from thousands of national and international delegates, prominent R&D heads, policy makers, bureaucrats, senior scientists, ICT & allied industry leaders, technocrats & academicians, innovators, entrepreneurs, social activists, top executives from corporate & industry, the PoI Expo was visited by thousands of fervent students and general public during 3 to 7 January 2019.


The PoI Expo was spread over an area of approx 20,000 sqm with the participation of 150 organizations. The expo was a display of cutting-edge technologies, leading scientific products and services, path breaking R&D initiatives and achievements of India’s foremost and leading public and private sector, government departments, PSUs, research labs, educational institutions, corporate, defence etc. Shri V. P. Singh Badnore, Hon’ble Governor of Punjab and Dr. Harsh Vardhan, Hon’ble Union Minister for Science and Technology and Earth Sciences inaugurated the Expo in presence of Shri Ashok Mittal, Chancellor, LPU and Dr. Manoj Kumar Chakrabarti, General President, ISCA.

Vigyan Jyot : Flame of Knowledge, is a novel initiative to popularize science and encourage it as a career amongst the youth, thus preparing scientists and innovators of tomorrow. Vigyan Jyot was ceremoniously received at the sprawling campus of LPU by Dr Manoj Kumar Chakrabarti, General President ISCA, Dr Ashok Mittal, Chancellor LPU, Dr. Ashok Saxena Former General President and other dignitaries on 02 January 2019. Vigyan Jyot was lit at the venue of PoI Expo at the hands of Shri V. P. Singh Badnore, Hon’ble Governor of Punjab and Dr. Harsh Vardhan, Hon’ble Union Minister for Science and Technology and Earth Sciences and was kept lit throughout the 5 days of the event inspiring thousands of students.

On the concluding day of ISC, during the Valedictory Function, the Vigyan Jyot was ceremoniously handed over by Dr. Manoj Kumar Chakrabarty to Prof. K. S. Rangappa , General President Elect with the message of further spreading the importance of science amongst the students and taking the Vigyan Jyot to the venue of 107th ISC.

VALEDICTORY SESSION

The Valedictory marking the end of the event of 106th Indian Science Congress was held on 7th January 2019. The dignitaries for the function were Shri Ashok Mittal, Hon’ble Chancellor of



Lovely Professional University, , Prof K.S.Rangappa ,General President (Elect), Dr. Ashok Kumar Saxena, Former General President, ISCA. On this occasion, Young Scientist Awards and Best Poster Awards were also presented. Mrs. Rashmi Mittal, Pro Chancellor LPU, Prof. Gangadhar, General Secretary (Membership Affiars), ISCA, and Prof. P.P. Mathur, General Secretary (Scientific Activities) and Dr Amit Krishna De, Executive Secretary, ISCA were also present. Dr.Manoj Kumar Chakrabarti ,General President, ISCA delivered Presidential address.

The Vigyan Jyot was ceremoniously handed over by Dr. Manoj Kumar Chakrabarti to Prof. K.S. Rangappa, with the message of further spreading the importance of science amongst the students and taking the Vigyan Jyot to the venue of 107th ISC.



TECHNICAL PROGRAMMES

PLENARY SESSIONS:

LECTURE OF NOBEL LAUREATES

Prof. Thomas Sudoph	Why we need basic research for precision medicine: the neuroscience example
Prof. Avram Hershko	The ubiquitin system for protein degradation: roles in health and disease
Prof. Duncan M Haldane	Topological Quantum Matter, Entanglement, and a “Second quantum Revolution

PLENARY ON THE ACHIEVEMENT OF AGRICULTURAL RESEARCH IN INDIA

Dr. J.K. Jena	New vistas in aquaculture development in India for income, employment and nutritional security
Dr Ashok K. Patra	Soil, food security and human health
Prof. Ramesh Kanwar	Climate change and its impact on water security and food security: Policy issues.
Dr. O.P. Yadav	Agricultural development at arid zone area

PLENARY ON RESTLESS TIDE: CONTINUING CHALLENGE OF INFECTIOUS DISEASES IN INDIA

Dr. Amit Ghosh	Restless tide: continuing challenge of infectious diseases in India
Prof. Arunaloke Chakrabarti	Stop neglecting fungi
Dr. Hemanta K. Majumder	Leishmania, an old enemy: a “mania” of three decades

PLENARY ON APPLIED CATALYTIC CONVERSIONS FOR SUSTAINABLE CHEMISTRY AND THERAPEUTICS.

Prof. Ananda Singh	Functionalization of ii-systems for developing new routes to heterocycles and fluorinated molecules
Prof. Jitendra A. Bera	Double dehydrogenation of primary amines to nitriles
Prof. S S V Ramasastry	New approaches for the construction of fused cyclopentanes
Prof. Sandeep Verma	Catalyzed release of therapeutic gases in neurons

PLENARY ON DIABETES

Prof. Satinath Mukhopadhyay	An introduction to Diabetes
Prof. Richard I.G. Holt	The emerging ultra-long acting basal insulin: translating clinical trials into real-world evidence
Prof. Loretta Vileikyte Boulton	Diabetic complications prevention and cure
Prof. Andrew JM Boulton	Diabetic foot care



PLENARY OF SECRETARY, DHR AND DG, ICMR ON NON COMMUNICABLE DISEASES

Prof. Balram Bhargava	Problem of noncommunicable diseases in India
Prof. G.K. Rath	Key achievements in cancer care at the national level and the future road map
Prof. Nikhil Tandon	Diabetes, obesity and other cardio Metabolic conditions
Prof. P.N. Sylaja	Neurosciences: Key achievements at national level and future road map
Dr. Prashant Mathur	Achievement in cancer research

PLENARY ON CLIMATE CHANGE AND HEALTH

Dr. Shanta Datta	Overview on climate change and health
Prof. V.M. Katoch	Facing the challenge of climate change on human health in India
Dr. Gautam Goswami	Impact of climate change on health – technology perspective
Dr. Jaiprakash Narain	Climate change and its impact on human health

PLENARY ON TRANSLATIONAL RESEARCH IN REPRODUCTION & GENETICS

Prof. A. Zubuik P. Ebokai	Impact of environmental pollution on reproductive function and metabolic disorders: influence of natural products/ phytochemical
Prof. Andy Peterson	A shared journey in human genetics in south Asia
Prof. Ren-Shen Ge	Recent studies of stem leydig cells

SPECIAL LECTURE


Prof. Pulok Mukherjee	Bio-prospecting of natural products: learning from our ancestors - tradition to trend
-----------------------	---

PLENARY ON NOVEL THERAPEUTIC APPROACHES FOR BREAST CANCER

Prof. Harikrishna Nakshatri	Impact of race/ethnicity on normal breast and breast cancer Biology
Prof. Srikant Anant	Magnolia component honokiol, a traditional Chinese /ayurvedic/native american medicine targets stem cells in colon cancer to inhibit tumorigenesis
Prof. Roy A. Jensen	Components of the traditional chinese herbal medicine thunder god vine, triptolide and celastrol target hsp90 to prevent triple negative breast cancer

PLENARY ON NOVEL CHEMO PREVENTIVE AND CHEMO THERAPEUTIC APPROACHES AGAINST CANCER

Prof. Rita Ghosh	Quinone detoxification and development of aggressive prostate cancer
Prof. Addanki P. Kumar	Intervention strategies for chemo-radio-resistant pathways
Prof. Animesh Dhar	Novel combination of natural compounds derived from unani / ayurvedic medicine target numerous genes in super-enhancer regions in pancreatic cancer, in turn, inhibit tumorigenesis



Dr. Subhrajit Saha Modulation of unfolded protein response to promote chemo-sensitization

PLENARY OF 125TH ANNIVERSARY OF SATYENDRANATH BOSE, PRASANTA CHANDRA MAHALANABIS AND MEGHNAD SAHA

Prof. Dilip Kumar Sinha 125th anniversary of Satyendranath Bose, Prasanta Chandra Mahalanabis and Meghnad Saha
Prof. S.K. Midya Few works on ionization after Professor Meghnad Saha from University of Calcutta
Prof. Bhupati Naidu Popular contributions of Prof. P.C. Mahalanobis to statistical science and Indian nation

PLENARY ON RECENT TRENDS OF RESEARCH IN NEURODEGENERATIVE DISEASES

Prof. Dipak Sarkar Neuronal activation of proopiomelanocortin ameliorates aging altered hepatic glucose metabolism
Prof. Shilpa Buch Evs in neurodegenerative diseases
Prof. Tusharkanti Ghosh Peripheral immune responses are altered in animal models of Alzheimer's disease
Prof. Rajat Sandhir Molecular and biochemical trajectories from diabetes to Alzheimer's disease

PLENARY ON CUTTING EDGE TECHNOLOGY FOR THE WELFARE OF HUMAN SOCIETY

Dr. Harish C. Pant A novel translational approach to neurodegenerative diseases: a small peptide derived from neuronal cell cycle kinase (cdk5) provides a protective and restorative role in neurodegenerative diseases like Alzheimer disease (AD), Parkinson's (PD).
Dr. Prasad D.K. Dhulipala Recombinant enzymes for hydrogen sulfide mitigation in oil and gas industry
Prof. Devendra Agrawal Mechanisms and biomarkers of plaque rupture

PLENARY ON RECENT ADVANCEMENT IN ECOLOGICAL SCIENCES

Dr. (Mrs.) B. Meenakumari Convention on biological diversity and Biological Diversity Act 2002, in conserving India's bioresources
Dr. S. Faizi Biodiversity and poverty eradication: Reforming the forest biodiversity management regime

PLENARY ON RESEARCH ON NUCLEAR MEDICINE

Prof. Shantanu Pande PETCT in cardiac surgery: ally in clinical dilemma and unraveling unexplored
Dr. Amitabh Arya Nuclear medicine- the future of medicine
Prof. T.K. Kalawat Nuclear medicine – the future of medicine



PLENARY ON INDIANS MAJOR STRENGTH AND OPPORTUNITIES ON NGS DATA ANALYSIS THROUGH BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

Dr. T. Madhan Mohan	Major distributed bioinformatics network in India: - strength and opportunities for bio- bigdata analytics
Dr. G. Narahari Sastry	Drug repurposing for rare diseases: a data science and modeling driven approach
Dr. Alope Srivastava	Ngs data analysis: strength and challenges in India
Dr. Amrita Ravi	Doctor's diary: solving high impact problems with technology

PLENARY ON CHALLENGES OF UNIVERSAL SALT IODIZATION

Prof. Amar K. Chandra	Iodine supplementation: a boon or bane in public health
Prof. Umesh Kapil	Suitability of double fortified salt in India: review of scientific evidence
Prof. John H Lazarus	The challenge of iodine nutrition
Prof. Elizabeth N Pearce	Iodine nutrition in pregnant women

SPECIAL LECTURES

Prof. Ashutosh Sharma, IITK, Secretary, DST
Prof. PradeepKhosla, Chancellor, University of California, Sandiego, USA
Dr. Sat Dev Batish, Athena Diagnostics, Worcester, USA

INDUSTRY ACADEMIA MEET

Industry Academia meet was organized to the tie between academics and industries so that the innovative ideas and products developed by academics can be transferred to the Industries. This meet was attended by a large number of delegates, Inaugural program was enlightened by the thought provoking takes from Shri Ashok Mittal, Chancellor, LPU, Dr. Manoj Kumar Chakrabarti, General President, ISCA and CEO's of different Industries.

Participant of the program were enriched by the lectures of several bright academicians and experts from Industries.

ACTIVITIES IN SECTIONS

Deliberations in the 14 sections commenced with address of Sectional Presidents (Annexure-I) followed by Platinum Jubilee Lectures (Annexure II) in each sections. Symposia on special topics (AnnexureIII) and a large number of Invited/Special Lectures were organised by Sectional Presidents which formed an integral part of the technical programme of the 106th Science Congress.

ISCA Young Scientist' Programme

Presentation of papers under ISCA Young Scientist' Programme in the sections were arranged on 4th January,2019. This year fourteen 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 2019 during valedictory programme of 106th 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 17 numbers of Best poster Awards were presented on 7th January,2019 during the valedictory function of 106th Science Congress. Names of those Awardees and titles of their papers are given in Annexure-V.

ISCA ENDOWMENT AWARDS/LECTURES

Name of Award	Name of Awardees
Asutosh Mookerjee Memorial Award	Prof. Pramod K.Verma, Bhopal
C.V.Raman Birth Centenary Award	Dr. Hemanta K. Majumdar, Kolkata.
Prof. R. C. Mehrotra Life Time Achievement Award	Prof. Julie Banerji Kolkata.
Millennium Plaques of Honour	Dr. Amit Ghosh, Kolkata
Excellence in Science and Technology Award	Prof. Paramartha Dutta Birbhum.
G. P. Chatterjee Memorial Award	Prof. Kusal K.Das Vijayapura
Prof Hira Lal Chakravarty Award	Dr. Naseem Ahmad Aligarh.
Prof Archana Sharma Memorial Award	Prof. K.C.Upadhyay New Delhi.
Dr. V.Puri Memorial Award	Prof. Shirang Ramchandra Yadav Kolhapur



Name of Award	Name of Awardees
Pran Vohra Award	Dr. Amarjeet Singh New Delhi.
Umakant Sinha Memorial Award	Dr. Vijay Kumar Prajapati Ajmer
Dr.B.C.Deb Memorial Award for Soil / Physical Chemistry	Dr. Subrata Kundu Karaikudi
Prof. William Dixon West Memorial Award	Dr. Srikantaswamy Mysore
S.K.Mukherjee Birth Centenary Award	Prof. Jayaprakash Bengaluru
Prof .R.C.Shah Memorial Lecture	Dr. Shobith R Mandya
Prof . S.S.Katiyar Endowment Lecture	Prof. Mahitosh Mandal Kharagpur
S.S. Bhatnagar Memorial Award	Prof. Saikat Maitra Kolkata
Jawaharlal Nehru Birth Centenary Awards	Dr. Dilip Mahalanobis Kolkata Prof. Ashish S. Verma Kolkata
Prof. S.K. Mukherjee Commemoration Lecture	Dr. Surendra Kumar Singh Nagpur
Dr. (Mrs) Gauri Ganguly Memorial Award	Dr. Vishvanath Tiwari Ajmer
Birbal Sahni Birth Centenary Award	Prof. Pulok Kumar Mukherjee Kolkata
S.S. Bhatnagar Memorial Award	Prof. Saikat Maitra Kolkata
S. N. Bose Centenary Award	Prof. B. Neppolian Chennai
Prof. G.K. Manna Memorial Award	Prof. Dwaipayan Bharadwaj, New Delhi
Vikram Sarabhai Memorial Award	Dr. Shanta Dutta Kolkata
Sriinivasa Ramanujan Birth Centenary Award	Prof. Pawan K Sharma Kurukshetra.

RECOMMENDATIONS FROM SECTIONS

AGRICULTURE AND FORESTRY SCIENCES

1. Coarse cereals having high nutritive value and climate resilience: Untapped genetic resources of these crops need to be exploited and such crops are to be popularized through value addition, value chain development, institutional facilities and policy support and popularization.
2. To make rice based cropping system sustainable available advance technologies on water use efficiency, nutrient use efficiency, climate resilient varieties and rice straw management needs to be translated and implemented through appropriate policies support and popularization. Crop diversification using crops like maize needs to be popularized with appropriate policy support like procurement, storage facilities etc.
3. Pulse crops with phenotype plasticity are adaptable to diverse climatic conditions and can cover up the rice fallow area. Creating seed hubs, ensuring good quality seeds, increasing MSP and market integration can revolutionize pulse production.
4. Integrated farming system is the most suitable approach across India to double farmers income, mitigate effects of climate changes, enhance food nutritional and environmental security.
5. Horticultural crops mainly fruits and vegetables which are rich in antioxidants and nutraceuticals and field crops like maize can play an important role in crop diversification especially in paddy based cropping system.
6. Infrastructure development for irrigation facilities, conservation of rain water for augmenting water resources and its effective utilization through participating water management in irrigated and rain fed areas are the need of the hour.
7. Farming has improved over time but not the conditions of the farmers. Policy interventions should target the farmers and consumers through effectively linking them with appropriate technology back stopping.

ANIMAL, VETERINARY AND FISHERY SCIENCES

1. Basic biology should be made integral part of undergraduate and post graduate studies in biotechnology, microbiology, bioinformatics and other modern biology disciplines.
2. With a view to conserve biodiversity, emphasis on strengthening of classical zoology in the syllabus of undergraduate and post graduate programmes be given which is not reflected in new UGC syllabus. UGC may be requested to restructure the syllabus in the light of this recommendation with special reference to minor phyla.
3. National funding agencies should provide sufficient funding for research on animal taxonomy as classical taxonomy has gone on backfoot during last 2 decades and proper identification of species of biodiversity importance has become a problem for young researchers.
4. Bio-resources are the wonderful gift of the 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 and innovative idea of bio-resources.

5. The assemblage of species with which we share the planet represent a vast untapped genetic library, with undiscovered pharmaceuticals and other beneficial substances. So programmes 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 for future.
6. Ensuring dangers of climate changes to biodiversity be recognized and integrating measures be undertaken on priority to conserve the biodiversity.
7. Biotechnological tools and innovative ideas should be used for the conservation, management and restoration of all types of habitats.
8. Checklist of local fauna be prepared to know the status of biodiversity and submit the same to the concerned agency to undertake conservational measure.
9. Emphasis must be enhanced in the form of the major research findings to harnessing more animal protein from the aquatic resources to ease out pressure on land resources.
10. There is an urgent need to increase researches to maintain and manage better health of terrestrial and aquatic animal resource for providing energy rich protein and other resources to human beings.
11. In order to augment the inland fishery production, there is a dire need for investigating mortality among the early life history stages of fishes and to develop innovative methods to increase the year class strength under prevailing conditions.
12. The damaged breeding site of the fishes should be conserved and restored to enhance the recruitment of fishes in natural aquatic ecosystem.
13. Due to the construction of multi-purpose dams on the rivers of our country, the sections where indigenous species have declined should be stalked with young ones of similar species annually in these riverine system which were affected greatly by this anthropogenic influences

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

1. Strengthen the health system response to NCDS including diabetes and metabolic syndromes in various ethnic groups in India at primary care level which well help in better health management.
2. To enact ethical code of conduct to study among indigenous and other population in respect of anthropological and behavioral studies.
3. Exploring media, visual and tourism anthropology is required in understanding different cultures and centers in India.
4. To explore and excavate various prehistoric sites in India are required for understanding human evolutionary behaviors.
5. Involvement of anthropology in policy planning towards various tribal development programmes.


- 
6. Scientific intervention through large scale population specific beta-thalassemia carrier screening in all indentified high risk zone for the disease.
 7. Ancestry based family screening for beta-thalassemia would be a practical approach for identification and counseling the carriers in high risk communities.
 8. After ensuring the preservation of rich, indigenous cultural heritage of the tribal's, planning for their improvement of their quality of life, wellbeing & economic status should be enhanced. Thus, efforts should be made to bring them into main stream and also to protect their rich indigenous heritage.

EARTH SYSTEM SCIENCES

1. Geoscientific research findings need to be utilized by the mineral and mining based industries for the National development.
2. With the increase in demand of Energy and Water there is an urgent need to formulate research strategies and investigation modalities for their optimum utilization and management. More emphasis is to be given to nuclear energy as few promising Uranium and Thorium ore reserves have been reported and discussed in this congress.
3. With the development of advanced geophysical technology, the blind ore bodies and hidden ore bodies by thick soil cover, thin Deccan lava flows and by the Upper Gondwana sediments need to be revisited. To enhance mineral and energy resources, ongoing research activities in the Indo-Gangetic cover. Bay of Bengal, Arabian Sea and Indian oceans require rigorous investigations. The Antarctica and gas hydrate related researches need to be continued with more emphasis on the Climate Change.
4. There is an urgent need to re-look into ground-water management and mitigation. Geoscientific perspectives for Natural Hazards such as earthquakes, floods, cyclones, storms, tsunamis, mass movements, ground level fluctuations and Climate Change need to be evaluated in the light of cutting edge technology.
5. More detailed geotechnical investigations are necessary in order to plan dams for irrigation; bridges, tunnels, new railway lines and national highways to connect metros, state capitals and Smart Cities. Emerging challenges come from the landslides and mass wasting processes operative in the Himalayan terrain that needs special attention with a more skilled scientific work force.
6. Restructuring of the Geology and Geophysics courses for graduate and post-graduate students is necessary so as to cater needs of the industries and research organizations. Exploration for groundwater, building material and raw material and raw material for small scale industries he taught under the skill development short-term courses in various Indian Universities.

