

ANNUAL REPORT

2019-20



The Indian Science
Congress Association, Kolkata



University of Agricultural Sciences, Bangalore



107th INDIAN SCIENCE CONGRESS

Science & Technology: Rural Development

3-7 January, 2020



(LEFT TO RIGHT SIDE) FIRST ROW: DR. Y.G. SHADAKSHARI (LS), DR. A.K. JAIN (GS, SA), DR. M.K. CHAKRABARTI, DR. A.K. SAXENA, PROF. G. BALI, DR. S. RAJENDRA PRASAD (VC, GKVK), DR. HARSH VARDHAN (MINISTER FOR S&T), SHRI NARENDRA MODI (PRIME MINISTER), SHRI B.S. YEDIYURAPPA (CM), PROF. K.S. RANGAPPA (GP), PROF. HARSH GUPTA, PROF. R.C. SOBTI, DR. (MRS.) V.L. SAXENA (GP, ELECT), DR. S. RAMAKRISHNA (GS, MA), DR. K.C. NARAYANASWAMY (LS)

SECOND ROW: PROF. ASHUTOSH SHARMA (DST), DR. K.T. CHANDRASHEKAR, PROF. S.P. TRIVEDI, PROF. DHYANENDRA KUMAR, PROF. GANGADHAR, PROF. A. BANERJI, PROF. B.P. CHATTERJEE, PROF. K. BYRAPPA, PROF. M. B. NAIDU, PROF. S.V. K. RAJA, PROF. S. P. SINGH, DR. N. B. BASU, PROF. P. P. MATHUR, PROF. R. K. VERMA, PROF. ARUN KUMAR, DR. NIBEDITA CHAKRABARTI, DR. M.G. RAGHUNATHAN, PROF. C. MUTHAMIZHICHELVAN, PROF. (DR.) A.M. SAXENA, DR. SHEO SATYA PRAKASH (TREASURER)

THIRD ROW: DR. ARUN KUMAR PANDEY (AES), DR. U. BEHERA, PROF. P. C. JOSHI, PROF. (DR.) S. M. MAKVANA, PROF. D. S. RAWAT, PROF. R.B.SINGH, DR. A.K. DAS, DR. R. S. RAWAL, PROF. MD. N. HODA, DR. S. SRIKANTASWAMY, PROF. S.K. NIMBORKAR, DR. S.K. GHOSH, PROF. S. CHIDANGIL, PROF. (MS.) Y. VIMALA, DR. AMIT KRISHNA DE (ES)

ANNUAL REPORT

2019-2020



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

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PREFACE

The 107th Indian Science Congress was held at Bengaluru under the auspices of the University of Agricultural Sciences, Bangalore from January 3-7, 2020. Prof. K.S.Rangappa, General President of ISCA welcomed the members and delivered his address on the Focal Theme “*Science and Technology: Rural Development*”. Shri Narendra Modi, Hon’ble Prime Minister of India, inaugurated the Congress on 3rd January and delivered his address. Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Earth Sciences, also addressed the gathering in the presence of Shri B.S.Yediyurappa, Chief Minister of Karnataka, and Dr.S.Rajendra Prasad, Vice Chancellor, GKVK, University of Agricultural Sciences, Bangalore. Shri Narendra Modi, Hon’ble Prime Minister of India launched the I- STEM Portal by pressing a button from the dias. The inaugural function was attended by large number of invitees including research scholars and scientists from all over the country.

Two Nobel laureates, senior officials of the Union and State government and Scientists from the country and abroad also attended the Inaugural function. About 27 Plenary sessions were conducted, where in 94 Lead Speakers from all over the world delivered talk on innovative scientific areas and along with their research activities. 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. In these subjects about 32 key note lectures, 421 invited lectures and poster/ oral presentations were organized. During various deliberation many fruitful recommendations were emerged especially on overall upliftment of rural areas through contemporary science and technology.

Rashtriya Kishore Vaigyanik Sammelan (Children Science Congress) was held on January 4-6, 2020 with support from NCSTC, DST, New Delhi where projects nominated by Department of Science & Technology and National Council of Educational Research were displayed. Infosys ISCA Travel Awards were presented to the school children. A large number of students from the neighbourhood schools and colleges visited and participated in the Children Science Congress.

Apart from this, the 13th 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 9th Women Science Congress was organised on the theme “*Science and Technology: Rural Development*” with support from KIRAN, DST, New Delhi, where women scientists from all over the country participated.

During 107th Indian Science Congress Farmers Science Congress, VC’s meet, Yoga science meet and Pride of India Expo were also organised.

The Valedictory marking the end of the event of 107th Indian Science Congress was held on 7th January 2020. The dignitaries for the function were Shri M.Venkaiah Naidu, Hon’ble Vice President of India, Prof. K.S.Rangappa, General President ISCA, Dr.S.RajendraPrasad, Vice Chancellor, GKVK, University of Agricultural Sciences, Bangalore, Dr. (Mrs) V.L.Saxena ,General President (Elect) ISCA, On this occasion, Young Scientist Awards and Best Poster Awards were also presented. Dr.S.Ramakrishna, General Secretary (Membership Affairs), ISCA, and Dr.Anoop

Kumar Jain, General Secretary (Scientific Activities) and Dr Amit Krishna De, Executive Secretary, ISCA were also present. Prof. K.S. Rangappa, General President, ISCA delivered Presidential address. In the end, the Vigyan Jyot was ceremoniously handed over by Prof. K.S.Rangappa, General President ISCA to Dr. (Mrs) Vijay Laxmi Saxena, General President (Elect) ISCA with the message of further spreading the importance of science amongst the students and taking the VigyanJyot to the venue of 108th ISC.

Twenty Six ISCA Chapters continued their activities during the year under report by organising seminars on Focal Theme of 107th 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: 05-11-2020



(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 one thousand five hundred. After independence ISCA has been actively interacting with various foreign Scientific Academies/Associations, namely, British Association for the Advancement of Science, American Association for the Advancement of Science, French Academy of Sciences, Bangladesh Academy of Sciences, Sri Lanka Association for the Advancement of Science, Beijing Association for Science & Technology and others with a view to have a fruitful interactions on topics of mutual interest.

The year 1976 witnessed a significant departure in the trend of deliberations during the Congress. It was being felt for sometime that such a gathering of scientists, covering a wide spectrum and seized of national issues that have scientific and technological implications to adopt a cogent theme every year. In 1976, Dr. M.S.Swaminathan, the then General President of ISCA, introduced the



concept of Focal Theme of national relevance which is now discussed at an Annual Session of the Indian Science Congress. Further, several plenary sessions are organised around various facets of the Focal Theme in which scientists and technologists as well as policy makers and administrators interact with one another. ISCA has thus become an important platform where members from different disciplines and from different walks of life contribute to discussions on the Focal Theme.

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

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

A substantial number of the contributed papers, which are accepted on the basis of a careful screening to be done by the concerned Sectional Presidents with the help of some experts, are presented by way of posters. Further, to encourage scientists it was decided that at most two Prizes of ₹ 1000/- in cash along with a certificate be awarded to the Best Poster presentation in each section from 1999 Session. The value of these prizes were enhanced to ₹ 5,000/- from 2007. From its 101st Session in 2014 it has been converted to a separate programme. Oral presentations of selected contributed papers are also included in the programme of each section. The Indian Science Congress Association has instituted several Awards to honour and encourage scientists in India – mainly through special endowments received from individuals and groups and also from its own funds. The concept of instituting Awards started from 1965 onwards and presently there are about more than 40 Awards/Lectures that are given by ISCA. From 2013 Asutosh Mookerjee fellowship has been started for senior scientists. At present there are Ten regular fellows.