ENGINEERING SCIENCES

1. Indigenous Technologies as its specialties to the context of India needs to be highlighted with focus on Energy efficiency. Restoration of natural resources, Environmental protection practices and Skill enhancement and employment generation using skilled workforce.


- 
2. Sustainable Technology Development is to be coupled with Green economy and Moral and Ethical practices.
 3. Shifting of Hydrocarbon Economy (non-Renewable Energies) to Hydrogen Economy (Renewable and Fuel Cells) needs to be emphasized.
 4. Water and Wastewater Technologies, Solid and E-waste Management requires special attention.
 5. Nation Centric, innovation driven, Knowledge intensive and globally benchmarked Rural Technologies needs special attention.

ENVIRONMENTAL SCIENCES

1. Environment boundaries do not respect political boundaries therefore transboundary initiative (i.e. across state/nations) need to be promoted by way of improved regional cooperation for understanding implications of environmental changes and developing mitigation strategies.
2. Pan-India or the regional scenarios on different aspects of environment are required for future projections and planning for mitigation and adaptation programme.
3. Multidisciplinary integrated studies on priority issues, such as, livelihoods promotion, water and air pollution management, biodiversity conservation and sustainable use, degraded land restoration, etc., should be promoted.
4. Climate sensitive regions like the Himalaya and the Western Ghats must be considered as national priority for action on impact mitigation, adaptation and sustainable development.
5. Basic research is key for planning and processes of application and therefore, there is a need to promote and integrate basic research with the applied research.
6. There should be a provision of environmental and biodiversity payment services and that need to be linked with the livelihood of the people so that they could better conserve and manage their resources.
7. Awareness on different environmental and biodiversity issues is the key for conservation and management of natural resources.
8. Implementations of policies and framework in right perspectives is needed for conservation and sustainable utilization of natural resources.

INFORMATION AND COMMUNICATION SCIENCE & TECHNOLOGY (INCLUDING COMPUTER SCIENCES)

1. ICT can be explored to enhance the productivity and preservation of agricultural goods.
2. GIS can be effectively used to forecast weather and natural disasters.
3. Initiations to be taken for indigenous solution towards Health Care Sector, Using ICT.


- 
4. Effective case of ICT to implement innovative ideas for green computing/technology.
 5. The advantage of ICT can be explored for the development of ‘Smart Cities’ & ‘Smart Villages’.
 6. ICT may be explored to enhance the ethical values for society.
 7. More initiatives to be taken to increase/expertise in various domains of ICT.

MATHEMATICAL SCIENCES (INCLUDING STATISTICS)

Mathematics curriculum should be reoriented in all levels, including school, college and university curriculums, keeping in mind about the advances in science and technology across the globe. Recent report by MHRD reveals that mathematics has the highest failure in class 10 State Board Examinations. It is therefore recommended that a well-defined methodology should be found to impart mathematics. Particularly, mathematics learning should be made joyful and meaningful at the school level. Creating visual representations for students can open up understanding and interest on this subject. At the higher level, equal priority should be given both in pure and applied mathematics.

Our honorable Prime Minister in his inaugural speech of 106th Indian Science Congress has stressed on interdisciplinary research. Mathematics is probably the only subject that can be used extensively in all branches of science and technology. The following interdisciplinary topics should be given immediate attention for the betterment of science and technology.

1. **Mathematics in Biology** : Mathematics has profound applications in biological sciences. Mathematical biology is the fastest growing research field in mathematical sciences throughout the world. However, the scenario in India is not so impressive. To keep pace with rest of the developed countries, both mathematicians and biologists of our country should work in complimentary fashion. Our Universities and Institutes should encourage and put extra efforts to do research in biomathematics and systems biology to better understand and explain complex biological phenomena.
2. **Mathematics in Meteorology** : Mathematics plays a pivotal role in predicting climate change and weather forecasting. Mathematical meteorology is truly an interdisciplinary topic that involves mathematicians, physicists and geologists. Sophisticated computational techniques, like numerical methods, stochastic processes, data analysis, are indispensable parts for accurate weather prediction and extreme events. Keeping in mind the great variation in temperature and precipitation in India, future research should aimed at the intersection of mathematics and meteorology for the sustainable development of our country.
3. **Big Data Analysis** : One of the most challenging tasks to the present days scientists, including mathematicians, is to analyze the big complex data set, uncover the hidden information in it and give insights about the trend and future. This big data analysis may be particularly important and useful in healthcare, meteorology, stock market, agriculture industries and other sectors. Despite its potential applications and usefulness, big data analysis for the benefit of aforesaid fields in India is lacking. Immediate attention and necessary impetus should be given to generate and use big data for the overall societal benefits of the nation.



There is, however, a huge challenge for the scientists in terms of data collection, data modeling, data sharing, data storage and data protection to make this mission successful.


In addition to these, significant stress should be given in the topics like applied functional analysis, algebraic geometry, graph theory, complex analysis, operations research, mathematical physics, computational fluid dynamics and numerical computations.

MEDICAL SCIENCES (INCLUDING PHYSIOLOGY)

1. Application of occupational health and Ergonomics can be used to improve the occupational health of the workforce of the country by humanization of work and work environment. Thus the drudgery of the workers may be lessened and productivity of the agricultural and industrial sector can be enhanced for the development of India. It is recommended that the quantum of research in this field should be increased in universities, research institutes, and engineering institutes throughout the India. This discipline should be introduced in the curriculum of under-graduate and postgraduate courses in relevant disciplines of science and engineering. Every large and medium industry should have Occupational health experts and Ergonomists.
2. It may be pointed out that there is no comprehensive physiological database in India. The national physiological database has immense importance for identifying the pathological conditions of the patients of any country. The database will be helpful for the pathologists and medical practitioner for diagnosing diseases and treatment. The problem may be solved by establishing a 'PHYSIOLOGICAL SURVEY OF INDIA' which can take appropriate steps for forming physiological database at national level.
3. In India there is increasing trends of life threatening diseases like, diabetes, cancer, AIDS and others. It is very much required to study the prevalence of such diseases in different populations and geographical regions so that proper health planning can be undertaken by the Govt. for particular disease in different areas of the country. In addition to that it is needed to understand the molecular basis of such diseases. Therefore, more research should be undertaken considering the socioeconomic and nutritional status of the population.
4. The Govt. should undertake appropriate health policy for eradication of some prevalent diseases and for improving the general health of the people.
5. More research is also required for the drug development considering the socioeconomic condition of the people of India. It is very much essential to emphasize for development of low cost medicine for a large section of population in India.
6. Medical Colleges should have both Medical and basic physiologists which will strengthen both teaching and research component of the Colleges.

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

1. The knowledge in the New Biology domain termed as "Modern Biology" is changing fast to understand the biological system as a whole. Dynamic curriculum in this area



integrating basic biology, chemistry, physics, mathematics, computation and statistics for understanding the functional biology should be introduced in the under-graduate and post-graduate curriculum with special emphasis on related practical and training.

2. The integrated collaborative research among the different areas of science should be stressed in both basic and applied research to understand the biological system at molecular level in detail for development of precision medicine.
3. Simulation of research in the areas of functional genomics, proteomics, metabolomics and interplay of different cellular proteins/pathway should be focused to facilitate targeted drug discovery associated with health and food production.
4. System should be developed to encourage the innovative potential among the researchers to solve different biological problems.

PHYSICAL SCIENCES

1. Special interact session must be planned with the concerned discipline students, faculty and staff with the Nobel Laureates to inspire them to do innovative research.
2. To aware the students, faculties and staff of academics about the new technological advances Training/ workshop should be organized in a large scale throughout the country.

PLANT SCIENCES

1. There is need to strengthen teaching of Core botany with respect to systematic and structural botany to develop strong knowledge base and produce young scientific force.
2. Due emphasis needs to be given on better understanding of form and structure, including morphological and molecular architecture, and reproductive biology to explore enhanced opportunities for genetic manipulation to realize desirable and designer plant types.
3. Studies on organization and function of cellular structures and vacuoles for better understanding of uptake of nutrients and non-nutrients, and carbon sequestration deserves due attention of the funding agencies.
4. In order to achieve genomic manipulation to develop novel genomic combinations and genome restructuring it is desirable to lay due emphasis on elucidation of structural organization of genome and genome analysis in near and distant relatives.
5. Whereas a large number of phytomolecules have been explored as a source of phyto-medicines, but lot more needs to be done to explore newer applications, including identification of allelochemicals, biopesticides befitting to newer cropping systems, and in curing of degenerative diseases using newer model systems such as *Caenorhabditis elegans* and *Drosophila*.

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 seven ISCA Chapters are at Allahabad, Amravati, Bangalore, Baroda, Bhopal, Bhubaneswar, Cochin, Chennai, Coimbatore, Delhi, Dharmanagar, Haridwar, Hyderabad, Imphal, Jaipur, Jammu, Kanpur, Kolkata, Patiala, Patna, Pondicherry, Rothak, Sagar, Shillong, Shimla, Sri Nagar, Tirupati.

Highlights of ISCA Chapter Activities (2018-2019) Focal theme “Future India : Science and Technology ”

ALLAHABAD CHAPTER


Convener : Dr.I.R.Siddiqui

Organised a three days national seminar on “Future India: Science and Technology” between February 22-24, 2019 in University of Allahabad. The inauguration function was presided over by Prof. R. L. Hangloo, Vice-Chancellor, University of Allahabad, Prof. Manoj K. Chakrabarti, General President of ISCA was the Chief Guest. Dr. A. K. Saxena, Dr (Mrs) Vijay Laxmi Saxena, Prof. H. P. Tiwari, Dr. (Mrs) Nibedita Chakraborti, Prof. S. Ramakrishna, Dr. A. K. De, Prof. Jagdamba Singh and Prof. Arun Kumar were Guests of Honour on the occasion. “Key note Address” was delivered by Dr. Alok Kalra, Director, CIMAP, Lucknow. National Science Day- Science for People and People for Science, Earth Day- End Plastic Pollution and Environmental Day- Beat Plastic Pollution were also celebrated. ‘Science Model Exhibition’ and debate on “Future India: Science and Technology” by students of IX-XII level on 4th March, 2019 at MRS School and College, Jhunki, Allahabad and talk on “Cleanliness and Environment” on 16th March, 2019 at SS Mahila Mahavidyalaya, SaraiInyat, Allahabad were also organised.

AMRAVATI CHAPTER

Convener : Dr.Atul Kesharao Bodkhe

Organized a 3-day symposium cum workshop on theme Future India: “Science and Technology- Role of spiders as ecosystem engineers” from 15th -17th November 2018 at Forest Training Institute Chikhaldara. The Director of FTI, Shri Bahale chaired the inaugural session. Total 50 forest guards, foresters participated from different forest areas of Maharashtra and the experts Dr Shazia Quasin, Zoological Survey of India, Pune, and Dr. Rajshekhar Hippargi, Prof of Walchand College, Solapur demonstrated various methods related to spiders and delivered talks. Spider research lab. J. D. Patil Sangludkar Mahavidyalaya, Daryapur, Indian Society of Arachnology, Rajesh Shahu Science College, Chandur Rly and CARS. The workshop was conducted collaboration with Department of Botany, GVISH, Amravati Inter-University Best Seminar competition for the P.G. students of



life sciences on 15th March 2019. Similarly, Department of Botany and IQAC of Shri Shivaji College, Akola in collaboration with ISCA, Amravati Chapter had organized Inter-University Poster Competition on date Feb 02, 2019. Total 78 students participated in the event and presented posters on varied subjects related to biological science.

BANGALORE CHAPTER

Convener : Dr.S.Ramakrishna

Organised in association with JAIN (Deemed to be University), Bangalore, one day symposium on 9th August 2018 on focal theme “Future India: Science and Technology-Frontier Research Domains in Biotechnology”. Keynote address and plenary lectures were delivered by the resource person of IISc and other research institutes. Two day National Conference on Future India: Science & Technology-Exploring New Horizons for a Sustainable Scientific Consortia was organized with the Oxford College of Science on 10th& 11th October 2018. One key note address, fifteen plenary lectures and parallel sessions for the physical, chemical, environmental and biological sciences followed by several poster presentations was arranged. Organised one day Science Expo in association with MVJ college of engineering on 30th October 2018 where around 820 students from different schools and PU colleges of Bangalore east participated. The winners were awarded with medals, trophies and cash prizes. Organized with JAIN (Deemed to be University) two-day national conference on “Future India-Science and Technology: Research Innovations in Biology” on 14th&15th February, 2019. It was inaugurated by Prof. Gangadhar, General Secretary ISCA (Membership Affairs) and presided over by Dr.Sundar Raj, Vice chancellor of JAIN deemed to be university, Bangalore. Along with Key note, plenary and parallel sessions, there were panel discussions with industry experts.

BARODA CHAPTER

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

Conducted first aid training, a school programme, one workshop and a national conference in the academic year 2018-2019. First aid training was organised to create awareness about the first aid among the students and train them for any kind of emergency situations. The school programme was conducted to create awareness about importance of cleanliness and hygiene amongst the school students. Workshop on “Biodiversity and Remote Sensing” was attended by scientists/engineers, academicians and students working in the fields of Botany, Zoology, Statistics and Life sciences. All the participants were benefitted by the valuable knowledge shared by various eminent speakers. The National Conference organised on “Inclination of Modern Science Towards Environmental Protection and Sustainable Development” was more knowledge pursuing event in science and it fulfill the thirst of young generation those who want to build up their career as a scientist.

BHUBANESWAR CHAPTER

Convener : Dr.Kajal Parashar

Organised Science Popularization programme at Vani-Vihar High School Bhubnaeswar on 3rd November 2018. Two days National Seminar on Future India: Science & Technology, held on 1st-2nd Feb 2019, and was attended by Officials from ISCA, Faculties, Scientists, Research Scholars and students from different parts of the Odisha and different parts of the Country. National Science Day was observed on 28th Feb, 2019. Science day lecture was delivered by Dr. Bishnu Prasad Biswal, Alexander von Humboldt, Research Fellow, MAX Planck Institute, Germany. On this occasion A.P. J. Abdul Kalam Ignite Awardees were also felicitated.

CHENNAI CHAPTER

Convener : Prof.C.Muthamizhchelvan

Organized fourteen distinct activities in and around areas to promote the scientific activities under the focal theme “Unreached the Reached”. This includes the conduct of four 2-days workshops and ten 1-day activities in affiliation with various reputed colleges/institutes. All activities were meant for popularizing the scientific technological developments to the welfare and benefits of humanity, and a few led to strengthening the real-time ecosystem. In a distinct workshop, the key issues such as “how to bridge the gap b/w industry and academia”, “how to write an effective paper”, “India’s pursuit of happiness”, followed by the thumb rules for effective implementation in R&D areas. The importance of women as “Valuable Human Resources” in women empowerment program and Cyber Security and challenges associated with them were shared amongst the participants. Furthermore, the joint events of “Gandhian Values”, to notify the contemporary values, ethics, impacts of human environment were all the highlights. The roadmap for circuit miniaturization, custom built components; Ayurveda for sustainable development paved the glimpses.

COCHIN CHAPTER

Convener : Prof.Dr.K.V.Jayachandran

Organised invited talks on Chemical Hygiene Plan, protocols to be followed in chemistry laboratories, SN College, Cherthala, B. Siyad, Govt. of Kerala; Dr. T. V. Sankar, Dr. Kufos motivating young researchers and build up confidence in research, SN College, Cherthala; Inculcating research in young minds, by Cochin Chapter of ISCA. Awareness programmes :Prof. Rima Dada, Head, Dept. of Anatomy, AIMS, New Delhi on the Physiological Aspects of Yoga to UG College, Kollam, PG College, Kollam,; for school children and teachers at HSC Kanichukulangara, local people of Cherthala,; Dr.Sreekanth Mallan and Dr.Divya on Oral Hygiene and related diseases to Asha workers; Legal awareness programme for school children at Sisu Kshema Samithi, Alappuzha, inaugurated by District Judge Mr. Justice Panchapakesan, by Adv. Seema, Adv. Jalaja Chandran and Mr.Shaji, interpretation of Rights of Persons with Disabilities ACT 2016 Dr.Harikumar, State Commissioner, Dr.Pavithran Training cum agricultural seminar: at Varanam Bank Auditorium, Mr. K. V. Shaji, KAU, Mr. T. S. Viswan, Agricultural Officer Conservation of 38 ponds at Mararikkulam North Panchayath, planting vetiver, as part of 150th birthday of Mahathma Gandhiji; NSS volunteers conserved 30 ponds by planting vetiver at Kanichukulangara. National seminar on Future India : Science and Technology- Advances in Integrated Scientific Research, 15 – 16th January, 2019 at M S M College, Kayamkulam. Prof. Dr. Kuldeep Sarma, Sessional President ISCA gave key note and other speakers gave interdisciplinary talks.

COIMBATORE CHAPTER

Convener : Dr.C.A.Vasuki

Conducted 29 programmes / activities during this year to make awareness about the role of science and technology for national development, to know the recent trends of research and innovation and to encourage the researchers to do quality research with better outcome for the benefit of society. The programmes organized were 12 workshops, 2 special lectures, 1 special programme, celebration of 4th International Yoga Day, 5 seminars, 3 hands on training, 1 symposium, 2 conferences, 2 awareness programmes and Science Day celebration for 3 days. Students at school and college levels, farmers and rural women have got benefit out of these programmes.

DHARMANAGAR CHAPTER

Convener : Dr. Santanu Ghosh

Organised workshop on Future India Science and technology and Quiz Competition among the schools students of Jampui area, organised by St. Thomas' English Medium High School, Jampui, North Tripura, School Level Biology Quiz Competition among the school students of Mohanpur Subdivision, organised by Swami Vivekananda Mahavidyalaya, Mohanpur, West Tripura, workshop and inter departmental project based competition organised by Maharaja Bir Bikram College, Agartala, workshop, Seminar, Awareness Programme organised by Government Degree College, Dharmanagar. Workshop and quiz competition among the school students of Kanchanpur subdivision, organised by Government Degree College, Kanchanpur.

HARIDWAR CHAPTER

Convener : Prof.(Dr.) Rajneesh Dutt Kaushik

Celebrated International Yoga day in collaboration with the Department of Yoga, Gurukul Kangri University, Haridwar, on 21st June, 2018. About 250 persons participated. Science communicators' selection was made on 21.10.2018, at Department of Chemistry, Gurukul Kangri Vishwavidyalaya, 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 in year 2015. The 150th year of birth of Father of Nation, Mahatma Gandhi, was celebrated by ISCA, Haridwar Chapter and performed the cleanliness activities within the village Mundiyaiki adopted by chapter in 2015. A two day national conference was organized on October 13-14, 2018 in collaboration with the Department of Biological Sciences, CBSH, G. B. Pant University of Agriculture & Technology, Pantnagar US Nagar, Uttarakhand. Science Poster competition on the occasion of National Science Day was organized at Rajkamal Science and Management College, Bahadrabad, Haridwar on February 28, 2019. A total of 03 invited scientific talks in addition to those delivered in conference were organized for propagation of the cause of science during this year.

HYDERABAD CHAPTER

Convener : Prof. B. Satyanarayana

Conducted "Inter Collegiate Competition" on the focal theme on 16th August 2018 at RBVRR Women's College, Narayanaguda, Hyderabad, "Innovations In Science And Technology-2018" at Department of Physics in MVSR Engineering College Hyderabad on 31-10-2018, one Day Seminar on "Role of Smart Materials In Engineering and Technology-(RSIT-2018)" at department of science and humanities in Matrusri Engineering college, Nadargul Hyderabad on 19-11-2018. "National Periodic Table Day-2019" was organized in Department of Chemistry University College of Science Osmania University, 7th Feb 2019 on the eve of international year of periodic table 2019 as announced by UNESCO. The activity was inaugurated by Prof K Pratap Reddy, Principal as chief guest and Head Department of chemistry, Prof Sarala presided the session. In this event 40 schools students in 80 batches attended and 6 rounds were conducted in quiz, puzzle games etc. "National Science Day-2019" was organized in University College of science Satavahana University Karimnagar Telangana state. In celebrations quiz competitions essay writing and elocution competitions conducted for students of all faculties. About 80 students presented posters. The prize distribution function was attended by Prof. U. Umesh Kumar, Registrar as chief guest and presided by Principal. One Day National Seminar on "Future India Innovations In Pharmaceutical Science" on 29-03-2019 at Nalanda College of Pharmacy, Nalgonda District Telangana State. The

selection committee on the program “Science Communication” was conducted at Aurora College, Hyderabad and candidates were selected .

IMPHAL CHAPTER

Convener : Prof. Arun Kumar

Organized the National Science Day, World Student Day, World Health Day, Quiz Competition and painting Competition for children. A.P.J. Abdul Kalam was a scientist who made India proud with his Missile Defense Programme. His contributions to the Indian Space Research Organization are unforgettable. Numerous projects were headed by him such as the launch of the Rohini-1, Project Devil and Project Valiant, and developing missiles. For his great contributions in improving the nuclear power of India, he is popularly known as the ‘Missile Man of India’. But his favorite job was teaching and that is how he wanted the world to remember him. Due to his love towards education, students, and his efforts in promoting education, United Nations declared his birthday as ‘World Student’s Day’ in 2010. It was celebrated on 15 October 2018 at Manipur University and number of school children were invited to create an awareness through old videos of Dr. Kalam. It was highly appreciated.

JAIPUR CHAPTER

Convener : Dr. Payal Lodha

Celebrations of Earth Day, National Education Day, World Environment Day, International Literacy Day, World Health Day, Student Day, Women’s Day, National Science Day, Yoga Day. On National Science Day lecture delivered and discussion on Swachh Bharat Abhiyan. Quiz competition and Planting of trees were also organized for college students at Department of Botany, University of Rajasthan, Jaipur. One-day workshop organized on Commercial Know how of Mushrooms & Spirulina: A Low cost potential start up on 11th March 2019 at Department of Botany, University of Rajasthan Jaipur. Organised Interactive Session on General health issues, use of techniques, drawing competition, current affairs related to School science in India and world, and quiz competition at Govt. Sindhi High Secondary School, Jaipur.

KANPUR CHAPTER

Convener : Dr. (Mrs.) Vijay Laxmi Saxena

Celebrated International yoga day on 21st June 2018 where Inter-Collegiate teachers participated and Life members of ISCA performed Yoga at Green Park Stadium, 17-September 2018, Inauguration of Hindi Pakhwara and Hindi debate competition on the Focal theme of Science Congress in Hindi, 25 Oct 2018: Hindi Saptah function was organised in memory of Dr. Sujata Verma at S.N. Sen Degree College, which was inaugurated by Vice Chancellor of CSJM Univ, Kanpur, 25st September 2018: Talk on Hindi Writers about their life and their contribution to Hindi literature, 10 Oct 2018: Essay competition on the Focal theme of Science Congress in Hindi, November 2018: Selection of Science Communicators where many of the research scholars and college Teachers participated in this selection process. 6th November 2018. Selection of Women Scientist for Women Science Congress, 23rd to 25th November, 2018- National Seminar on Future India: Science & Technology, Umakant Sinha Memorial Award” Awarded to Dr. Arun Kumar Shukla, Assistant Professor, Department of Biological Sciences and Bio-Engineering, Indian Institute of Technology, Kanpur, 19th December 2018. Prize Distribution, 28st February 2019, Celebrated National Science Day

KOLKATA CHAPTER

Convener : Prof. Tusharkanti Ghosh

Organised a national symposium, 5 scientific seminars, one awareness program and observed the National Doctors Day, World Environment Day, National science day in 2018-19. The Two- Day National Symposium was held at City College Kolkata on the focal theme of “Future India: Science and Technology”. The symposium was attended and addressed by Dr Manoj K Chakrabarti, Dr Vijay Laxmi Saxena, Dr Ashok K Saxena, Prof Ranjit K Verma, Dr Nibedita Chakrabarti and others. About 300 scientists, students and teachers of different Universities, Colleges and Research Institutes participated in the symposium. Ninety scientific papers were presented in symposium in addition to large number of poster presentation. The printed proceeding was distributed among the participants. ISCA Kolkata Chapter organised 5 seminars on focal theme at different school and colleges in remote places such as Pathar Pratima Mahavidyalaya (South 24 Parganas), Durgapur paramedical College (Paschim Bardhaman), Vidyanar G D Vidyamandir (Purba Bardhaman) and also in Kolkata such as Victoria Institution (College). ISCA Kolkata Chapter conducted health awareness program at Chupi (Nadia).

PATIALA CHAPTER


Convener : Dr. Paramvir Singh

Organised Science exhibition for Environment Protection in DAV school Patiala, in which students from all schools of Patiala had participated for the presentation of their models. About 37 Schools and around 247 students of 10th onward classes demonstrated different aspects of environment with special reference to skillful dealing through science. Celebrated Science Day on 28th of February 2019 in Khalsa College, Mahalpur district, Hoshiarpur. During this event college students of science stream from 13 colleges had participated. Eminent speakers had deliberated in the occasion and made aware the people about new development in science and technology. 13th March 2019 an intercollege science competition was arranged in GTB Khalsa colleges Anandpur Sahib in which 500 students from 43 colleges had attended Science series lectures were made in the Department of Human Genetics, Punjabi University Patiala. Prof. S.C. Softi deliberated on the topic, Science and Life in 21st century. A one day Ph.D. scholar workshop had been organised in Punjab Agriculture University, Ludhiana on 27th March 2019.

PATNA CHAPTER

Convener : Dr. Sheo Satya Prakash

150th Birthday of Gandhi Ji was celebrated at J.P.College, Narayanpur, Naughchia, Bhagalpur on 2nd October, 2018. Ms. Nidhi Rani, I.P.S., Sri S.P. Naughchia was Chief Guests. The work done for the upliftment of society and lesson given by Gandhi Ji was elaborated by several spokesmen. Two days National Seminar on “New Horizons of Biological Sciences: Advantages & Challenges” was organized on 27th and 28th November 2018 at Patna Women’s College with collaboration with ISCA Patna Chapter. In this Seminar ecological conservation, increasing application of nanotechnology, crop-improvement, genetics and plant breeding was highlighted. One day seminar on the focal theme “Future India : Science and Technology” was organized on 10th December 2018 at Taramandal, Patna. Chief Guest was Dr.Ashok Kumar Saxena, Past General President, ISCA and presided over by Dr.Manraj Kumar Chakrabarti, General President ISCA. Dr.Vijay Laxmi Saxena, Past General secretary, ISCA released the Souvenir. Welcome to Guest by Dr.Sheo Satya Prakash, Convener. The vote of thanks given by Dr.D.Kumar. Prof.H.P.Tiwari, Past General Secretary, Dr.Ranjit Kumar Verma, Treasurer



and Dr.Amit Krishna De, Executive Secretary, ISCA were present. Dr.Saxena spoke about the application of research, development and innovation of Science & Technology. Dr.Chakrabarti discussed about Health Sector, Emerging and re-emerging infectious diseases problem of non-communicable diseases etc.

PONDICHERRY CHAPTER

Convener : Dr. V. Amouda

Celebrated National Science day on “Future India: Science & Technology”, along with Pondicherry University, Centre For Bioinformatics and Pondicherry Science Forum on February 28, 2019. 325 students, 56 teachers from 32 schools and 60 Special children from Ananda Rangapillai Government Special School for Differently Abled Children in Pillaichavady and 140 students from Sathya Special School, Puducherry participated. Prof. A. Dinakara Rao, Centre Head, Centre for Bioinformatics, Pondicherry University, Mr. B. Ravichandrane, General Secretary, Pondicherry Science Forum and Prof. N. Parthasarathy, Dean, School of Life Sciences delivered lectures. Prof. Gurmeet Singh, Vice-Chancellor, Pondicherry University inaugurated and delivered the Inaugural address. Dr. R. Rathinamala, Research Officer, Siddha Regional Research Institute delivered the Special lecture on “A Healthy Body and Healthy Mind”. Quiz, Science Skit & Science for Fun - Elocution which is the highlight of the celebration reflected the quality of the work of students in different areas of science.

ROHTAK CHAPTER

Convener : Prof. S. P. Khatkar

Organised one day National Seminar on “Current Trends in Chemical Sciences” at M.D. University Rohtak. Science Exhibitions were organized in different village schools on the themes: Swach Bharat, Smart Dustbin, Ecofriendly Smart City etc. Then Chapter organized one day Science awareness programme at GMN College, Ambala Cantt and Jat College, Rohtak. A National conference on “Science and Technology for Sustainable Development” was organized and inaugurated by Dr. A.K.Saxena on 12-13 February, 2019 at MDU, Rohtak. Dr. Manoj K Chakraborty, Prof. K.S. Rangappa, Prof. P.P.Mathur, Prof. H.P.Tiwari, and Dr. Vijay Laxmi Saxena graced the occasion. An International Conference was organized in association with Arya P.G. College Panipat Haryana on 27-28 February, 2019. Science Day was celebrated on 28th Feb at Arya P.G. College, Panipat and in the Department of Chemistry M.D.U. Rohtak. One day National Seminar on “Chemistry for Better Life” was organized at G.V.M. Girls College, Sonapat on 27th March, 2019.

SAGAR CHAPTER

Convener : Dr. (Mrs.) Kalpana Jain

Celebrated World Yoga Day on 21 June 2018 at BTIE, Makronia, Sagar (M.P.). About 100 students, teachers and non-teaching staff participated. A two days National Seminar on the focal theme of Indian Science Congress “Future India: Science and Technology” was organized at Dr. Harisingh Gour University, Sagar (M.P.) during November 15-16, 2018. About 2000 delegates participated in the seminar and presented research papers as posters and oral presentations in different domains of science. National Science Day Celebration on 28th February 2019 at BTIE, Makronia, Sagar. About 100 students and teachers participated in the celebration.

SHILLONG CHAPTER

Convener : Dr. Devesh Walia

Organised Earth Day on 22nd April 2018; World Environment Day on 5th June; on 8th June 2018 the ISCA Lecture Series was organised with lectures on NE India: Issues and Challenges; Is there a life on Mars? and on “Intelligent use of Space Technology”; World Yoga day on 21st June, 2018; ISCA Lecture Series on “The first map of Brahmaputra in Assam with Calcutta and Oxford diversions by Mark Davies, Oxford, UK on 19th November 2018; World Water Day on 23rd March 2019. To commemorate the 150th Birth Anniversary of Mahatma Gandhi a talk by Prof. Fabio Scialpi, Professor of Religions and Philosophies of India and the Far East, University of Studies of Basilicata, Rome on “Mahatma Gandhi, a man of past India, a guide for present world society, and a light for the future of mankind” was organised on 26th November 2018; the exhibition, quiz and awareness program was also organised on 26th November, 2018 on Mahatma Gandhi and Prof. V. Elwin, father of NE Indian Tribes. The National Seminar on Earthquake Hazards: Perception, Mitigation and Management was organised jointly with EWMI, Guwahati on 9th and 10th November 2018 at NEHU, Shillong. The International Conference on “Climate Change, Biodiversity and Sustainable Agriculture (ICCBSA-2018)” was organised jointly with AAU, Jorhat on 13-16 December, 2018 at AAU, Jorhat, Assam.

SHIMLA CHAPTER


Convener : Dr. (Mrs.) Neeraj Sharma

Organised National Seminar entitled “Celebrating Indian Science: From Past to Future” on 13 Sept. 2018 at St. Bede’s College Shimla in which about 300 students from various schools and colleges participated. Organized one day National Seminar entitled “Indian Science and Technology Past, Present and Future” on 22 Sept. 2018 at UIIT HPU Shimla with 4 Invited Talks and about 170 participants. Organized two days National Conference entitled “Emerging Research Trends in Chemical, Physical and Life Sciences for Entrepreneurial Skill Development” on 26th and 27th Dec. 2018 at Biotechnology Department HPU Shimla jointly with BIC HPU Shimla. Prof. Sikander Kumar Hon’ble Vice-Chancellor, HP University, Shimla was the Chief Guest and Prof. R.S. Chauhan Hon’ble Pro-Vice Chancellor, HPU, Shimla was the Guest of Honor. There were 3 Invited Talks and about 200 participants. A Souvenir and Abstract Book was released. Organized two days National Conference on “Role of Science and Technology in Disaster Management” at Govt. College Kullu on 14th and 15th Dec. 2018 jointly with Vijnana Bharti. Organized one day National Seminar on “Scientific developments: Quest for Excellence (IYPT 2019)” on 14 Mar. 2019 at APG Shimla University in which Prof. Arvind Kalia, Dean Of Studies HPU Shimla was the Chief Guest. There were 3 Invited Talks and about 110 participants. Two Science Communicators were selected who made their presentations at 106th Indian Science Congress at LPU, Jalandhar.

SRINAGAR CHAPTER

Convener : Dr. Ulfat Jan

Organised Interactive workshop on “Future India - Science and Technology” in collaboration with Mother Teresa Memorial College of Education, Tangmarg, Kashmir on 03-08-2018. More than 150 teachers from various colleges of Kashmir valley actively participated in the deliberations of the workshop. The Chief Guest of the function was Prof. A. K. Saxena, Past General President ISCA and the Guest of Honour on the occasion was Dr. Vijay Laxmi Saxena, Past General Secretary, ISCA. Speakers from various Degree colleges highlighted the importance of science and technology for the present and future generations and a few speakers also spoke on the misuse of the technology.



A week long Painting Competition on “Promotion of Cleanliness” was organized on 150th year of birth of the Father of Nation, Mahatma Gandhi in collaboration with Shadab Higher Secondary School, Naseem Bagh, Srinagar, Kashmir on 9th October in which a total of 300 students sat in competition and cash prizes along with certificates were given to the winners. Engineer, Mehraj Malik, a social activist spoke on the promotion of cleanliness and made the students aware about its importance.

TIRUPATI CHAPTER

Convener : Prof. R. Ramamurthi

Conducted meetings on World Health Day, World Earth Day, World Environment Day, National Science Day, Forest Day and Water Day by inviting students and communities from various places. The repercussions of non-protection of the Mother Earth have been focused. Science Communication Seminar was conducted. Organised lectures on national natural resources development and conservation for future generations, field visits were made for college students to explain environment, energy, pollution, biodiversity apart from local communities. Organised continuous training programmes to women on home compost making and creating awareness on conservation of environment with cooperation of Rashtriya Deva samurai and Municipal Corporation of Tirupati.

CELEBRATION OF HINDI WEEK CEREMONY IN THE INDIAN SCIENCE CONGRESS ASSOCIATION OBSERVATION OF HINDI WEEK CELEBRATION

In the Indian Science Congress Association on 13.09.2018, Hindi Week was inaugurated by Quiz Competition . This programme was presided by Dr. Amit Krishna De, Executive Secretary. In this programme , Dr. Arun Kumar Pandey, Assistant Executive Secretary was also present. In this whole week various competitions were arranged and staff members participated in the competitions. On September 19,2018 in the Valedictory Session of Hindi Week Hindi Workshop was organised . On this occasion, Shri Kailash Nath Yadav, Member Secretary, TOLIC conducted the Hindi Workshop. On this programme Dr. Manoj Kumar Chakrabarti, General President was present and awarded prizes to the participants.

PUBLICATIONS

The bi-monthly journal Everyman's Science (Vol.LIII Nos.1-6) was brought out. Other publications brought out were : ISCA Directory : 2018-2019, Annual Report : 2017-2018, Synopsis of the Presentations of ISCA Young Scientist Awardees for 106thISC, abstracts of Best Poster Award Programme for 106th 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 2018-2019.

Name of the Body	Meetings held on
Executive Committee	May 04, 2018, October 04, 2018, January 02, 2019 (adjourned to January 07, 2019),
Council	May 05, 2018, October 04, 2018 and January 02, 2019 (adjourned to January 07, 2019)
Finance & Establishment Committee	May 04, 2018 and October 04, 2018 and January 2, 2019
Advisory Committee	May 04, 2018, October 04, 2018, January 02, 2019

Besides above, two meetings of the General President with Sectional Presidents of 106th Indian Science Congress were held on May 05, 2018 and October 05, 2018. Also, meeting of Permanent members of Conveners of ISCA Chapters were held on October 05 , 2018 and Chapter Conveners on January 07, 2019.



ISCA REPRESENTATION IN OTHER ORGANIZATIONS DURING 2018-2019

Indian National Science Academy, New Delhi :

Prof. R.Ramamurthi, General President (2007-08), ISCA, Chairman, RFSD-RCE, Tirupati; INSA Honorary Scientist, Former Vice Chancellor, Sri Venkateswara University, Tirupati; (Dharmadhikari, Sri Sringeri Sankara Mutt), Rec: A-9, Vaikuntapuram, M.R. Palli, Tirupati -517 502.

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, Technical Advisor, 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, Bhubaneswar:

Dr. Ashok Kumar Saxena, General President (2015-2016) and Former General Secretary, ISCA, Former Dean, Faculty of Science, C.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.
(Expired)

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, ICMR Emeritus Medical Scientist, Former 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 :

	104 th Session (2016-2017)	105 th Session (2017-2018)	106 th Session (2018-2019)
Life Member	32,137	35,280	37,750
Annual Member	7,793	12,573	8,562
Sessional Member	3,176	5,683	2,296
Student Member	3,140	4,924	3,085
Individual Donor	26	27	29
Institutional Donor	34	36	36
Institutional Member	8	12	11
Total	46,314	58,535	51,769

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.