PROF. K. S. RANGAPPA
GENERAL PRESIDENT OF 107TH INDIAN SCIENCE
CONGRESS, BANGALORE

Prof. Rangappa has made novel and significant contributions to Chemical Biology-Drug discovery programme, Bio-organic and Medicinal Chemistry. His research is characterized by both novelty and innovation, and has led to a substantial body of published work which has received extensive citations, national and international recognition with several awards. His most important contributions have been towards the synthesis of new molecules for various therapeutic areas including antimicrobial, anti-inflammatory, anti-malarial, anticancer, antiangiogenic, antidiabetic, Alzheimer's, etc. He has also worked extensively on p300 HAT activators, acetylcholine inhibitors and M1 receptor agonists. Over 4000 new bioactive molecules have been synthesized from his laboratory which were tested for their Antimicrobial, Anti-inflammatory (PLA2 Inhibitors), Anti-Malarial, Anticancer (Cervical, Breast, Liver and Mouth Cancer), Alzheimer's disease and Diabetes.

Prof. Rangappa received his PhD from the University of Mysore (1982) and has worked as Post-doctoral / Research Associate / Visiting Professor at several Universities in Canada (1983 – 85), USA (1990 – 92), Germany (1995), Japan (1999 – 2000, May – July 2005), Korea (2002, 2014), Poland (April – May 2006), Russia (July 2013), Cambridge University, UK (Oct 2013) etc.

He has been awarded the D.Sc degree by the University of Mysore for his independent research contribution (1998). He is the Fellow of The Royal Society of Chemistry (FRSC, UK) and Fellow of National Academy of Sciences (FNASc) India. Apart from the research activities of his own group, Prof. Rangappa has developed several national and international (Indo – Japan, Indo – French, Indo – Germany, Indo-NUS, Indo-UK, Indo-US, Indo-Korea, Indo-South Africa, Indo-Russia etc.) collaborative research programmes with more than 300 scientists working across the globe. Prof. Rangappa has established a school of researchers, to undertake further studies. Prof. K. S. Rangappa has published more than 450 research papers in national and international peer reviewed journals and presented more than 150 research papers in national and international conferences. He has 10 patents in the area of medicinal chemistry. He has over 4975 scientific citations for his research contributions as of now with h-index 35. Prof. Rangappa has successfully guided 54 candidates for PhD degrees and presently 10 students are working for the doctoral research.

Prof. Rangappa is a recipient of several prestigious national and international awards including Prof. Y. T. Thathachari prestigious research award for Science (2007), Sir C. V. Raman Young Scientist Award (2006) from Karnataka State Council for Science and Technology, Chemical Research Society of India (CRSI) Bronze Medal (2006) in Chemical Sciences by Chemical Research Society of India, Prestigious Dr. Raja Ramanna Award from Karnataka State Council for Science and Technology (2011), Global e-learning award (2012) and Kempegowda International award (2017) for the outstanding contribution in the field of education. He served as a Vice-Chancellor, Karnataka State Open University from 2009 to 2013 and Vice Chancellor, University of Mysore, Mysore and brought the global recognition to both the universities.

Currently, Prof. Rangappa is a UGC-BSR Faculty Fellow; Distinguished Professor of the University of Mysore; Chief Scientific Adviser, Sinotar Pharmaceutical Co., Ltd.



Sri Narandhra Modi, Hon'ble Prime Minister of India and Dr. Harsh Vardhan, Union Minister of Science and Tecnology, Health and Family Welfare and Earth Science, along with other Dignitaries.

Inauguration of 107th ISC by Sri Narandhra Modi, Hon'ble Prime Minister of India



Inauguration of 107th ISC Children Science Congress by Nobel Laureate Prof. Ada Yonath and Dr. C.N.R. Rao with distinguished guests.

Dignitaries on the Dias during 107th ISC Children Science Congress



Dignitaries on the Dias during 107th ISC Women Science Congress

Dignitaries on the Dias during 107th ISC Science Communicators Meet.





Dr. Harsh Vardhan, Union Minister of Science and Technology, Health and Family Welfare and Earth Science inaugurating Exhibition.

Hon'ble Vice President of India Sri Venkaiah Naidu presenting ISCA awards during Valedictory session of 107th ISC with Dignitaries.



Handing over of Vigyan Jyot to Dr. Vijay Laxmi Saxena, General President (Elect), ISCA

THE HUNDREDTH SEVENTH SESSION OF INDIAN SCIENCE CONGRESS, UNIVERSITY OF AGRICULTURAL SCIENCES, BANGALORE : A BRIEF REPORT

INAUGURAL SESSION

The 107th Indian Science Congress was held at Bengaluru under the auspices of the University of Agricultural Sciences, Bangalore from January 3-7, 2020. Prof. K.S.Rangappa, General President of ISCA welcomed the members and delivered his address on the Focal Theme “*Science and Technology: Rural Development*”. Shri Narendra Modi, Hon’ble Prime Minister of India, inaugurated the Congress on 3rd January and delivered his address. Dr. Harsh Vardhan, Union Minister of Science and Technology, Ministry of Earth Sciences, also addressed the gathering in the presence of Shri B.S.Yediyurappa, Chief Minister of Karnataka, and Dr.S.Rajendra Prasad, Vice Chancellor, GKVK, University of Agricultural Sciences, Bangalore. Shri Narendra Modi, Hon’ble Prime Minister of India launched the I- STEM Portal by pressing a button from the dias.

The inaugural function was attended by large number of invitees including research scholars and scientists from all over the country. Two Nobel laureates, senior officials of the Union and State government and Scientists from the country and abroad also attended the Inaugural function. About 27 Plenary sessions were conducted, where in 94 Lead Speakers from all over the world delivered talk on innovative scientific areas and along with their research activities. 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. In these subjects about 32 key note lectures, 421 invited lectures and poster/ oral presentations were organized. During various deliberation many fruitful recommendations were emerged especially on overall upliftment of rural areas through contemporary science and technology.

RASHTRIYA KISHORE VAIGYANIK SAMMELAN (CHILDREN SCIENCE CONGRESS)

The Indian Science Congress Association Kolkata, University of Agricultural Sciences, Bangalore and NCSTC, Delhi jointly organized the Rashtriya Kishore Vaigyanik Sammelan (Children Science Congress) on 4th January 2020. Dr.Anoop Kumar Jain, General Secretary (Scientific activities), ISCA welcomed the dignitaries. Dr. S. Rajendra Prasad, Vice - Chancellor and Chairman, 107th Indian Science Congress briefed about the Rashtriya Kishore Vaigyanik Sammelan. Prof. Ada Yonath, Nobel Laureate participated as Chief Guest and advised the children to build curiosity at the younger age and encouraged the students to understand the things if it is less important Prof. C.N.R. Rao, National Research Professor and Honorary President Jawaharlal Nehru Center for Advance Science Research, Bengaluru participated as Chief Guest and released abstracts book of Rashtriya Kishore Vaigyanik Sammelan 2020. He draw the attention of the students by saying the words “ I Love Science, I enjoy Science and Science is life’s Occupation — You must love science”. Dr. Ashutosh Sharma, Secretary, Department of Science and Technology, Gol, New Delhi Dr. Akhilesh Gupta, Head, NCSTC, Department of Science and Technology, Gol, New Delhi and Shri. V Subramani, Hon’ble Member, BoM, UASB were the guests of honour. Dr. Amit Krishna De, Executive Secretary, ISCA Kolkata announced the names of ISCA Infosys Awardees to 10 Children of different states of the country. Prof. K. S. Rangappa, General President ISCA Kolkata presided over the programme. Prof. Shivanna, Former Vice-chancellor, UASB and Prof. S. Ramakrishna

General secretary (Membership affairs), ISCA, were present on the occasion. An exhibition was also arranged with 22 models developed by 117 students.