* 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 reservation policy :

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

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 respect of 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 106th Indian Science Congress by Lovely Professional University, Jalandhar. Sincere thanks are also due to the Shri Ashok Mittal, Chancellor and their associates, for their untiring efforts to make the 106th 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 106th Session, it is a pleasure for the Committee to record its gratefulness to the General President, Dr. Manoj Kumar Chakrabarti for all his efforts to make the 106th 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 (2018-2019)



ISCA ALLAHABAD CHAPTER



ISCA AMRAVATI CHAPTER



ISCA BANGALORE CHAPTER



ISCA BARODA CHAPTER



ISCA BHUBANESWAR CHAPTER



ISCA CHENNAI CHAPTER

Nationwide Activities through ISCA Chapters (2018-2019)



ISCA COCHIN CHAPTER



ISCA COIMBATORE CHAPTER



ISCA DHARMANAGAR CHAPTER



ISCA HARIDWAR CHAPTER



ISCA HYDERABAD CHAPTER



ISCA IMPHAL CHAPTER

Nationwide Activities through ISCA Chapters (2018-2019)



ISCA JAIPUR CHAPTER



ISCA JAMMU CHAPTER



ISCA KANPUR CHAPTER



ISCA KOLKATA CHAPTER



ISCA PATIALA CHAPTER



ISCA PONDICHERRY CHAPTER

Nationwide Activities through ISCA Chapters (2018-2019)



ISCA ROHTAK CHAPTER



ISCA SAGAR CHAPTER



ISCA SHILLONG CHAPTER



ISCA SHIMLA CHAPTER



ISCA SRINAGAR CHAPTER



ISCA TIRUPATI CHAPTER


TITLE OF ADDRESSES OF SECTIONAL PRESIDENT OF 106TH ISC SESSION

SI No	Section	President	Title
1	Agriculture and Forestry Science	Dr.Sujay Rakshit Ludhiana	The Path of Coarse Cereals – Way Ahead Under Changing Climate and Nutrition Scenario
2	Animal, Veterinary and Fishery Sciences	Prof Kuldeep K. Sharma Jammu	Fish Egg/Larval Mortality: An Issue of Concern
3	Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)	Dr.Soibam Jibonkumar Singh Canchipur	Imaging Indian Public Health Issue for a Bright Future India : Obesity and Diabetes
4	Chemical Sciences	Prof Jagadamba Singh Allahabad	Catalysis in Organic Synthesis
5	Earth system Sciences	Prof J.P.Shrivastava Delhi	Geochemical Flow Stratigraphy, Age And Duration of Volcano-Sedimentary Sequences from the Eastern Parts of the Deccan Traps, India
6	Engineering Sciences	Prof (Dr.) Swami Vedajnannanda Kolkata	Engineering and Technology: Glorious Past and Bright Future of India
7	Environmental Sciences	Dr. Indra D. Bhatt Almora	Biodiversity In India: Status, Trends and Conservation Priorities
8	Information and Communication Science and Technology (including Computer Science)	Dr. Ratnadeep Raghunathrao Deshmukh Aurangabad	Role of ICT for Sustainable Development of Future India

Sl No	Section	President	Title
9	Materials Science	Prof K.Byrappa Mysore	The Current Trends in Properties Tuning In Metal Oxides and their Composites
10	Mathematical Sciences (including Statistics)	Prof Nandadulal Bairagi Kolkata	Reproducing Psoriasis Phenotypes Through Mathematical Modelling of Immune Cells--Keratinocytes Cross Talk
11	Medical Science (including Physiology)	Prof Prakash Chandra Dhara	Future Development of India:Role of Ergonomics And Occupational Health
12	New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	Dr. Chinmay Kumar Panda	Emergence of Precision Medicine through Systems Biology in Oncology: A Step Forward in Modern Biology
13	Physical Sciences	Prof (Dr.) Vijay Janardhan Fulari Kolhapur	Electrochemical Synthesis of Polyaniline Thin Films for Energy Storage Application
14	Plant Sciences	Prof (Mrs.) Seshu Lavania Lucknow	Vetiver Grass Model and Phenomics of Root System Architecture

PLATINUM JUBILEE LECTURES OF 106TH ISC SESSION

Sl.No	Section	Speaker	Title
1	Agricultural and Forestry Science	Dr.Kaushik Banerjee Pune	Technological Advances and Challenges in Food Safety and Traceability of Agricultural Produce: Towards A New Horizon
2	Animal ,Veterinary and Fishery Sciences	Prof. Seema Langer Jammu	Grow-Out Technology of <i>Macrobrachium Rosenbergii</i> in Jammu (J& K)
2	Anthropological and Behavioural Sciences (Including Archeology, Psychology, Education and Military science)	Prof Haobijam Vokendro Arunachal Pradesh	Redefining Anthropology for a Bright Future India
3	Chemical Sciences	Prof. Satish Kumar Awasthi Delhi	Newer Approach for Antimalarial Drug Discovery
4	Earth System Sciences	Dr.Neloy Khare New Delhi	Extreme Events in Geological Past Due to Climate Change
5	Engineering Sciences	Dr.Pradosh Prasad Chakrabarti Hyderabad	Greener Technologies for Utilization of an Indigenous Raw Material- impact on Indian Rice Bran Oil Refining & Valorisation of its By-products
6	Environmental Sciences	Dr. Sunil Nautiyal Bangalore	Conservation and Socio-Ecological Development Under Change Climate in Anthropocene.
7	Mathematical Sciences (including Statistics)	Prof. Poonam Singh Delhi	Designs For Mixture Experiments Through Projection.
8	Medical Sciences (including Physiology)	Dr.Amit Pal Kolkata	Role of Microbial proteases in Pathogenesis and Molecular Targeting Therapy of Cancer



Sl.No	Section	Speaker	Title
9	New Biology (Including Biochemistry, BioPhysics, Molecular Biology and Biotechnology)	Dr. Shib Sankar Roy Kolkata	Cancer Metabolism and Metabolic Modulator
10	Physical Sciences	Dr. Ashok Champatrao Kumbharkhane, Nanded	A Time Domain Dielectric Relaxation Spectroscopy : Challenges and Oppurtunities.
11	Plant Sciences	Prof. Meenu Saraf Ahmedabad	Reshaping the Rhizosphere Microbiome to Combat Salinity Streee in Agriculture

**TITLES OF SYMPOSIA ON SPECIALIZED TOPICS ORGANISED BY
THE SECTIONS OF 106TH ISC SESSION**

Section	Topic
Agriculture and Forestry Sciences	1) Science-led Innovation in Agriculture: Key to Sustainability and Food Security.
Animal, Veterinary and Fishery Sciences	1) Challenges confronting realization of potential of fish production through management of aquatic resources in different states of India. 2) Role of Science and technology in milk and livestock production to meet future consumption rates.
Anthropological and Behavioral Sciences (including Archaeology, Psychology, Education and Military Sciences)	1) Redefining Anthropology for Bright Future India. 2) Redefining Behavioural Science for Bright Future India.
Chemical Sciences	1) Green Catalysis in Organic Synthesis. 2) Chemical Science Education in Future India.
Earth System Sciences	1) Currents trends and future challenges in Geo-science.
Engineering Sciences	1) Green Energy Engineering & Technology for Rebuilding India. 2) Sustainable Technologies for Future India .
Environmental Sciences	1) Biodiversity for Future India 2) Science and Technology for improving Environmental Sustainability.
Information and Communication Science & Technology (including Computer Sciences)	1) Impact of ICT on Future India. 2) Role of ICT for Sustainable Development of Future India. 3) Empowerment of Rural Youth to build Future India using ICT (Information and Communication Technology).

Section	Topic
Material Sciences	<ol style="list-style-type: none"> 1) Materials for Future Technology. 2) Green Processing of Materials 3) Materials for Health, Environment and Energy Application.
Mathematical Sciences (including Statistics)	<ol style="list-style-type: none"> 1) Mathematical and Computational Modeling with Application to Biological Sciences and Medical Technology. 2) Application of Mathematics to Physical Problems and Technological Developments.
Medical Sciences (including Physiology)	<ol style="list-style-type: none"> 1) Occupational Health and Ergonomics for future development of India. 2) Contemporary research in medical and allied sciences for future India.
New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	<ol style="list-style-type: none"> 1) System Biology and Targeted Drug Discovery. 2) Modern Biology and Precision Medicine.
Physical Sciences	<ol style="list-style-type: none"> 1) Optics and its Applications. 2) Physics for Science and Technology.
Plant Sciences	<ol style="list-style-type: none"> 1) Structural Botany as a Backbone of Modern Botany. 2) Phyto-molecules and Botanicals in Human Welfare

LIST OF YOUNG SCIENTIST AWARDEES FOR 2018-2019

SL No	Section	Name of the Awardee	Title of the Paper
1	Agriculture and Forestry Sciences	Susheel Kumar Sharma ICAR Research Complex for NEH Region Manipur Centre, Imphal - 795004,	Genomics of Episomal And Endogenous Banana Streak Viruses Development of Synthetic Peptide Based Immunodiagnostics and Pathogenicity Analysis
2	Animal, Veterinary & Fishery Sciences	M.Shobana Department of Molecular Biology, School of Biological Sciences, Madurai Kamaraj University, Madurai - 625 021,	Molecular Taxonomy – Dna Barcodes For Demonstrating the Phylogeography of Fish <i>Lepidocephalus Thermalis</i> (V.) From Rivers of Southern Tamil Nadu.India
3	Anthropological and Behavioural Sciences (including Archaeology , Psychology , Education and Military Sciences)	Laishram Ibohalm Meitei Dept. of Anthropology, Manipur University, Canchipur - 795 003,	Body Fat Percent: A Better Indicator of Health Condition in Female Stone Crushers that Waist Hip Ratio & Body Mass Index.
4	Chemical Sciences	Fatima Tufail Environmentally Benign Synthesis Lab, Department of Chemistry, University of Allahabad, Allahabad - 211 002.	A One-Pot Efficient Synthesis of Highly Functionalised Furan -2-Ones and Pyrol-2-Ones Using Montmorillonite K-10 as a sustainable Heterogeneous Green Catalyst
5	Earth System Sciences	Rupal Dubey Micropaleontology Laboratory, Geological Oceanography Division, National Institute of Oceanography, Dona Paula - 403 004, Goa.	Testing Subterranean Flow Hypotesis For Formation of Mudbank off Alleppey, Kerela: Application of Geological Tools and Societal Implication

SL No	Section	Name of the Awardee	Title of the Paper
6	Engineering Sciences	Prosenjit Das Materials Processing & Microsystems Laboratory, CSIR-Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur - 713 209,	Design and Development of Prototype Light Weight Automobile Brake Disc Out of Novel Al-Mg Composite; An Initiative Towards Greener India
7	Environmental Sciences	Suhana Datta P. G. Department of Microbiology, St. Xavier's College, 30 Mother Teresa Sarani, Kolkata - 700 016	Calocybe Mediated Transformation of Agricultural Waste to Multidimensional Biomolecules
8	Information and Communication Science & Technology (including Computer Sciences)	Shaila H. Koppad Department of MCA, R. V. College of Engineering, Bangalore - 59	Efficiency of Big data Technique to Predict and Analyze COPD Data
9	Materials Science	Pooja Devi CSIR-Central Scientific Instruments Organisation, Sector – 30C, Chandigarh - 160 030.	Carbonaceous Fluorescent Dots: Promising Candidates for Applications in Sensing, Energy Harvesting and Security Inks
10	Mathematical Sciences (including Statistics)	Sreeparna Majee Department of Mathematics, Jadavpur University, Kolkata - 700 032.	Modeling and Stimulation of Blood Flow With Magnetic Nanoparticles as Carrier for Targeted Drug Delivery in the Stenosed Artery
11	Medical Sciences (including Physiology)	Deotima Sarkar Endocrinology of Physiology Laboratory, Department of Physiology, University of Calcutta, Kolkata - 700 009	Goitrogenic Potential of a Commonly Consumed Cyanogenic Plant Food of North East India – An Insight Study




SL No	Section	Name of the Awardee	Title of the Paper
12	New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	Debasish Paul Cancer Biology Division, NCCS Complex, SP Pune University Campus, Ganeshkhind Road, Pune, Maharashtra - 411 007.	SDS22 Functions as a Putative Tumor Suppressor by Abrogating AK Signalling and Maintaining Genomic Integrity
13	Physical Sciences	Gaurav Mahadev Lohar Department of Physics, Lal Bahadur Shastri College of Arts, Science and Commerce, Satara - 415 002.	Performance and Evaluation of CuO/ Mn ₃ O ₄ /RGO Composite Based Nanomaterials for Electrochemical Energy Storage Devices
14	Plant Sciences	Ritesh Banerjee Department of Botany, Centre for Advanced Studies, University of Calcutta, 35, Ballygunge Circular Road, Kolkata - 700 019	Vetiver System: An Eco – Friendly Green Technology to Remediate and Restore Iron Mine Spoil Dump Sites

LIST OF BEST POSTER AWARDEES FOR 2018-2019

SI No	Section	Name of the Awardee	Title of the Paper
1.	Agriculture and Forestry Sciences	Priyanka Chakraborty Plant Physiology and Biochemistry Sec., Dept. of Botany, Burdwan University, Burdwan - 713 104	Phytohormone mediated hardening of a pulse seed cultivar (<i>Vigna radiata</i> L. cv-PDM 84-139) under stressful storage condition
		Nisha S.A. Dept. of Botany, Mahatma Gandhi College, Thiruvannthapuram, Kerala - 695 004	Nutritional and Antinutritional Facts in Young Shoots of Reed bamboos; <i>Ochlandra wightii</i> (Munro) C.E.C. Fish. in Gamble and <i>Ochlandra travancorica</i> (Bedd.) Benth. ex Gamble
2.	Animal, Veterinary & Fishery Sciences	Nisha Rana Dept. of Zoology, RGPG College, Meerut, U.P. - 250 001	Seasonal variation in DNA content of <i>Labeo angra</i> (Hamilton, 1822)
		Rajesh Prasad Cell and Tumor Biology Lab. Dept. of Zoology, NEHU Shillong - 793 022	Studies on the antitumor activity of rutin and cisplatin combination against murine Dalton's lymphoma and molecular docking analysis with certain anti-apoptotic proteins
3.	Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)	Ksh Beliya Luxmi Devi Dept. of Anthropology, Manipur University, Canchipur - 795 003	Water Hygiene and Morbidity Prevalence: A Case Study of Karang Village of Manipur
		Vishal Yadav Cognitive Science Lab., Dept. of Psychology, BHU Varanasi - 221 005	Effect Of Varied Temporal Interval on Time Perception During Executive Task
4.	Chemical Sciences	Tulika Malviya Tripathi Dept. of Chemistry, University of Allahabad Allahabad, U. P. - 211 002	Fabrication of Aloevera based Nanoparticles for Colon Targeted drug delivery of 5-Aminosalicylic acid
		Rayees A. Bhat Centre of Research for Chemical Sciences, Govt. Model Sci., College, Jiwaji University, Gwalior - 474 009	Experimental and Theoretical Study of zn(II) complex of s-benzyl A-(N-2-Methyl-3-Phenylallylidene) Dithiocarbamate: An Approach to Antibacterial, Thermal Studies and Dft Calculations

SI No	Section	Name of the Awardee	Title of the Paper
5.	Environmental Sciences	Vikram Singh Negi G. B. Pant National Institute of Himalayan Environment and Sustainable Development, Kosi - Katarmal, Almora, Uttarakhand - 263 643	Expansion of Polygonum Polystachyum in Valley of Flower National Park: Conservation Implications
		Debasis Golui Division of Soil Science and Agricultural Chemistry, ICAR-IARI, New Delhi - 110 012	Risk assessment of polluted soils: a new approach for fixing permissible limit of extractable metals in polluted soils in relation to human health
6.	Information and Communication Science & Technology (including Computer Sciences)	A.B.Dhivya Dept. of Information Technology, Bharathiar University, Coimbatore, Tamilnadu - 641 046	Enhancing tablet images using denoising algorithms in various color space models
7.	Mathematical Sciences (including Statistics)	Abhijit Paul Drug Discovery Research Centre, Translational Health Science and Technology Institute, NCR Biotech Science Cluster Faridabad - 121 001	Finding metabolic reactions responsible for cancer development using genome-scale metabolic model
8.	Medical Sciences (including Physiology)	Siddhartha P.Dubhashi Dept. of Surgery MGM Medical College and Hospital, Navi Mumbai - 410 209	Papaya dressing for chronic wounds.
		Samrat Paul School of Bioscience and Engineering, Jadavpur University Kolkata - 700 032	Anti metastasis activity: Evaluated by cell based adhesion assay on gelatin-fibronectin coated plate invitro.



SI No	Section	Name of the Awardee	Title of the Paper
9.	Physical Sciences	Jyotirmoy Goswami Dept. of Physics, JIS University, Agarpara, Kolkata - 700 109	Ion Acoustic Solitary Waves Under the Action of a Periodic Force in the Early Universe
		Laxmi Kumari Dept. of Physics, University of Lucknow Lucknow - 226 007	Surface Modificaion and Characterization of H-Bn Doped Pvp Based hin Film and its Application as Humidity Sensor
10.	Plant Sciences	Sanjeev Kumar Dept. of Botany, University of Jammu, Jammu - 180006	Ethnomycological knowledge on Uses of Wild Mushrooms in Jammu and Kashmir

INFOSYS FOUNDATION – ISCA TRAVEL AWARD 2018-2019

SL NO	Name of Student	Name of School
1.	Snehal Sobti	D.R.V D.A.V. Centenary Public School, Phillaur, Jalandhar
2.	Dav Vrat Chadha	Mayor World School, Jalandhar
3.	Robins Kumar Sah	Holy Cross School, Kolkata
4.	Harshit Singh	Bhavan Vidyalaya ,Chandigarh
5.	Amratjeet	Saint MSG Glorious International School , Sirsa
6.	Ekam Singh	St. John's High School, Chandigarh
7.	Mirnal Nautiyal	Doon International School, Dehradun
8.	J.Kasinath	Mahatma Montessori Matriculation Higher Secondary School, Madurai
9.	Karthiyayani Vinod	Saraswathi Vidyalaya Senior Secondary Residential Central School , Thiruvananthapuram
10.	Pratham Jain	Mayor World School, Jalandhar

MEMBERS OF THE COUNCIL FOR 2018-2019

General President

Dr. Manoj Kumar Chakrabarti Kolkata

Immediate Past General President

Dr. Achyuta Samanta Bhubaneswar

General President-Elect

Prof. K. S. Rangappa Mysore

General Secretary (Membership Affairs)

Prof. Gangadhar Bengaluru

General Secretary (Scientific Activities)

Prof. Premendu P. Mathur Pondicherry

Treasurer

Prof. Ranjit Kumar Verma Munger

Elected Members of the Executive Committee

Dr. (Mrs.) Vijay Laxmi Saxena Kanpur

Mrs. Kumkum Swarup Kanpur

Dr. Anoop Kr. Jain Mumbai

Dr. S. Ramakrishna Bengaluru

Prof. M. Bhupathi Naidu Tirupati

Prof. D. Narayana Rao Guntur

Prof. Sasmita Rani Samanta Bhubaneswar

Prof. Subodh Kumar Jain Sagar

Prof. S. V. Kashmir Raja Katankulathur

Prof. Naresh Padha Jammu

Representative of Department of Science & Technology, Government of India

Dr. Praveer Asthana New Delhi

Local SecretariesMrs. Rashmi Mittal Phagwara
JalandharDr. Monica Gulati Phagwara,
Jalandhar**Past General Presidents**

Prof. M. S. Swaminathan Chennai

Prof. R. P. Bambah Chandigarh

Prof. C. N. R. Rao Bengaluru

Prof. D. K. Sinha Kolkata

Dr. S. C. Pakrashi Kolkata

Prof. S. K. Joshi New Delhi

Dr. P. Rama Rao Hyderabad

Dr. (Mrs.) Manju Sharma New Delhi

Dr. R. A. Mashelkar Pune

Dr. R. S. Paroda New Delhi

Prof. S. S. Katiyar Kanpur

Dr. K. Kasturirangan Bengaluru

Prof. Asis Datta New Delhi

Prof. N. K. Ganguly New Delhi

Prof. Harsh Gupta Hyderabad

Prof. R. Ramamurthi Tirupati

Dr. T. Ramasami Chennai

Dr. G. Madhavan Nair Trivandram

Prof. K. C. Pandey Lucknow

Prof. Geetha Bali Bengaluru

Dr. Manmohan Singh New Delhi

Prof. Dr. Ranbir Chander Sobti Lucknow

Dr. Ashok Kumar Saxena Kanpur

Past General Secretaries

Dr. (Miss) Shashi Prabha Arya New Delhi

Prof. H. P. Tiwari Allahabad

Prof. S. P. Mukherjee Kolkata

Dr. (Mrs.) Yogini Pathak Vadodara

Prof. Uma Kant Jaipur

Prof. B. Satyanarayana Hyderabad

Prof. B. P. Chatterjee Kolkata

Prof. S. P. Singh Kurukshetra

Prof. Avijit Banerji Kolkata

Dr. Nilangshu Bhusan Basu Kolkata

Prof. Arun Kumar Imphal

Past Treasurers

Dr. Shashi Bhuson Mahato Kolkata

Prof. Dhyanendra Kumar Arrah

Sectional Presidents

Dr.Sujay Rakshit	Ludhiana
Prof.Kuldeep K.Sharma	Jammu
Dr.Soibam Jibonkumar Singh	Imphal
Prof.Jagdamba Singh	Allahabad
Prof.J.P.Shrivastava	Delhi
Prof.Swami Vedajnananda	Kolkata
Dr.Indra Dutt Bhatt,	Almora
Dr.Ratnadeep Raghunathrao	Aurangabad
Deshmukh	
Prof.K.Byrappa	Mangalagangotri
Prof.Nandadulal Bairagi	Kolkata
Prof.Prakash Chandra Dhara	Midnapore
Dr.Chinmay Kumar Panda	Kolkata
Prof.(Dr.) Vijay Janardhan	Kolhapur
Fulari	
Prof.(Mrs.) Seshu Lavania	Lucknow