The Valedictory programme of Rashtriya Kishore Vaigyanik Sammelan was held on 7th January 2020. Dr. Anoop Kumar Jain, General Secretary (Scientific activities), ISCA welcomed the dignitaries. Dr. YG Shadakshari, Local secretary ISC-2020 and Director of Research University of Agricultural Sciences Bangalore, made the introductory remarks. Dr. S. Rajendra Prasad, Vice - Chancellor addressed the gathering. Dr. Neena Joshi, Convener summarized the programme. Dr. Manoj Kumar Patariya, Former Director, CSIR- NISCAIR, New Delhi and Joint Head, NCSTC, Smt. Anju Bhalla, Joint Secretary, DST, GOI, graced the occasion, as Guests of honour. Dr. Arun K Pandey, Assistant Executive Secretary, ISCA delivered Vote of Thanks.

WOMEN'S SCIENCE CONGRESS

The 9th Women Science Congress (WSC) 2020 with the theme “Women in Science and Technology for Sustainable Development” was organized during 5th and 6th January, 2020 by The university of Agricultural Sciences, Bangalore and Indian Science Congress Association, Kolkata jointly. Dr. Anoop Kumar Jain, General secretary (Scientific Activities), ISCA welcomed the dignitaries, Dr. S. Rajendra Prasad Vice –chancellor and Chairman, 107th Indian Science Congress narrated the significant contribution of women in the field of Science and Technology. Dr. Trilochan Mohapatra, Secretary (DARE) and Director General (ICAR), New Delhi inaugurated the programme. Dr. Tessy Thomas, Director General Aeronautical Systems, DRDO, Bengaluru was the Chief Guest and released the Abstract Book. Prof. Vijay Laxmi Saxena, General President Elect, ISCA, Dr. Namitha Gupta, Adviser and scientist ‘G’ DST New Delhi and Prof. Shakunthala Shridharan, Hon’ble Member, Board of Management, UASB were present as Guests of honour. Prof. K.S. Rangappa, General President, ISCA presided over the programme. Prof. S. Ramakrishna, General Secretary (Membership Affairs), ISCA, Kolkata proposed Vote of Thanks.

In total, 16 women achievers in different fields of Science and Technology viz., Information Technology, Defence, Biotechnology, Agriculture and allied fields, Medicine, Nutrition, Space, Sports, etc shared their experiences as women in their fields. Each session had a chairperson and two rapporteurs and three panelists for panel discussion on the deliberations of the sessions. Nearly 2000 women participated in WSC-2020 though totally 200 abstracts from nine different fields of science were received out of which 166 research abstracts were accepted and selected for poster presentation.

The Valedictory function was held on 6th Jan 2020 where Dr. Anoop Kumar Jain, General Secretary (Scientific Activities), ISCA welcomed the dignitaries. The Chief Guest was Smt. Vandita Sharma IAS, Additional Chief Secretary and Development Commissioner, GoK, Bengaluru, and Guest of Honors were Dr. Namitha Gupta, Adviser & Scientist ‘G’ DST, New Delhi, Dr. S. C. Ashwathnarayana, Hon’ble Member, Board of Management, UAS, Bangalore and Dr. Mahabaleshwara Hegde, Registrar, UAS, Bangalore. Dr. D.L. Savithamma, Dean (Agri.), Chairperson & Convener of WSC-2020 of the host institution, UASB summarized the events of the Women Science Congress. Prof. K.S. Rangappa, General President, ISCA presided over the function. The program ended with Vote of Thanks proposed by Prof. S. Ramakrishna, General Secretary (Membership Affairs), ISCA, Kolkata.