Elected Members of the Council

Mr.Gauravendra Swarup	Kanpur
Dr.Nibedita Chakrabarti	Kolkata
Prof.Sunil Prakash Trivedi	Lucknow
Dr.M.G.Ragunathan	Chennai
Dr.C.A.Vasuki	Coimbatore
Prof.B.Reddy Naik	Hyderabad
Prof.C.Muthamizhchelvan	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
-----------------------	-----------

MEMBERS OF THE COUNCIL FOR 2019-2020

General President Prof.K.S.Rangappa, Mysore.	Prof.D.K.Sinha, Prof.S.K.Joshi, Dr.P.Rama Rao, Dr.(Mrs.) Manju Sharma, Dr.R.A.Mashelkar, Dr.R.S.Paroda, Dr.K.Kasturirangan, Prof.Asis Datta, Prof.N.K.Ganguly, Prof.Harsh Gupta, Dr.T.Ramasami, Dr.G.Madhavan Nair, Prof.K.C.Pandey, Prof.Geetha Bali, Dr.Manmohan Singh, Prof.Dr.Ranbir Chander Sobti, Dr.Achyuta Samanta,	Kolkata. New Delhi. Hyderabad. New Delhi. Pune. New Delhi. Bengaluru. New Delhi. Faridabad. Hyderabad. Chennai. Trivandrum. Lucknow. Bengaluru. New Delhi Lucknow. Bhubaneswar.
Immediate Past General President Dr.Manoj Kumar Chakrabarti, Kolkata.		
General President-Elect Dr.(Mrs.) Vijay Laxmi Saxena, Kanpur.		
General Secretary (Membership Affairs) Dr.S.Ramakrishna, Bengaluru		
General Secretary (Scientific Activities) Dr.Anoop Kr.Jain, Kanpur.		
Treasurer Dr.Sheo Satya Prakash, Patna.		
Elected Members of the Executive Committee Dr.Ashok Kumar Saxena, Kanpur. Mr.Gauravendra Swarup, Kanpur. Prof.R.Ramamurthi, Tirupati. Mrs. Rashmi Mittal, Jalandhar. Prof.M.Bhupathi Naidu, Tirupati. Dr.O.N.Paramasivan, Coimbatore. Prof.Sasmita Rani Samanta, Bhubaneswar. Prof.D.Narayana Rao, Guntur. Prof.S.V.Kasmir Raja, Kattankulathur. Prof.K.Byrappa, Mandya.	Past General Secretaries Dr.(Miss) Shashi Prabha Arya, New Delhi. Prof.H.P.Tiwari, Allahabad. Prof.S.P.Mukherjee, Kolkata. Dr.(Mrs.) Yogini Pathak, Vadodara. Prof.Uma Kant, Jaipur. Prof.B.Satyanarayana, Hyderabad. Prof.B.P.Chatterjee, Kolkata. Prof.S.P.Singh, Kurukshetra. Prof.Avijit Banerji, Kolkata. Dr.Nilangshu Bhusan Basu, Kolkata Prof.Arun Kumar, Imphal. Prof.Gangadhar, Bangalore. Prof.Premendu P.Mathur, Bhubaneswar.	
Representative of Department of Science & Technology, Government of India Dr.B.K.Shukla, New Delhi.	Past Treasurers Dr.S.B.Mahato, Kolkata. Prof.Dhyanendra Kumar, Arrah. Prof.Ranjit Kumar Verma, Munger.	
Local Secretaries Dr.Y.G.Shadakshari, Bengaluru. Dr.K.C.Narayanaswamy, Bengaluru.		
Past General Presidents Prof.M.S.Swaminathan, Chennai Prof.R.P.Bambah, Chandigarh. Prof.C.N.R.Rao, Bangalore.	Sectional Presidents Dr.Umakanta Behera, Meghalaya. Prof.Prakash Chandra Joshi, Haridwar. Prof.Sureshbhai M.Makvana, Vallabhvidyanagar. Prof.Diwan S.Rawat, Delhi.	

Prof.R.B.Singh, Delhi.
Dr.Asit Kumar Das, Jamnagar.
Dr.Ranbeer Singh Rawal, Almore.
Prof.Md.Nurul Hoda, New Delhi.
Dr.S.Srikantaswamy, Mysuru.
Prof.S.K.Nimbhorkar, Aurangabad.
Dr.Deep N.Srivastava, New Delhi.
Prof.Sudip Kumar Ghosh, Kharagpur.
Prof.Santhosh Chidangil, Manipal.
Prof.(Ms.) Y.Vimala, Meerut.

Elected Members of the Council

Mrs.Kumkum Swarup, Kanpur.
Dr.Nibedita Chakrabarti, Kolkata.
Prof.Sunil Prakash Trivedi, Lucknow.

Dr.M.G.Ragunathan, Chennai.
Dr.K.T.Chandra Shekar, Mysuru.
Prof.C.Muthamizhchelvan, Kattankulathur.
Dr.A.M.Saxena, Lucknow.

Representative of The Kolkata Municipal Corporation

Mr.Jyoti Prakash Sarkar, 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.

P E R S O N N E L

STAFF AS ON MARCH 31,2019

Executive Secreary

Dr. Amit Krishna De

Office Assistant II

Mr.Kaushik Kumar Nandy
 Mrr.Sudip Kumar Bala
 Mr.Dipankar Dey
 Mr.Sambhu Nath Chatterjee

Assistant Executive Secretary

Dr.Arun Kumar Pandey

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

Section Officer III

Mrs. Indrani Das

Multitasking Staff

Mr.Saikat Mandal
 Mr.Anupam Sarkar
 Mr.Imonkalyan Mukherjee

Office Assistant I

Mr.Santu Kumar Ghosh
 Mrs. Swasti Roy *

Staff Car Driver

Mr.Manojit Sankar Dasgupta

Junior Hindi Translator

Mrs. Debasree Dutta (Saha)

Office Assistant I

Mr.Pijus Ghosh

* Superannuated on 31.01.2019

** Superannuated on 31.12.2018

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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
1 st	1914	Calcutta	Hon Justice Sir Asutosh Mookerjee	About Science Congress
2 nd	1915	Madras	Hon. Surgeon – General Dr. W.B. Bannermen	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 relationship to the Himalayan Mountains
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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
29 th	1942	Baroda	Dr.D.N.Wadia	The Making of India
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	Professor 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	Professor 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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
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	Professor P.Parija	Impact of Society on Science
48 th	1961	Roorkee	Professor N.R.Dhar	Nitrogen Problem
49 th	1962	Cuttack	Dr.B.Mukerji	Impact of Life Sciences on Man
50 th	1963	Delhi	Professor D.S.Kothari	Science and the Universities
51 st	1694	Calcuta	Professor Humayun Kabir	Science and the State
52 nd	1965	Calcuta	Professor Humayun Kabir	-----
53 rd	1966	Chandigarh	Professor B.N.Prasad	Science in India
54 th	1967	Hyderabad	Professor 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	Khragpur	Dr.L.C.Verman	Standardization : A Triple Point Discipline
58 th	1971	Bangalore	Dr.B.P.Pal	Agricultural Science and Human Welfare

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
59 th	1972	Calcutta	Professor 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	Professor R.S.Mishra	Mathematics – Queen or Handmaiden
62 nd	1975	Delhi	Professor (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	Professor R.C.Mehrotra	Science and Technology in India During the Coming Decade(s)
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	Professor R.P.Bambah	Quality Science in India – Ends and Means

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
72 nd	1985	Lucknow	Professor 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	Professor (Mrs.) Archana Sharma	Resources and Human Well-being – Inputs from Science and Technology
75 th	1988	Pune	Professor 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	Professor Yash Pal	Science in Society
78 th	1991	Indore	Professor 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	Professor 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	Professor 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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
85 th	1998	Hyderabad	Professor 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	Professor 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	Professor 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.Subhba Rao	Integrated Rural Development : Science and Technology
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

<i>Session</i>	<i>Session Year</i>	<i>Place</i>	<i>Name</i>	<i>Title of the Presidential Address</i>
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	Dr. D. Narayana Rao	Science and Technology for National Development
105 th	2018	Imphal	Prof Achyuta Samanta	Reaching the Unreached Through Science and Technology
106 th	2019	Jalandhar	Dr.Manoj Kumar Chakrabarti	Future India : Science & Technology

APPENDIX -V

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.Macmohan	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.Dunnicliff	1982-85	Prof (Mrs) Archana Sharma
1932-39	Mr.W.D.West	1983-86	Prof M.K.Singhal
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.Mukerje	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 Kumar Saxena
1962-66	Dr.Atma Ram	2010-2013	Dr.Manoj Kumar Chakrabarti
1965-68	Prof Chandra Shekar 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

**TRESURERS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

<i>Year</i>	<i>Name</i>	<i>Year</i>	<i>Name</i>
1913-14	Dr.R.D.Hooper	1968-71	Dr.S.M.Sircar
1914-16	Dr.J.L.Simonsen	1971-74	Prof A.K.Saha
1916-19	Mr.R.D.Mehta	1974-76	Prof A.K.Sharma
1919-20	Mr.D.R.Bhandarkar	1976-77	Prof. A.K.Saha
1920-21	Mr. W.W.K.Page	1977-80	Prof D.N.Kundu
1920-21	Mr.Oswald Martin	1980-82	Prof (Mrs) A.Sharma
1921-22	Mr.A.H.Harley	1982-85	Prof.D.K.Sinha
1922-23	Mr.W.R.C.Brierley	1985-86	Prof Asok Ghosh
1923-24	Dr.C.V.Raman	1986-88	Dr.S.C.Pakrashi
1924-25	Dr.Baini Prashad	1988-89	Prof.D.K.Sinha
1925-26	Dr.S.L.Hora	1989-91	Dr.D.P.Chakraborty
1927-30	Dr. Baini Prashad	1991-92	Dr.D.Basu
1930-31	Mr.K.C.Mahindra	1992-94	Prof. S.P.Mukherjee
1931-32	Mr.Jas Insch	1994-95	Dr.D.Basu
1932-34	Mr.K.C.Mahindra	1995-98	Dr.S.B.Mahato
1934-37	Dr.S.L.Hora	1998-2000	Prof.A.B.Banerjee
1937-38	Rai Bahadur 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 Banerjee
1949-52	Prof..K.N.Bagchi	2006-2007	Prof.A.B.Banerjee
1952-55	Prof.P.C.Mahalanabis	2009-2010	Prof.B.P.Chaterjee
1955-58	Dr.B.K.Sarkar	2010-2013	Er.N.B.Basu
1958-60	Prof. B.C.Guha	2013-2016	Prof. Dhyanendra Kumar
1960-65	Prof. P.K.Bose	2016-2019	Prof .Ranjit Kumar Verma
1965-68	Prof. (Mrs) Asima Chatterjee		



THE INDIAN SCIENCE CONGRESS ASSOCIATION

AUDIT REPORT AND ACCOUNTS

31st March, 2019



A.V.S.S. & Associates

Chartered Accountants

Branch Office: Poddar Court, 18 Rabindra Sarani, Gate no 1, 5th Floor Room No. 542 Kolkata 700001
Head Office:MSAV-03,Phase-1, Bengal Housing Complex, City Centre, Durgapur-713216

Other Branches: Kolkata, Mumbai

Contact: Dial: +91 8420868317

Fax: +9134-32545664, 033-40719053

Email: rohitashguptadgp@gmail.com

GSTN: 19AAWFA8053B1Z8

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, 2019 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) Grant received from Government during the year is booked in accordance with AS-12. Reconciliation for the same grants has been made available but no reconciliation for difference between total assets account and non recurring fund grant could be made available.
- 2) Liabilities as per books of account in respect of Leave encashment and Gratuity are in excess of liabilities calculated as per actuarial valuation. Further Liabilities as per books of account in respect of Pension is in less than liabilities calculated as per actuarial valuation. (refer to note-18(1,2,3))
- 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 are given below-
 - a) FY- 2018-19 Rs 8,65,769.00 (including TDS on FD of Endowment Fund- Rs- 1,16,075.00)
 - b) FY-2017-18 Rs. 9,51,651.00
 - c) FY-2016-17 Rs. 10,11,501.00

These have not been accounted for resulting in understatement of fund and investment value by Rs. 8,65,769.00 (refer to note no 10 to the Notes to Accounts) for current year and Rs. 9,51,651.00 for 2017-18.

Further non accounting of Income Tax deducted at source Rs. 8,65,769.00 will amount to loss to the Association, since this is not shown as advance income tax in the books of accounts.

- 4) Contingent liability of Rs. 32,40,302 for income tax demand under dispute/appeal for AY 2012-13 have been disclosed refer note no 11 to the Notes to Accounts. However, Current Status of the same could not be made available to us. Further liability (Demand) of Rs 19450.00 in standing in traces (tds). (Refer to Note – 18(9))
- 5) Amount sent to various chapters during 2017-18 total Rs 83,37,607.00 for various purposes were charged off without any relation to the nature of expenses and the actual expenses incurred. Out of 26 chapters 9 chapters have not sent utilization certificates amounting to Rs. 41,15,000.00. Further Chapters have sent utilization certificate of Rs. 7,07,515.00 of earlier years. (refer to note 18 (12))



- 6) The association maintains various fund for different purposes. It is observed that in cases of building fund and Pension fund, the fund balance does not match with the investment value for which no reconciliation is found to have been done.
- 7) Building Fund which was created long back is being carried forward without any action or transaction.
- 8) An amount of Rs 19,67,350 was received in the month of July,2017 along with the application for membership is still lying in Membership Application Account as on the date of audit (refer to note no 18(10))
- 9) The following advances are lying unadjusted for a long time:
- | | | |
|---------|--------------------------------|--------------|
| 2009-10 | Publication information Centre | Rs. 1,500.00 |
| 2012-13 | Ramakrishna Mission Institute | Rs. 8,300.00 |
| 2014-15 | Govt of India (MINT) | Rs. 1,450.00 |
| 2014-15 | Prof W.D. West memo Award fund | Rs. 1,000.00 |
- 10) Inventories consist of Rs. 47,485.52 of damaged stock valued at cost in the year 2017-18 but the actual value of it is low. So it is recommended to write the damaged stock off to give it fair market value. Further inventories include a claim of Rs. 69,639.87.00 against a publisher M/s Seva Mudran.

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. 2,99,96,931.54 in Endowment Fund as on 31/03/2019, Rs. 1,77,54,955.00 is kept in Term Deposit and balance Rs. 1,22,41,976.54 is in savings account. The expenditure (award) in the financial year 2018-19 is 5,89,753.75 and in 2017-18 is Rs. 3,91,615. The reasons for keeping such huge balance in savings account could not be explained.

Our opinion has been modified in these matters.

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, 2019;
- b) In the case of Income and Expenditure Account, of the surplus for the year ended on 31st March, 2019;



- c) In the case of Receipts and Payments Account, of the actual receipts and payments for the year ended on 31st March, 2019 and of the closing cash/Bank balances as on 31st March, 2019.

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 Liabilities on Pension, Gratuity and Leave Encashment (AS-15) and Depreciation of Fixed Assets and its written down value (AS-10):
- 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 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.

**For AVSS & Associates,
Chartered Accountants
FRN:327456E**



**ACA Avijit Singh
Partner,
Membership No. 306958**

Place: Kolkata
Date: 31/07/2019



Basis of Qualification:

1. Grant received from Government during the year is booked in accordance with AS-12. Reconciliation for the same grants has been made available but no reconciliation for difference between total assets account and non recurring fund grant could be made available.

2. Liabilities as per books of account in respect of Leave Encashment and Gratuity are in excess of liabilities calculated as per actuarial valuation. Further Liabilities as per books of account in respect of Pension is in less than liabilities calculated as per actuarial valuation. (refer to note-18 (1,2,3)).

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 are given below –

a) FY – 2018-19 Rs.8,65,769.00 (including TDS on FD of Endowment Fund – Rs.1,16,075.00)

b) FY – 2017-18 Rs.9,51,651.00

c) FY – 2016-17 Rs.10,11,501.00

These have not been accounted for resulting in understatement of fund and investment value by Rs.8,65,769.00 (refer to note no.10 to the Notes to Accounts) for current year and Rs.9,51,651.00 for 2017-18.

Further non account of Income Tax deducted at source Rs.8,65,769.00 will amount to loss to the Association, since this is not shown as advance income tax in the books of accounts.

From this financial year ISCA has started treating capital grant as per AS-12. As for earlier years differences between total assets and non-recurring fund grant had arisen long past. ISCA is reconciling the balances and the same will be provided as soon as it is completed.

The provisions of Gratuity and Leave Encashment adjusted as per the actuarial valuation by M/s. Tower and Watson Ltd., The shortfall of provision of Pension Fund will be adjusted out of the excess provisions of Gratuity and Leave Encashment.

Action will be taken accordingly.

Basis of Qualification:

4. Contingent liability of Rs.32,40,302 for income tax demand under dispute/appeal for AY 2012-13 have been disclosed refer note no.11 to the Notes to Accounts. However, Current Status of the same could not be made available to us. Further liability (Demand) of Rs.19,450.00 in standing in traces (tds). (Refer to Note – 18 (9)

The Income Tax appeal which we filed for the respective year is not yet fixed for hearing.

5. Amount sent to various chapters during 2017-18 total Rs.83,37,607.00 for various purposes were charged off without any relation to the nature of expenses and the actual expenses incurred. Out of 25 chapters 7 chapters have not sent utilization certificates amounting to Rs.41,15,000.00. Further Chapters have sent utilization certificate of Rs.7,07,515.00 of earlier years. (refer to note 18 (12)

Out of 25 chapters only one chapter did not provide utilization certificate till date.

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

The difference in Pension Fund will be reconciled and placed in the next audit. As for Building Fund, the difference in the fund balance was from long past for reason unknown.

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

The matter will be placed in Finance Committee meeting for decision.

8. An amount of Rs.19,67,350 was received in the month of July, 2017 along with the application for membership is still lying in Membership Application Account as on the date of audit (refer to note no 18 (10))

The applicants who have given the said application money are untraceable based on standard procedure carried out. However, the money will be kept upto July 2020 and wait for the applicants to make an undisputed and legal claim till such time. If still any money remains, appropriate action will be taken next year.

9. The following advances are lying unadjusted for a long time:

2009-10 Publication information Centre
Rs.1,500

2012-13 Ramakrishna Mission Institute
Rs.8,300

2014-15 Govt. of India (MINT) Rs.1,450

2014-15 Prof. W.D. West Memo Award Fund
Rs.1,000

Reminder sent to Ramakrishna Mission Institute of Culture, Kolkata. The rest of the balance advances lying in the books as on 31/03/2019 are already adjusted.

10. Inventories consist of Rs.47,485.52 of damaged stock valued at cost in the year 2017-18 but the actual value of it is low. So it is recommended to write the damaged stock off to give it fair market value. Further inventories include a claim of Rs.69,639.87.00 against a publisher M/s. Seva Mudran.

As suggested, the inventories will be adjusted and written off.

Endowment Fund:

- | | |
|--|---|
| 1. Interest on Term Deposits of Endowment Fund has been accounted for on receipt basis and non on accrual basis. | Will be accounted for as per accounting standards |
| 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.2,99,96,931.54 in Endowment Fund as on 31/03/2019, Rs.1,77,54,955/- is kept in Term Deposit and balance Rs.1,22,41,976.54 is in savings account. The expenditure (award) in the financial year 2018-19 is 5,89,753.75 and in 2017-18 is Rs.3,91,615. The reasons for keeping such huge balance in savings account could not be explained. | Action will be taken in discussion with the auditors. |

THE INDIAN SCIENCE CONGRESS ASSOCIATION

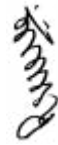
14, DR. BIRESH GUHA STREET, KOLKATA 700 017

Receipts and Payments Account as on 31st March, 2019


R E C E I P T S			P A Y M E N T S				
Particulars	Non - Plan Rs	Plan Rs	Total Rs	Particulars	Non - Plan Rs	Plan Rs	Total Rs
Opening Cash & Bank Balances :				Establishment	2,11,12,129.00	4,59,032.00	2,15,71,161.00
Cash- in- hand	-	-	2,000.00	Contribution to New Pension Scheme Fund	6,54,632.00	-	6,54,632.00
Cash at Bank : State Bank of India	-	-	2,49,10,852.60	Contribution to Staff Pension Fund	45,21,692.00	-	45,21,692.00
: SBI A/c Executive Secretary	-	-	50,000.00	Electricity Charges	-	5,69,018.00	5,69,018.00
: Central Bank of India	-	-	29,61,601.66	Telephone Charges	1,60,452.10	-	1,60,452.10
: Cheques in Hand	-	-	46,263.00	Transport Expenses	63,811.00	-	63,811.00
Membership Subscription (All categories)	38,42,360.00	-	38,42,360.00	Municipal Taxes	888.00	-	888.00
Admission Fees	2,34,200.00	-	2,34,200.00	Prepaid Upgrd. & Invro. Of Existing Facilities	10,216.00	-	10,216.00
Life Membership Subscription	39,52,000.00	-	39,52,000.00	Security Guard Expenses	14,95,144.00	-	14,95,144.00
Postage	-	50,691.00	50,691.00	Cleaning & Building Maintenance	4,81,142.00	-	4,81,142.00
Government Grant	-	4,59,73,000.00	4,59,73,000.00	Leave Travel Concession	1,69,167.00	-	1,69,167.00
Sale of Publications	-	-	-	Insurance	16,027.00	-	16,027.00
Sale of Tender Paper	-	-	-	Guest House Expenses	45,840.00	-	45,840.00
Journal Subscription (Non Members)	-	26,750.00	26,750.00	Advertisement	-	85,813.00	85,813.00
Misc Income	7,68,284.34	-	7,68,284.34	Post. & Sin. For Sec. Pres. & Convenors	-	1,39,911.00	1,39,911.00
Advance Realised :				Upgrd. & Invro. Of Existing Facilities	-	3,71,412.00	3,71,412.00
General	-	-	41,200.00	General Printing	-	39,23,917.30	39,23,917.30
Grant receivable in last year	-	-	-	Sessional Publications	-	6,92,537.50	6,92,537.50
Guest House Lodging Charges	34,100.00	-	34,100.00	Publication of Proceedings	-	6,92,137.50	6,92,137.50
Journal Advertisement	-	-	-	Publication of Journal	-	36,36,665.00	36,36,665.00
Reimb of Service Chgs for ISCA Lecture Hall	96,900.00	-	96,900.00	Re-imbursment of Children Edu Allow	1,87,853.00	-	1,87,853.00
Subscription of Journal	-	2,900.00	2,900.00	Stationery Expenses	-	2,30,850.00	2,30,850.00
Ad-Hoc Bonus	-	5,757.00	5,757.00	Postage	-	48,23,856.00	48,23,856.00
Deposit	1,91,090.00	-	1,91,090.00	Contingency	-	1,60,741.00	1,60,741.00
				Travelling Expenses	-	55,23,022.52	55,23,022.52
				Printing Paper	-	26,808.00	26,808.00
				ISCA Chapters	-	45,79,607.00	45,79,607.00
				Expenses for Organising Seminars, Symposia	-	39,40,000.00	39,40,000.00
				Expenses for Official Languages	-	53,445.00	53,445.00
				Prepaid expenses	62,686.00	-	62,686.00
				Plan Cost of gold	-	6,15,700.00	6,15,700.00
				Advance :	-	-	-
				-General	30,77,252.00	-	30,77,252.00
				-Deposit	3,02,826.00	-	3,02,826.00
				Honorarium to ISCA Platinum Jubilee Lecturers	-	1,20,000.00	1,20,000.00
				Repair & Renovation of Building	-	6,13,117.80	6,13,117.80
				Poster Presentation Awards	-	85,000.00	85,000.00

Receipts and Payments Account as on 31st March, 2019

R E C E I P T S		P A Y M E N T S		Total	
Particulars	Non - Plan Rs	Plan Rs	Particulars	Non - Plan Rs	Plan Rs
			Screening and Evaluation of Paper	-	85,000.00
			Legal Expenses	-	1,20,204.00
			Young Scientists Awards	-	3,50,000.00
			Young Scientists Travelling Expenses	-	1,68,781.00
			Young Scientists Contingency	-	10,500.00
			Sitting Fee	-	11,40,100.00
			Sessional Expenses	-	9,478.00
			Operation & Maintenance of A.C Plant	1,10,330.00	-
			Transfer to Life Membership Subscription Fund	-	64,88,286.00
			Outstanding Liabilities	35,907.00	24,03,608.00
			ISCA office Car	31,907.00	-
			Computer Software	43,440.00	-
			Computer Machines	55,450.00	-
			General Reserve	-	1,00,000.00
			Retention Money	2,49,945.00	-
			Equipment	-	39,730.00
			Prepaid Insurance	22,383.00	-
			Young Scientist Advertisement	-	15,000.00
			Bank Charges	18,520.94	-
			Closing Cash & Bank Balances :	-	-
			Cash- in- hand	-	2,000.00
			Cash at Bank : State Bank of India	-	24,29,496.28
			: Central Bank of India	-	55,24,867.66
			: State Bank of India -Exec Secy	-	-
				3,29,29,640.04	4,21,73,277.62
				3,29,29,640.04	4,21,73,277.62

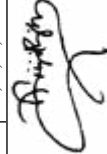

S. Ramakrishna
 General Secretary (Membership Affairs)

Place: Kolkata
 Date : 31/07/2019



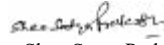

Sheo Satya Prakash
 Treasurer

(C.A. Avijeet Singh)
 Partner
 Membership No 306958

For A V S S & Associates
 Chartered Accountants
 FRN 327456E



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

Balance Sheet as at March 31st ,2019				
				(Amount in Rs.)
	Particulars	Note	As at March 31, 2019	As at March 31, 2018
I	LIABILITIES			
1	FUND			
(a)	Reserves and surplus- Fund	1	12,38,38,297.79	13,17,36,166.20
	- Grant	1a	2,37,85,407.67	2,37,85,407.67
	- Capital		11,67,000.00	-
2	Non - current liabilities:			
(a)	Long - term provisions	2	4,85,23,840.35	4,73,63,222.45
3	Current liabilities			
(a)	Other current liabilities	3	46,79,250.25	77,49,834.00
	Total		20,19,93,796.06	21,06,34,630.32
II	ASSETS			
1	Non - current assets:			
(a)	Fixed assets			
(i)	Tangible assets	4	2,66,33,789.59	2,72,77,082.23
(ia)	Capital work-in-progress - Tangible	4	52,493.00	8,55,924.00
(ii)	Intangible assets	4	-	-
(iia)	Capital work-in-progress - Intangible	4	-	-
(b)	Non - current investments	5	16,16,78,470.70	15,06,59,046.00
(c)	Long-term loans and advances	6	30,48,303.00	11,68,675.00
(d)	Other non-current assets	7	3,87,914.51	3,92,414.51
2	Current assets:			
(a)	Inventories	8	47,485.32	47,485.32
(b)	Cash and cash equivalents	9	79,91,131.94	2,79,74,657.26
(c)	Short-term loans and advances	10	32,400.00	36,000.00
(d)	Other current assets	11	21,21,808.00	22,23,346.00
	Total		20,19,93,796.06	21,06,34,630.32
	Significant accounting policies	17		
	Notes to accounts	18		
The notes are an integral part of these financial statements.				
As per our attached report of even date				
<p>For A.V. S .S & Associates Chartered Accountants FRN 327456E</p> <div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="text-align: center;">  ACA Avijit Singh Partner MNO:306958 </div> <div style="text-align: center;">  Dr. S. Ramakrishna General Secretary (Membership Affairs) </div> <div style="text-align: center;">  Dr. Sheo Satya Prakash Treasurer </div> </div> <p>Place: Kolkata Date:31/07/2019</p>				

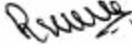
THE INDIAN SCIENCE CONGRESS ASSOCIATION
14, Dr Biresw Guha Street, Kolkata 700017
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2019


Sr. No	Particulars	NOTE	2018-19	2017-18
			Rs	Rs
A.	INCOMES			
1	Grant From Government	12	4,48,06,000.00	4,50,00,000.00
	Less: Trf to Asutosh Mookerjee Fund		-	-
	Less: Trf to Plan Construction to Building Fund		-	(61,60,046.00)
	Less: Trf to Non Recurring Fund Grant		-	(13,06,271.00)
			4,48,06,000.00	3,75,33,683.00
2	Income From Other Activities	13	50,14,468.34	63,65,705.44
			4,98,20,468.34	4,38,99,388.44
B.	EXPENDITURE			
3	Expenses on Scientific Activities & Awards	14	1,67,23,584.00	1,82,12,277.00
4	Other Expenses	15	1,94,84,369.24	1,65,07,782.24
5	Employees' Benefit Expenses	16	2,71,45,023.00	1,99,02,813.00
6	Depreciation	4	16,38,041.31	17,68,925.86
			6,49,91,017.55	5,63,91,798.10
	Excess of Income Over Expenditure		(1,51,70,549.21)	(1,24,92,409.66)
	Add : Surplus/(Deficit)Carried over from Last Year		44,42,419.71	1,69,34,829.37
			(1,07,28,129.50)	44,42,419.71
	Significant Accounting Policies	17		
	Notes on Account	18		
	In terms of our report of even date annexed hereto.			

For A . V . S . S & Associates
Chartered Accountants
FRN 327456E


ACA Avijit Singh
Partner
MNO:306958




Dr. S. Ramakrishna
General Secretary (Membership Affairs)


Dr. Sheo Satya Prakash
Treasurer

Place: Kolkata
Date : 31/07/2019

Notes to Financial Statement

For the year ended 31st March 2019

NOTE 1 Fund	Year Ended 31.03.2019	Year Ended 31.03.2018
	Amount	Amount
	Rs	Rs
Other Fund		
General Fund		
Opening Balance	13,10,709.84	13,07,519.25
Addition during the Year	3,467.64	3,190.59
Payment made during the year	-	-
Net Balance at the end of the year	13,14,177.48	13,10,709.84
Reserve Fund		
Opening Balance	69,88,058.69	64,50,283.24
Addition during the Year	5,54,590.01	5,37,775.45
Net Balance at the end of the year	75,42,648.70	69,88,058.69
Public Information Officer Fund		
Opening Balance	3,940.00	3,940.00
Addition during the Year	160.00	-
Net Balance at the end of the year	4,100.00	3,940.00
Sir Asutosh Mookerjee Fellowship Award Fund		
Opening Balance	29,68,318.00	46,51,753.00
Addition during the Year	58,232.00	1,50,565.00
Less Payments during the year	27,60,000.00	18,34,000.00
Net Balance at the end of the year	2,66,550.00	29,68,318.00
Total	91,27,476.18	1,12,71,026.53
Asset Fund		
Building Fund		
Opening Balance	10,79,989.18	10,31,750.02
Addition during the Year	51,488.47	48,239.16
Net Balance at the end of the year	11,31,477.65	10,79,989.18
House Building Advance Fund		
Opening Balance	10,53,697.46	9,97,205.99
Addition during the Year	59,585.10	56,491.47
Net Balance at the end of the year	11,13,282.56	10,53,697.46
ISCA Development Fund		
Opening Balance	1,22,62,832.49	1,16,12,938.03
Addition during the Year	6,35,046.89	6,49,894.46
Net Balance at the end of the year	1,28,97,879.38	1,22,62,832.49
Plan Construction of Building Fund		
Opening Balance	1,75,07,545.32	1,13,47,499.32
Addition during the Year	-	61,60,046.00
Net Balance at the end of the year	1,75,07,545.32	1,75,07,545.32
Total	3,26,50,184.91	3,19,04,064.45

	Year Ended 31.03.2019 Amount	Year Ended 31.03.2018 Amount
Life Membership Subscription Fund		
Opening Balance	8,41,18,655.51	7,45,09,541.64
Addition during the Year	97,86,128.39	1,08,78,077.87
	9,39,04,783.90	8,53,87,619.51
less - payment during the year	11,16,017.70	12,68,964.00
Net Balance at the end of the year	9,27,88,766.20	8,41,18,655.51
Total	9,27,88,766.20	8,41,18,655.51
Credit Balance in Income Expenditure Account		
	Rs	Rs
Opening Balance	44,42,419.71	1,69,34,829.37
Addition during the Year	(1,51,70,549.21)	(1,24,92,409.66)
Net Balance at the end of the year	(1,07,28,129.50)	44,42,419.71
Total	12,38,38,297.79	13,17,36,166.20
NOTE 1a		
Grant		
Non Recurring Fund Grant		
Opening Balance	2,37,85,407.67	2,24,79,136.67
Addition during the Year		13,06,271.00
Net Balance at the end of the year	2,37,85,407.67	2,37,85,407.67
NOTE 2		
Non - Current Liabilities		
Long Term Provision		
Gratuity Fund		
Opening Balance	1,75,17,054.83	1,66,93,570.31
Addition during the Year	8,37,033.28	8,23,484.52
	1,83,54,088.11	1,75,17,054.83
Less Payments during the year	6,38,765.00	-
AddTransfer to Fund	-	-
Net Balance at the end of the year	1,77,15,323.11	1,75,17,054.83
Pension Fund		
Opening Balance	1,69,27,099.21	1,61,92,971.11
Addition during the Year (Interest)	8,58,324.94	7,74,977.00
Addition during the Year (other transfer)	46,60,888.00	13,73,457.10
	2,24,46,312.15	1,83,41,405.21
Less Payments during the year	48,28,672.00	14,14,306.00
Net Balance at the end of the year	1,76,17,640.15	1,69,27,099.21
Leave Encashment Fund		
Opening Balance	1,29,19,068.41	1,22,44,366.98
Addition during the Year	6,38,936.68	6,74,701.43
	1,35,58,005.09	1,29,19,068.41
Less Payments during the year	3,67,128.00	-
AddTransfer to Fund	-	-
Net Balance at the end of the year	1,31,90,877.09	1,29,19,068.41
Total	4,85,23,840.35	4,73,63,222.45

NOTE 3

Current liabilities

Outstanding Liabilities

	Year Ended 31.03.2019 Amount	Year Ended 31.03.2018 Amount
Non Plan	42,639.00	35,870.00
Plan	22,73,619.25	49,98,992.00
	<hr/> 23,16,258.25	<hr/> 50,34,862.00

Deposits

As per Last Account	4,40,240.00	4,54,628.00
Add: Addition	2,00,790.00	-
Less: payment	3,02,826.00	14,388.00
	<hr/> 3,38,204.00	<hr/> 4,40,240.00

Plan Retention Money

Opening	3,06,682.00	1,27,288.00
Addition during the year	47,556.00	1,79,394.00
Less payment during the year	2,97,501.00	-
Net Balance at the end of the year	<hr/> 56,737.00	<hr/> 3,06,682.00

Advance

Membership Subscription	701.00	700.00
Membership Application Money	19,67,350.00	19,67,350.00
	<hr/> 19,68,051.00	<hr/> 19,68,050.00
Total	<hr/> 46,79,250.25	<hr/> 77,49,834.00

The Indian Science Congress Association

NOTE-4 Fixed Assets Schedule for 2018-2019

Particulars	Rate	Original Cost	Addition	Sale/	Total Cost	Depreciation	Deprecia- tion	Adjust- ment	Total	Net Block	Net Block	Depreciation
		as on 01-04-18	Adjustment	Rs	as on 31-03-19	upto 31-03-18	for the year	of Depr.	as on 31-03-19	as on 31-03-19	as on 31-03-18	to 31-03-10 not considered
		Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
1) AGAINST BUILDING FUND												
Main Building	10	4,32,682.25	-	-	4,32,682.25	78,892.31	16,163.71	-	95,056.02	3,37,626.23	3,53,789.94	1,92,152.83
Annexe Building	10	64,191.61	-	-	64,191.61	11,907.49	468.70	-	12,376.19	51,815.45	52,284.15	47,597.14
TOTAL		4,96,873.86	-	-	4,96,873.86	90,799.80	16,632.41	-	1,07,432.21	3,89,441.69	4,06,074.08	2,39,749.97
2) AGAINST PLAN GRANT FOR REFURBISHING OFFICE												
i) Construction of Additional Building with Refurbishing	10	89,35,512.82	-	-	89,35,512.82	13,69,625.45	6,44,275.71	-	20,13,901.16	69,21,611.64	75,65,887.35	11,23,130.28
ii) Tubewell	10	4,67,573.12	-	-	4,67,573.12	32,297.03	1,271.16	-	33,568.19	4,34,004.93	4,35,276.09	4,22,564.50
iii) Air Conditioning of Lecture Hall	10	37,44,567.74	-	-	37,44,567.74	3,64,578.54	60,862.97	-	4,25,441.51	33,19,126.24	33,79,989.21	28,32,222.50
TOTAL		1,31,47,653.68	-	-	1,31,47,653.68	17,66,501.03	7,06,409.84	-	24,72,910.86	1,06,74,742.81	1,13,81,152.66	43,77,917.28
3) AGAINST NON-PLAN GRANT NON-RECURRING FUND GRANT												
i) Fax Machine	10	51,979.20	-	-	51,979.20	1,339.09	52.64	-	1,391.73	50,587.46	50,640.11	50,113.08
ii) EPABX Machine	10	1,72,920.00	-	-	1,72,920.00	47,376.05	3,180.98	-	50,557.03	1,22,362.97	1,25,543.95	93,734.15
TOTAL		2,24,899.20	-	-	2,24,899.20	48,715.14	3,233.62	-	51,948.76	1,72,950.43	1,76,184.05	1,43,847.23
4) AGAINST GARAGE BUILDING FUND GRANT												
Garage Building	10	10,701.95	-	-	10,701.95	2,366.10	93.11	-	2,459.21	8,242.74	8,335.85	7,404.66
TOTAL		10,701.95	-	-	10,701.95	2,366.10	93.11	-	2,459.21	8,242.74	8,335.85	7,404.66
5) AGAINST NON-PLAN GRANT FOR TYPEWRITER												
i) Typewriter	10	9,088.79	-	-	9,088.79	17.45	0.71	-	18.16	9,070.62	9,071.33	9,064.26
TOTAL		9,088.79	-	-	9,088.79	17.45	0.71	-	18.16	9,070.62	9,071.33	9,064.26