VIGYAN SANCHARAK SAMMELAN (SCIENCE COMMUNICATORS' MEET)

13th Vigyan Sancharak Sammelan (Science Communicators' Meet) , jointly hosted by Indian Science Congress Association and University of Agricultural Sciences, Bangalore was held on January 5-6, 2020. The event was supported by NCSTC, Department of Science & Technology, Government of India . Dr. Anoop Kumar Jain, General Secretary (Scientific activities), ISCA welcomed the dignitaries. Dr. Akhilesh Gupta, Head & Advisor, NCSTC, Department of Science & Technology, Dr R K Joshi, Scientist E, DST and Dr. S. Rajendra Prasad, Vice-Chancellor, University of Agricultural Sciences, GKVK, Bengaluru addressed the gathering. Prof. K. S. Rangappa, General President ISCA Kolkata presided over the programme. Prof. S. Ramakrishna General secretary (Membership affairs), ISCA delivered Vote of Thanks.

Invited Lectures were given by Dr. Manoj Kumar Patariya, Former Director, CSIR- NISCAIR, New Delhi, Prof. Nagesh Hegde, Professor, Indian Institute of Journalism & Science Correspondent, Deccan Herald, Prajavani, Bengaluru, Prof. K. N. Ganeshiah, Coordinator, DBT-IBIN Programme, University of Agricultural Sciences, GKVK, Bengaluru and Dr T. V. Venketawaran, Scientist-F, VigyanPrasar, New Delhi. 41 Science Communicators selected from different chapters of ISCA from all over India made presentations in four Technical Sessions spread over two days. In addition to, 20 oral presentations, 21 poster presentations were held on contemporary issues in Science & Technology communication. Also on this occasion Dr. B. C. Deb Memorial Award for Popularisation of Science 2019 – 2020 was delivered by Dr. Sachin Kumar Singh, Lovely Professional University, Phagwara.

The Valedictory Session was held on January 06, 2020 in presence of Dr S M Shivaprasad, Director Karnataka State Higher Education Academy, Dharwad and Professor, JNCASR , Bengaluru as Chief Guest. Dr. Anoop Kumar Jain, General Secretary (Scientific activities), ISCA welcomed the dignitaries. Dr. S. Rajendra Prasad, Vice-Chancellor, University of Agricultural Sciences, GKVK, Bengaluru gave introductory remarks. Shri. Rajinder Singh, Scientist D, NCSTC Division, Department of Science and Technology, Prof R Uma Shaanker, Convener, SCM summarized the whole programme. Prof. K. S. Rangappa, General President ISCA Kolkata presided over the programme. The Meet concluded with Vote of Thanks by Dr. Amit Krishna De, Executive Secretary, ISCA.

SCIENCE EXHIBITION: PRIDE OF INDIA EXPO

The Pride of India (PoI) Expo, one of the major attractions of the ISC was inaugurated at the hands of Hon'ble Union Minister of S&T, Dr. Harsh Vardhan, on 3rd January 2020 at University of Agricultural Sciences (UAS), Bangalore concurrent to the 107th ISC.

The pavilions put up by CSIR, DRDO, ICMR, DST, GSI, Income Tax, MoES, FSSAI, NHAI, NMDC, Host State etc were highly appreciated by all the dignitaries and visitors. The Host State Pavilion by Karnataka State brought about the initiatives of various departments of the state. The PoI Expo was spread over an area of approx. 20,000 sq. meter with the participation of over 200 organizations. The well-lit and ventilated pavilions with best infrastructure were the others highlights of the Expo.

FARMERS SCIENCE CONGRESS

The programme started with the invocation, followed by welcome speech by Dr.M.J. Chandre Gowda, Director, ICAR-ATARI, Bengaluru and Chairman, FSC, ISC-2020. Dr.Trilochan Mohapatra, Secretary (DARE) and Director General ICAR, New Delhi, Dr.S. Rajendra Prasad, Vice-Chancellor, UAS, Bangalore and Chairman organizing committee ISC 2020, Dr. A. K. Singh, Deputy Director General (Agril. Extn.) ICAR, New Delhi, Dr.R.C.Agarwal, Deputy Director General (Agril. Education), ICAR- New Delhi, Dr.U.K.Behera, Dean, Central Agricultural University, Imphal, Sri. Hanumanagouda Belagurki, Chairman, Karnataka Agricultural Price Commission, Dr.N. S.Shivalinge Gowda, Director of Extension, UAS, Bangalore and member convener FSC, ISC-2020 and Professor K.S. Rangappa, General president, ISCA, Kolkata were graced the programme.