Particulars	Rate	Original Cost as on 01-04-18	Addition Adjustment	Sale/ Rs	Total Cost as on 31-03-19	Depreciation upto 31-03-18	Depreciation for the year	Adjustment of Depr.	Total as on 31-03-19	Net Block as on 31-03-19	Net Block as on 31-03-18	Depreciation up to 31-03-10 not considered
6) AGAINST PLAN NON-RE-CURRING												
FUND GRANT												
i) Typewriter	10	48,417.49	-	-	48,417.49	3,859.35	151.87	-	4,011.22	44,406.26	44,558.14	43,039.44
ii) Furniture												
General	10	11,45,142.81	-	-	11,45,142.81	3,92,276.72	37,549.96	-	4,29,826.68	7,15,316.13	7,52,866.09	3,77,366.51
Lecture Hall	10	90,726.00	-	-	90,726.00	49,204.63	3,021.50	-	52,226.13	38,499.87	41,521.37	11,306.40
Guest House	10	9,06,584.00	-	-	9,06,584.00	4,85,816.27	37,539.90	-	5,23,356.17	3,83,227.83	4,20,767.76	45,368.79
AirConditioning of Main Building	10	11,81,906.49	-	-	11,81,906.49	4,66,817.47	28,152.97	-	4,94,970.44	6,86,936.05	7,15,089.02	4,33,559.37
iii) AirConditioning of Annex Building	10	4,36,044.00	-	-	4,36,044.00	85,218.29	28,268.75	-	1,13,487.04	3,24,284.96	3,52,553.71	69,866.25
iv) Duplicating Machine	10	17,748.90	-	-	17,748.90	918.17	36.12	-	954.29	16,794.61	16,830.73	16,469.58
v) Fixture	10	35,755.75	-	-	35,755.75	2,748.40	108.19	-	2,856.59	32,899.16	33,007.35	31,925.46
vi) Electronic Typewriter	10	31,642.97	-	-	31,642.97	1,630.76	64.17	-	1,694.92	29,948.04	30,012.20	29,370.49
vii) Xerox Machine	10	80,529.61	-	-	80,529.61	47,179.97	3,334.96	-	50,514.93	30,014.68	33,349.64	-
viii) Computer	60	9,43,248.99	55,450.00	-	9,98,698.99	4,85,440.85	10,971.17	-	4,96,412.02	5,02,286.97	4,57,808.14	4,42,547.90
ix) Projectors	10	52,600.00	-	-	52,600.00	20,234.45	3,236.55	-	23,471.00	29,128.99	32,365.54	1,01,335.90
x) Construction of Boundary Wall	10	1,01,656.95	-	-	1,01,656.95	11,597.47	456.49	-	12,053.96	89,602.99	90,059.48	85,494.63
xi) Digitization of ISCA Old Proceedings	60	1,68,786.10	-	-	1,68,786.10	60,524.63	0.61	-	60,525.24	1,08,260.87	1,08,261.48	1,08,260.46
xii) Modernisation of ISCA Exhib Board	10	3,17,425.00	-	-	3,17,425.00	1,20,480.06	12,958.11	-	1,33,438.17	1,83,986.83	1,96,944.94	67,363.86
Xiii) PA Systems	10	84,725.00	-	-	84,725.00	32,860.79	1,293.42	-	34,154.21	50,570.79	51,864.21	38,930.03
xiv) Email	60	13,500.00	-	-	13,500.00	13,499.00	-	-	13,499.00	1.00	1.00	-
xv) Office Car	15	7,11,986.00	-	-	7,11,986.00	1,32,868.41	47,215.99	-	1,80,084.40	5,31,901.59	5,79,117.58	2,64,344.30
xvi) Web Site	60	65,900.00	-	-	65,900.00	42,986.13	20.17	-	43,006.30	22,893.70	22,913.87	22,880.26
xvii) Laptop	60	3,57,860.00	-	-	3,57,860.00	3,44,757.80	7,861.32	-	3,52,619.12	5,240.88	13,102.20	-
xviii) Software	60	5,98,247.00	-	-	5,98,247.00	5,98,246.00	-	-	5,98,246.00	1.00	1.00	-
TOTAL		73,90,433.06	55,450.00	-	74,45,883.06	33,99,165.62	2,22,242.19	-	36,21,407.81	38,26,203.22	39,92,995.45	21,89,429.63

Particulars	Rate	Original Cost as on 01-04-18	Addition	Sale/ Adjustment	Total Cost as on 31-03-19	Depreciation upto 31-03-18	Deprecia- tion for the year	Adjust- ment of Depr.	Total as on 31-03-19	Net Block as on 31-03-19	Net Block as on 31-03-18	Depreciation up to 31-03-10 not considered
7)												
AGAINST NON-RECURRING GRANT												
FROM NATIONAL ACADEMY OF AGRICULTURAL SCIENCE												
Computer with Printer	60	2,86,825.00	-	-	2,86,825.00	13,262.61	0.13	-	13,262.74	2,73,562.26	2,73,562.39	2,73,562.17
Installation of Lan	60	50,500.00	-	-	50,500.00	2,356.09	0.02	-	2,356.11	48,143.89	48,143.91	48,143.87
Furniture	10	52,190.00	-	-	52,190.00	19,725.22	776.33	-	20,501.55	31,688.45	32,464.78	24,701.39
TOTAL		3,89,515.00	-	-	3,89,515.00	35,343.92	776.50	-	36,120.41	3,53,394.59	3,54,171.09	3,46,407.43
PLAN SUBSCRIPTION OF JOURNAL	60	47,79,304.46	-	-	47,79,304.46	8,53,773.43	335.19	-	8,54,108.62	39,25,195.84	39,25,531.03	39,24,972.39
TOTAL		47,79,304.46	-	-	47,79,304.46	8,53,773.43	335.19	-	8,54,108.62	39,25,195.84	39,25,531.03	39,24,972.39
8)												
AGAINST PLAN AD-HOC FUND GRANT												
Repair & Renovation	100	17,348.60	-	-	17,348.60	17,348.60	-	-	17,348.60	-	-	-
Airconditioning for Guest House	10	52,750.90	-	-	52,750.90	37,852.53	1,489.84	-	39,342.37	13,408.53	14,898.37	-
Electro Copier Machine	10	22,080.00	-	-	22,080.00	15,843.77	623.62	-	16,467.39	5,612.61	6,236.23	-
TOTAL		92,179.50	-	-	92,179.50	71,044.90	2,113.46	-	73,158.36	19,021.14	21,134.61	-
9)												
NON EARMARKED FIXED ASSETS												
Furniture & Fixtures												
General	10	8,407.84	-	-	8,407.84	513.76	20.20	-	533.96	7,873.88	7,894.08	7,692.11
Library	10	8,153.95	-	-	8,153.95	5,851.11	230.28	-	6,081.39	2,072.56	2,302.85	-
Lecture Hall	10	41,454.45	-	-	41,454.45	29,746.41	1,170.80	-	30,917.21	10,537.24	11,708.04	-
Office & Record Room	10	23,228.54	-	-	23,228.54	16,668.01	656.05	-	17,324.06	5,904.48	6,560.53	-
Guest House	10	7,847.20	-	-	7,847.20	5,631.16	221.60	-	5,852.76	1,994.44	2,216.04	-
Equipment	10	5,95,281.00	56,138.00	585.58	6,50,833.42	1,23,856.28	69,650.98	-	1,93,507.26	4,57,326.16	4,94,625.08	-
TOTAL		6,84,372.98	56,138.00	585.58	7,39,925.40	1,82,266.73	71,949.92	-	2,54,216.65	4,85,708.75	5,25,306.61	7,692.11

NOTE 5

Non - Current Investments

	Year Ended 31.03.2019 Amount	Year Ended 31.03.2018 Amount
	Rs	Rs
General Fund		
In Term Deposit	52,277.09	52,277.09
In Bank	3,467.64	-
	<u>55,744.73</u>	<u>52,277.09</u>
Reserve Fund		
In Term Deposit	71,96,165.23	67,00,622.22
In Bank	3,46,483.47	2,37,436.47
	<u>75,42,648.70</u>	<u>69,38,058.69</u>
Pension Fund		
In Term Deposit	1,39,70,897.15	1,31,12,572.21
In Bank	38,30,180.00	39,97,964.00
	<u>1,78,01,077.15</u>	<u>1,71,10,536.21</u>
Building Fund		
In Term Deposit	7,63,650.86	7,13,692.39
In Bank	44,670.93	43,140.93
	<u>8,08,321.79</u>	<u>7,56,833.32</u>
Life Membership Subscription Fund		
In Term Deposit	7,46,59,412.77	7,02,57,697.38
In Bank	1,56,27,353.43	88,22,672.13
	<u>9,02,86,766.20</u>	<u>7,90,80,369.51</u>
Gratuity Fund		
In Term Deposit	97,17,857.41	91,72,453.13
In Bank	79,97,465.70	83,44,601.70
	<u>1,77,15,323.11</u>	<u>1,75,17,054.83</u>
House Building Advance Fund		
In Term Deposit	7,78,964.47	7,30,828.37
In Bank	3,34,318.08	3,22,869.08
	<u>11,13,282.55</u>	<u>10,53,697.45</u>
ISCA Development Fund		
In Term Deposit	90,53,170.52	89,51,819.63
In Bank	38,44,708.86	33,11,012.86
	<u>1,28,97,879.38</u>	<u>1,22,62,832.49</u>
ISCA Leave Encashment Fund		
In Term Deposit	73,75,837.09	69,46,245.41
In Bank	58,15,040.00	59,72,823.00
	<u>1,31,90,877.09</u>	<u>1,29,19,068.41</u>
ISCA Asutosh Mookherjee Fund		
In Term Deposit	-	-
In Bank	2,66,550.00	29,68,318.00
	<u>2,66,550.00</u>	<u>29,68,318.00</u>
Total	<u>16,16,78,470.70</u>	<u>15,06,59,046.00</u>

	Year Ended 31.03.2019 Amount	Year Ended 31.03.2018 Amount
NOTE 6		
Long-Term loans and advances		
Advance - General	30,48,303.00	11,68,675.00
Advance to Staff	-	-
Grant. Receivable from Govt.	-	-
	<u>30,48,303.00</u>	<u>11,68,675.00</u>
NOTE 7		
Other non-current assets		
Security Deposit for High Tension Line	3,76,914.51	3,76,914.51
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
	<u>3,87,914.51</u>	<u>3,92,414.51</u>
NOTE 8		
Inventories		
	Rs	Rs
Stock of Printing Paper	1,17,125.19	1,17,125.19
Less: Provision for Damaged Stock of Paper	(69,639.87)	(69,639.87)
	<u>47,485.32</u>	<u>47,485.32</u>
NOTE 9		
Cash and Cash Equivalents		
Cash	2,000.00	2,000.00
Current Account		
-State Bank of India	24,29,496.28	2,49,10,852.60
-Central Bank of India	55,24,867.66	29,61,601.66
-State Bank of India A/c Executive Secretary	30,668.00	50,000.00
-Cheques in Hand	-	46,263.00
Savings Account		
-Public Information Officer with Bank	4,100.00	3,940.00
	<u>79,91,131.94</u>	<u>2,79,74,657.26</u>
NOTE 10		
Short-term loans and advances		
Festival Advance	32,400.00	36,000.00
	<u>32,400.00</u>	<u>36,000.00</u>
NOTE 11		
Other current assets		
Prepaid Expense	59,998.00	1,63,717.00
Prepaid Upgradation of Improv of Exis.Facilities	-	-
Prepaid Insurance	22,383.00	23,290.00
Advance Tax - Income Tax Appeal	20,36,339.00	20,36,339.00
- CESC Ltd	3,088.00	-
	<u>21,21,808.00</u>	<u>22,23,346.00</u>

INCOMES	2018-19			2017-2018		
	Plan	Non Plan	Total	Plan	Non Plan	Total
NOTE-12						
Grant from Government	Rs 4,48,06,000.00	Rs -	Rs 4,48,06,000.00	Rs 4,50,00,000.00	Rs -	Rs 4,50,00,000.00
	4,48,06,000.00	-	4,48,06,000.00	4,50,00,000.00	-	4,50,00,000.00
NOTE-13						
Income From Other Activities	Plan	Non Plan	Total	Plan	Non Plan	Total
Membership Subscription Received	Rs	Rs	Rs	Rs	Rs	Rs
Less: Transfer to Reserve Fund	-	28,54,361.00	28,54,361.00	-	43,98,743.44	43,98,743.44
		50,000.00	50,000.00		50,000.00	50,000.00
		28,04,361.00	28,04,361.00		43,48,743.44	43,48,743.44
Add: Admission Fee		2,34,200.00	2,34,200.00		5,22,550.00	5,22,550.00
Add: Transfer from Life Membership Subscription Fund		9,88,000.00	9,88,000.00		12,59,571.00	12,59,571.00
		40,26,561.00	40,26,561.00		61,30,864.44	61,30,864.44
Guest House Lodging Charges		34,100.00	34,100.00		9,700.00	9,700.00
Reimbursement of Service Charges of ISCA Lecture Hall (Net)		96,900.00	96,900.00		57,500.00	57,500.00
Postage	50,691.00	-	50,691.00	-	14,450.00	14,450.00
Misc Income	-	7,79,466.34	7,79,466.34	-	93,331.00	93,331.00
Sale of Publications	-	-	-	-	11,260.00	11,260.00
Plan Sale of Tender Papers	-	-	-	-	6,200.00	6,200.00
Journal Subscription (Non Members)	26,750.00	-	26,750.00	42,400.00	-	42,400.00
Interest Income (Accrued)	-	-	-	-	-	-
General Fund	-	3,467.64	3,467.64	-	3,190.59	3,190.59
Building Fund	-	51,488.47	51,488.47	-	48,239.16	48,239.16
Gratuity Fund	-	8,37,033.28	8,37,033.28	-	8,23,484.52	8,23,484.52
House Building Advance Fund	-	59,585.10	59,585.10	-	56,491.47	56,491.47
ISCA Development Fund	-	6,35,046.89	6,35,046.89	-	6,49,894.46	6,49,894.46
Life Membership Subscription	-	48,46,128.39	48,46,128.39	-	45,70,827.87	45,70,827.87
Pension Fund	-	9,97,520.94	9,97,520.94	-	7,74,977.00	7,74,977.00
Reserve Fund	-	5,04,590.01	5,04,590.01	-	5,37,775.45	5,37,775.45
Public Information Officer Fund	-	160.00	160.00	-	-	-
Leave Encashment Fund	-	6,38,936.68	6,38,936.68	-	6,74,701.43	6,74,701.43
	77,441.00	1,35,10,984.74	1,35,88,425.74	42,400.00	1,44,62,887.39	1,45,05,287.39
Less: Transfer to Fund (Interest Accrued but not due)	-	85,73,957.40	85,73,957.40	-	81,39,581.95	81,39,581.95
	77,441.00	49,37,027.34	50,14,468.34	42,400.00	63,23,305.44	63,65,705.44

EXPENDITURES

NOTE-14

	2018-19			2017-18		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Rs	Rs	Rs	Rs	Rs	Rs
EXPENSES ON SCIENTIFIC ACTIVITIES & AWARD						
Sessional Expenses	9,478.00	-	9,478.00	27,305.00	-	27,305.00
Travelling Expenses	55,78,938.00	-	55,78,938.00	65,32,669.00	-	65,32,669.00
Sitting fee	11,60,100.00	-	11,60,100.00	15,30,000.00	-	15,30,000.00
ISCA Chapters	45,79,607.00	-	45,79,607.00	51,67,833.00	-	51,67,833.00
Seminars, Symposia, Discussion & Lectures	39,40,000.00	-	39,40,000.00	38,52,826.00	-	38,52,826.00
Honorarium to ISCA Platinum Jubilee Lectures	1,20,000.00	-	1,20,000.00	90,000.00	-	90,000.00
Pt. Jawarharlal Nehru Birth Centenary Awards	-	-	-	-	-	-
Pt. Jawarharlal Nehru Prize	-	-	-	-	-	-
Poster Presentation Award	85,000.00	-	85,000.00	95,000.00	-	95,000.00
Cost of Gold Medals & Plaques	6,15,700.00	-	6,15,700.00	2,08,000.00	-	2,08,000.00
Membership Subscription	-	-	-	-	-	-
Binding Charges for Periodicals	-	-	-	-	-	-
101st Science Congress	-	-	-	-	-	-
Young Scientists:						
Awards	3,50,000.00	-	3,50,000.00	3,50,000.00	-	3,50,000.00
Travelling Expenses	1,74,261.00	-	1,74,261.00	2,32,644.00	-	2,32,644.00
Publication	-	-	-	-	-	-
Stationery	-	-	-	-	-	-
Advertisement	15,000.00	-	15,000.00	30,000.00	-	30,000.00
Contingency	10,500.00	-	10,500.00	11,000.00	-	11,000.00
Expenses for Delegation to Meetings Abroad	-	-	-	-	-	-
Screening / evaluation of paper	85,000.00	-	85,000.00	85,000.00	-	85,000.00
Exhibition	-	-	-	-	-	-
	1,67,23,584.00	-	1,67,23,584.00	1,82,12,277.00	-	1,82,12,277.00

NOTE-15

NOTE-15

	2018-19			2017-18		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Rs	Rs	Rs	Rs	Rs	Rs
Other Expenses						
Telephone Expenses	-	2,09,576.10	2,09,576.10	-	91,224.00	91,224.00
Transport Expenses	-	95,718.00	95,718.00	-	69,462.00	69,462.00
Municipal Tax	-	889.00	889.00	-	2,310.00	2,310.00
Security Guard Expenses	-	16,31,030.00	16,31,030.00	-	16,24,407.00	16,24,407.00
Audit Fees	-	29,500.00	29,500.00	-	35,400.00	35,400.00
Cleaning & Building Maintenance	-	4,81,142.00	4,81,142.00	-	4,93,398.00	4,93,398.00

Postage & Stationery for Sectional President	1,58,687.00	1,58,687.00	2,12,000.00	-	2,12,000.00
Advertisement	1,75,813.00	1,75,813.00	93,846.00	-	93,846.00
Electricity Charges	6,43,599.00	6,43,599.00	6,53,817.00	-	6,53,817.00
Upgradation & Improvement of Existing Facilities	5,27,237.52	5,27,237.52	3,18,180.00	-	3,18,180.00
General Printing	14,98,336.30	14,98,336.30	19,76,271.00	-	19,76,271.00
Guest House Expenses	45,840.00	45,840.00	-	2,26,486.00	2,26,486.00
Insurance	39,317.00	39,317.00	-	40,500.00	40,500.00
Bank Charges	18,520.94	18,520.94	-	13,129.68	13,129.68
Operation and Maintenance of A.C.Plant	1,20,360.00	1,20,360.00	-	1,09,820.00	1,09,820.00
Profit and loss on sale of fixed assets	15,785.58	15,785.58	-	-	-
Damaged Stock of Paper	-	-	-	-	-
OTHER OPERATION EXPENSES					
Stationery Expenses	2,33,131.00	2,33,131.00	99,559.00	-	99,559.00
Postage	48,25,013.00	48,25,013.00	52,80,769.00	-	52,80,769.00
Contingencies	1,99,344.00	1,99,344.00	1,69,887.00	-	1,69,887.00
Repair & Renovation of Building	6,13,117.80	6,13,117.80	59,028.00	-	59,028.00
Legal Expenses	1,20,204.00	1,20,204.00	3,15,976.00	-	3,15,976.00
Contingency Expenses for Meeting with Official Language	53,445.00	53,445.00	16,655.00	-	16,655.00
PUBLICATION EXPENSES					
Sessional Publication	6,92,537.50	6,92,537.50	8,57,933.00	-	8,57,933.00
Publication of Proceedings	6,92,137.50	6,92,137.50	8,57,934.00	-	8,57,934.00
Publication of Journals	63,37,280.00	63,37,280.00	28,62,861.00	-	28,62,861.00
Cost of Printing Paper	26,808.00	26,808.00	26,929.56	-	26,929.56
Focal Theme Publication	-	-	-	-	-
	1,67,96,690.62	26,87,678.62	1,94,84,369.24	27,06,136.68	1,65,07,782.24

ISCA Annual Report 2018 - 2019

	2018-19		2017-18		Total
	Plan	Non Plan	Plan	Non Plan	
NOTE-16					
Employees' Benefit Expenses					
Establishment	Rs	Rs	Rs	Rs	Rs
Ad-hoc Bonus	5,29,194.00	2,10,88,242.00	2,16,17,436.00	4,99,207.00	1,43,04,024.00
Contribution to Staff New Pension Scheme	-	(5,757.00)	(5,757.00)	-	-
Contribution to Staff Gratuity Fund	-	6,54,632.00	6,54,632.00	-	4,46,617.00
Contribution to Staff Pension Fund	-	45,21,692.00	45,21,692.00	-	43,31,297.00
Contribution to Leave Encashment	-	1,69,167.00	1,69,167.00	-	1,84,911.00
Leave Travel Concession	-	-	-	-	-
Staff Liveries	-	-	-	-	-
Re-imbursment of Children Educational Allowance	-	1,87,853.00	1,87,853.00	-	1,36,757.00
	5,29,194.00	2,66,15,829.00	2,71,45,023.00	4,99,207.00	1,94,03,606.00
					1,99,02,813.00

Schedule 1A**Reconciliation of Life Membership Subscription Fund with Investment and Bank**

Life Membership Subscription Fund		Rs	
Opening Balance as on 01-04-2018			8,41,18,655.51
Add: Subscription received during the year 2018-2019		Rs 49,40,000.00	
Add: Interest Accrued during the year as detailed below			
	<u>TDR NO</u>	<u>Rs</u>	
	32399434877	3,00,286.19	
	32654087378	80,432.90	
	33171568280	4,91,469.26	
	33062685839	6,27,146.02	
	33251159345	5,05,978.67	
	33529725604	1,70,474.37	
	30275144311	1,44,481.01	
	10959318622	4,57,245.34	
	34169506239	2,37,534.95	
	10959318633	2,04,065.43	
	37580408810	7,73,180.33	
	34803843458	4,09,420.92	44,01,715.39
Savings Bank Interest 31-03-2019		4,44,413.00	
		4,44,413.00	97,86,128.39
			<u>9,39,04,783.90</u>
Less : 20% Transferred to ISCA as Membership Income			9,88,000.00
Less : Expenses incurred by Fund			1,28,017.70
			<u>9,27,88,766.20</u>
			<u>Balance of Life Membership Fund (A)</u>

Life Membership Investment Rs
 Balance as per Last Account 7,02,57,697.38

Add: Interest Accrued during the year

TDR No	Rs
32399434877	3,00,286.19
32654087378	80,432.90
33171568280	4,91,469.26
33062685839	6,27,146.02
33251159345	5,05,978.67
33529725604	1,70,474.37
30275144311	1,44,481.01
10959318622	4,57,245.34
34169506239	2,37,534.95
10959318633	2,04,065.43
37580408810	7,73,180.33
34803843458	4,09,420.92
	44,01,715.39
	(B) <u>7,46,59,412.77</u>

Life Membership Bank A/c State Bank of India

Rs Rs

Opening Balance 01-04-2018 88,22,672.13

Add: Transfer during the year

(Last year bal trf) 25-03-2019 50,38,286.00
50,38,286.00

Add: Transfer during the year

(Current year bal trf) 28.03.2019 14,50,000.00

Savings Bank Interest

31-03-2019 4,44,413.00

69,32,699.00

1,57,55,371.13

Less: Expenditure incurred by Fund

(1,28,017.70)

1,56,27,353.43 (C)

A =	B	+	C
Rs	Rs		Rs
9,27,88,766.20	7,46,59,412.77		1,56,27,353.43

Difference to be transferred in
 current year

25,02,000.00



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 is taken as Pre-receipted subscription for the following year.
4. 20% of Life Membership subscription (net of expenses) is treated as net 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 Rs.50,000 instead of Rs.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. The funds are given under Plan and non plan bifurcation. Further Under Plan Expenditure and Non Plan Expenditure, the Expenses are allotted into Capital, General and Salary Expenditure.
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.
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.

Note - 18

Notes on Accounts:

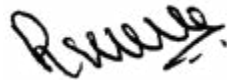
1. Gratuity Provision has not been made for the year 31.03.2019. Actuarial valuation is carried out to determine the liability on account of Gratuity as at 31.03.2019 and Liability as per valuation is Rs.88.87 lakhs. It is recommended that actuarial valuation is adopted.
2. Leave Encashment Provision has not been made for the year 31.03.2019 .Actuarial valuation is carried out to determine the liability on account of Leave Encashment as at 31.03.2019 and the liability as per valuation is Rs.66.61 lakhs. . It is recommended that actuarial valuation is adopted.
3. Pension Provision has not been made for the year ended 31.03.2019. Actuarial valuation is carried out to determine the liability on account of Pension as at 31.03.2019 and the Liability as per Valuation as at 31.03.2019 is Rs.481.20 lakhs. . It is recommended that actuarial valuation is adopted.
4. "Plan subscription of Journal" although capitalized in 2008-09, no depreciation has been charged till 31.03.2010. However, during the current year Rs. 335.19 Lakhs 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) ` Out of Rs.39,52,000/- being 80% of Life Membership subscription received during the current year Rs. 14,50,000.00 has to be transferred in Life Membership Subscription Fund and balance Rs. 25,02,000.00 is to be transferred in Life Membership Subscription Fund. A statement of Reconciliation of Life Membership Subscription Fund and Investment thereof till 31.03.2019 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. 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.
9. Contingent Liability for the Income Tax Demand of Rs. 32,40,302/- for Assessment Year 2012-2013 is under appeal. Further Liability (Demand) of Rs 19,450.00 in standing in traces (tds).
10. Membership Applications of Rs.19,67,350/- received during 2017-2018 were not found to be in order, letters have been given to the applicants to submit details of AADHAR No and bank details for refund.
11. 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.

12. Amount sent to various chapters during 2017-18 total Rs 83,37,607.00 for various purposes were charged off without any relation to the nature of expenses and the actual expenses incurred. Out of 26 chapters 9 chapters have not sent utilization certificates amounting to Rs. 41,15,000.00. Further Chapters have sent utilization certificate of Rs. 7,07,515.00 of earlier years. It is recommended that audited balance sheet, audited income and expense statement and audited receipt and payment account in standard format should be obtained from all chapter. Further those chapters who have not sent utilization certificate for earlier year the same is obtained from such year of non compliance.
13. Advances as on 31.03.2019 includes an advance of Rs. 11,05,315.00 given to M/s Nathco Infra Project Pvt ltd. The said amount is given to complete the work as per work order no 3206/52B/2017-18 dated 06.02.2018 subject to some additional modification as specified by authority from time to time. But the said receipt has stopped work after receiving the advance for which a notice is given to the advocate of the party.

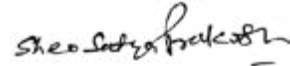
For AVSS & Associates.
Chartered
Accountants
FRN - 327456E



ACA. Avijit Singh
Partner
MNo. 306958



Dr. S. Ramakrishna
General Secretary
(Membership Affairs)



Dr. Sheo Satya Prakash
Treasurer

Place: Kolkata
Date: 31/07/2019

THE INDIAN SCIENCE CONGRESS ASSOCIATION

BALANCE SHEET OF ENDOWMENT FUNDS AS AT 31ST MARCH,2019

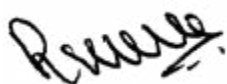
Particulars	Note	Current Year Rs	Previous Year Rs
LIABILITIES			
Endowment Fund Balance	19	2,99,96,931.54	2,90,05,948.29
Total:		2,99,96,931.54	2,90,05,948.29
PROPERTIES & ASSETS			
Endowment Investments	20	2,99,96,931.54	2,90,05,948.29
Total:		2,99,96,931.54	2,90,05,948.29

In terms of our report of even date annexed here to.

For A V S S & Associates
Chartered Accountants
FRN 327456E



ACA Avijit Singh
Partner
MNO:306958



Dr. S. Ramakrishna
General Secretary,
Membership Affairs



Dr. Sheo Satya Prakash
Treasurer

Place: Kolkata
Date:31/07/2019

THE INDIAN SCIENCE CONGRESS ASSOCIATION
INCOME & EXPENDITURE ACCOUNT OF ENDOWMENT FUND
FOR THE YEAR ENDED 31ST MARCH,2019

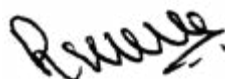
Particulars	Note	Current Year	Previous Year
		Rs	Rs
Income	21	15,80,737	16,75,678
		15,80,737	16,75,678
Expenditure	21	5,89,754	3,91,616
		5,89,754	3,91,616
Excess of Income Over Expenditure		9,90,983	12,84,062
Less: Transferred to Respective Fund		9,90,983	12,84,062
		-	-

In terms of our report of even date annexed here to.

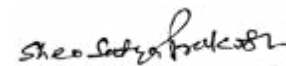
For A V S S & Associates
Chartered Accountants
FRN 327456E



ACA Avijit Singh
Partner
MNO:306958



Dr. S. Ramakrishna
General Secretary,
Membership Affairs



Dr. Sheo Satya Prakash
Treasurer

Place: Kolkata
Date:31/07/2019

Note 19

ENDOWMENT FUND BALANCES

Particulars	Balance as	Surplus(+)/	Donation	Balance as
	on 1-04-2018	Deficit(-) of Respective Fund	Received	on 31.03.2019
	Rs	Rs	Rs	Rs
1 B.C.Guha Memorial Fund	1,89,929.39	9,953.00	-	1,99,882.39
2 G.P.Chatterjee & Smt Suniti Chatterjee Fund	8,48,968.38	10,205.00	-	8,59,173.38
3 Prof Hiralal Chakraborty & Smt Toru Chakraborty	3,87,247.60	19,241.00	-	4,06,488.60
4 Prof K.P. Rode Memorial Lecture Fund	1,89,653.66	9,750.00	-	1,99,403.66
5 Pran Vohra Award Fund	7,26,738.13	24,493.00	-	7,51,231.13
6 Raj Kristo Dutta Memorial Award Fund	1,75,932.00	7,870.00	-	1,83,802.00
7 Prof Uma Kant Sinha Memorial Award Fund	3,69,336.81	10,287.00	-	3,79,623.81
8 Dr B.C.Deb Memorial Award Fund	6,84,932.39	24,983.00	-	7,09,915.39
9 Prof R.C. Saha Memorial Award Fund	1,67,159.55	(120.00)	-	1,67,039.55
10 Prof R.C. Mehrotra Commemoration Award Fund	3,36,870.74	7,769.00	-	3,44,639.74
11 Prof S.K.Mukherjee Commemoration Award Fund	3,07,380.45	10,976.00	-	3,18,356.45
12 Prof (Mrs) Anima Sen Memorial Award Fund	2,12,160.00	11,086.00	-	2,23,246.00
13 Dr (Mrs) Gouri Ganguly Award Fund	3,56,885.15	5,310.00	-	3,62,195.15
14 Prof S.S.Katiyar Commemoration Lecture Fund	7,60,015.00	18,200.00	-	7,78,215.00
15 ISCA Award Fund	98,35,453.66	4,83,239.00	-	1,03,18,692.66
16 ISCA Vikram Sarabhai Memorial Award Fund	15,12,011.29	69,236.00	-	15,81,247.29
17 ISCA Excellence in Science & Technology Award Fund	35,28,808.00	61,526.00	-	35,90,334.00
18 ISCA Royalty Fund	7,56,411.50	35,273.00	-	7,91,684.50
19 ISCA Infos Foundation Travel Award Fund	8,18,693.59	(45,959.75)	-	7,72,733.84
20 Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	28,42,605.00	1,04,982.00	-	29,47,587.00
21 Prof M.K.Singal Memorial Award Fund	13,12,773.00	76,104.00	-	13,88,877.00
22 Prof Archana Sharma Memorial Award Fund	6,54,564.00	15,089.00	-	6,69,653.00
23 Prof G.K.Manna Memorial Award Fund	7,57,224.00	22,352.00	-	7,79,576.00
24 Prof V.K.Puri Memorial Award Fund	7,33,230.00	(115.00)	-	7,33,115.00
25 Prof W.D. West Memorial Award	5,40,965.00	(746.00)	-	5,40,219.00
	2,90,05,948.29	9,90,983.25	-	2,99,96,931.54

Note 20

ENDOWMENT FUND INVESTMENTS

Particulars	2018-2019		2017-2018	
	In Term Deposit	In Bank	Total	
	Rs	Rs	Rs	Rs
1 B.C.Guha Memorial Fund	1,25,000.00	74,882.39	1,99,882.39	1,89,929.39
2 G.P.Chatterjee & Smt Sumiti Chatterjee Fund	4,20,000.00	4,39,173.38	8,59,173.38	8,48,968.38
3 Prof Hiralal Chakraborty & Smt Toru Chakraborty	2,25,000.00	1,81,488.60	4,06,488.60	3,87,247.60
4 Prof K.P. Rode Memorial Lecture Fund	95,000.00	1,04,403.66	1,99,403.66	1,89,653.66
5 Pran Vohra Award Fund	4,25,000.00	3,26,231.13	7,51,231.13	7,26,738.13
6 Raj Kristo Dutta Memorial Award Fund	1,00,000.00	83,802.00	1,83,802.00	1,75,932.00
7 Prof Uma Kant Sinha Memorial Award Fund	1,85,000.00	1,94,623.81	3,79,623.81	3,69,336.81
8 Dr B.C.Deb Memorial Award Fund	3,79,955.00	3,29,960.39	7,09,915.39	6,84,932.39
9 Prof R.C. Saha Memorial Award Fund	1,20,000.00	47,039.55	1,67,039.55	1,67,159.55
10 Prof R.C. Mehrotra Commemoration Award Fund	2,30,000.00	1,14,639.74	3,44,639.74	3,36,870.74
11 Prof S.K.Mukherjee Commemoration Award Fund	1,50,000.00	1,68,356.45	3,18,356.45	3,07,380.45
12 Prof (Mrs) Anima Sen Memorial Award Fund	1,00,000.00	1,23,246.00	2,23,246.00	2,12,160.00
13 Dr (Mrs) Gouri Ganguly Award Fund	2,00,000.00	1,62,195.15	3,62,195.15	3,56,885.15
14 Prof S.S.Katiyar Commemoration Lecture Fund	5,00,000.00	2,78,215.00	7,78,215.00	7,60,015.00
15 ISCA Award Fund	64,00,000.00	39,18,692.66	1,03,18,692.66	98,35,453.66
16 ISCA Vikram Sarabhai Memorial Award Fund	8,00,000.00	7,81,247.29	15,81,247.29	15,12,011.29
17 ISCA Excellence in Science & Technology Award Fund	20,00,000.00	15,90,334.00	35,90,334.00	35,28,808.00
18 ISCA Royalty Fund	3,00,000.00	4,91,684.50	7,91,684.50	7,56,411.50
19 ISCA Infosys Foundation Travel Award Fund	5,00,000.00	2,72,733.84	7,72,733.84	8,18,693.59
20 Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	15,00,000.00	14,47,587.00	29,47,587.00	28,42,605.00
21 Prof M.K.Singal Memorial Award Fund	10,00,000.00	3,88,877.00	13,88,877.00	13,12,773.00
22 Prof Archana Sharma Memorial Award Fund	5,00,000.00	1,69,653.00	6,69,653.00	6,54,564.00
23 Prof G.K.Manna Memorial Award Fund	5,00,000.00	2,79,576.00	7,79,576.00	7,57,224.00
24 Prof V.K.Puri Memorial Award Fund	5,00,000.00	2,33,115.00	7,33,115.00	7,33,230.00
25 Prof W.D. West Memorial Award	5,00,000.00	40,219.00	5,40,219.00	5,40,965.00
	1,77,54,955.00	1,22,41,976.54	2,99,96,931.54	2,90,05,948.29

Note 21

	2018-2019			2017-2018			
	Income	Expenditure	Surplus (+)/ Deficit(-) Respective Fund	Income	Expenditure	Surplus (+)/ Deficit(-) Respective Fund	
	Rs	Rs	Rs	Rs	Rs	Rs	
1	B.C.Guha Memorial Fund	9,953.00	-	9,953.00	10,944.00	-	10,944.00
2	G.P.Chatterjee & Smt Suniti Chatterjee Fund	40,104.00	29,899.00	10,205.00	39,475.00	-	39,475.00
3	Prof Hiralal Chakraborty & Smt Toru Chakraborty	23,241.00	4,000.00	19,241.00	19,007.00	4,000.00	15,007.00
4	Prof K.P. Rode Memorial Lecture Fund	9,750.00	-	9,750.00	10,069.00	-	10,069.00
5	Pran Vohra Award Fund	35,953.00	11,460.00	24,493.00	36,017.00	22,330.00	13,687.00
6	Raj Kristo Dutta Memorial Award Fund	9,930.00	2,060.00	7,870.00	10,137.00	23,065.00	(12,928.00)
7	Prof Uma Kant Sinha Memorial Award Fund	17,357.00	7,070.00	10,287.00	18,050.00	4,000.00	14,050.00
8	Dr B.C.deb Memorial Award Fund	34,103.00	9,120.00	24,983.00	43,125.00	28,886.00	14,239.00
9	Prof R.C. Saha Memorial Award Fund	9,000.00	9,120.00	(120.00)	9,732.00	28,080.00	(18,348.00)
10	Prof R.C. Mehrotra Commemoration Award Fund	17,769.00	10,000.00	7,769.00	20,494.00	-	20,494.00
11	Prof S.K.Mukherjee Commemoration Award Fund	15,976.00	5,000.00	10,976.00	14,583.00	19,038.00	(4,455.00)
12	Prof (Mrs) Anima Sen Memorial Award Fund	11,086.00	-	11,086.00	10,133.00	-	10,133.00
13	Dr (Mrs) Gouri Ganguly Award Fund	18,395.00	13,085.00	5,310.00	18,809.00	22,294.00	(3,485.00)
14	Prof S.S.Katiyar Commemoration Lecture Fund	67,594.00	49,394.00	18,200.00	1,19,781.00	33,971.00	85,810.00
15	ISCA Award Fund	5,55,996.00	72,757.00	4,83,239.00	5,26,173.00	40,000.00	4,86,173.00
16	ISCA Vikram Sarabhai Memorial Award Fund	69,236.00	-	69,236.00	87,457.00	-	87,457.00
17	ISCA Excellence in Science & Technology Award Fund	1,79,589.00	1,18,063.00	61,526.00	2,07,207.00	1,00,000.00	1,07,207.00
18	ISCA Royalty Fund	35,273.00	-	35,273.00	38,509.00	-	38,509.00
19	ISCA Infosis Foundation Travel Award Fund	37,737.00	83,696.75	(45,959.75)	50,852.00	20,135.80	30,716.20
20	Prof R.C.Mehrotra Memorial Life Time Achievement Award Fund	1,57,042.00	52,060.00	1,04,982.00	1,59,042.00	-	1,59,042.00
21	Prof M.K.Singal Memorial Award Fund	76,104.00	-	76,104.00	72,969.00	-	72,969.00
22	Prof Archana Sharma Memorial Award Fund	35,342.00	20,253.00	15,089.00	35,616.00	35,816.00	(200.00)
23	Prof G.K.Manna Memorial Award Fund	38,662.00	16,310.00	22,352.00	37,810.00	-	37,810.00
24	Prof V.K.Puri Memorial Award Fund	39,841.00	39,956.00	(115.00)	42,789.00	10,000.00	32,789.00
25	Prof W.D. West Memorial Award Fund	35,704.00	36,450.00	(746.00)	36,898.00	-	36,898.00
		15,80,737.00	5,89,753.75	9,90,983.25	16,75,678.00	3,91,615.80	12,84,062.20







THE INDIAN SCIENCE CONGRESS ASSOCIATION

(Professional Body under Department of Science & Technology
Ministry of Science & Technology, Government of India)

14, Dr. Biresh Guha Street, Kolkata - 700017, INDIA