Following Technical Sessions were organized :Session-I: Theme: Farmers innovation on integrated agriculture and entrepreneurship for doubling farmers income. Session II: Theme: Climate change, bio-diversity, conservation, ecosystem services & farmers empowerment : Session III: Panel Discussion on Policy Issues and Problems faced by the farmers

The farmers were selected in joint collaboration with UAS, Bangalore and ICAR, New Delhi. For the administrative purpose the ICAR has divided the country into 11 zones. From 10 zones, 10 innovative farmers from each zone were selected and from zone-8 (South zone), twenty farmers were selected for the congress. From each zone along with farmers a representative of KVK was accompanied. The ICAR, New Delhi, met out the travel and registration expenditure from the respective KVK / Zonal Office. The UAS, Bangalore extended hospitality of food, local transportation and accommodation facilities. Besides these representative farmers from all over the country the interested progressive farmers, extension workers and other participants from Karnataka state also participated in this event. Totally 414 farmers (Male – 366 & Female – 48) from 24 States participated in the Farmers Science Congress.

VICE-CHANCELLORS CONCLAVE

Vice-Chancellors Conclave on “Sustenance of Quality in Higher Education Institutions- Future Directions” was organized by the FVCK and held on 04th Jan 2020 as part of the 107th session of ISC held at University of Agricultural Sciences, GKVK campus from 03rd to 07thJan 2020.

Prof. S. P. Thyagarajan, former Vice-Chancellor of Madras University spoke on “Quality Internationalization Pathways in Indian Higher Education” . Dr. Thyagarajan extensively quoted the recommendations of Kothari Commission report and also the data drawn from the AISHE (All India Survey on Higher Education (published by UGC to highlight the measures needed to enhance the quality in Higher Education. Dr. Prabhudev, former Vice-Chancellor of Bangalore University spoke on “Introduction to Concepts of Excellence in Higher Education”. Dr. K. Narayana Gowda, former Vice-Chancellor of University Agricultural Sciences Bangalore delivered a talk on the “Role of Universities in all-round development of villages”. Prof P Venkataramaiah, former Vice-Chancellor of Kuvempu University made a presentation on “Science Education – Rural Outreach”.

The above presentations were followed by discussion by the participants.

YOGA SCIENCE MEET

Yoga is a spiritual science discipline dating back to some 5000 years in the history of Indian philosophy; its purpose, mainly to unleash spiritual and mental powers of an individual. However, in recent times yoga has been extremely popular in the context of fighting stress, anxiety and depression in these times of urbanization and our super-fast lifestyles. The science of yoga is having tremendous scientific basis in human sciences such as anatomy, physiology, and psychology. Yoga is here treated separately from physical exercise and meditation, which has effects of its own. As a part of 107th Indian Science Congress – 2020, the yoga science meet was organized on 05th January 2020. Dr. B R Ramakrishna, Vice Chancellor, S-VYASA University; Bangalore delivered elaborate talk on scientific perspective of yoga among scientific fraternity for mental and physical wellness.

VALEDICTORY SESSION

The Valedictory marking the end of the event of 107th Indian Science Congress was held on 7th January 2020. Participating as Chief Guest, Shri B.S. Yediyurappa, Hon'ble Chief Minister of Karnataka appealed the scientists to find solutions to the burning problems through science and technology. Shri. M. Venkaiah Naidu, Hon'ble Vice-President of India delivered the Valedictory Address. Dr. (Mrs) V.L.Saxena ,General President (Elect) ISCA, Dr.S.Ramakrishna, General Secretary (Membership Affairs), ISCA, Dr.Anoop Kumar Jain, General Secretary (Scientific Activities) Dr. Y.G. Shadakshari, Director of Research, UAS-B & Local Secretary, ISC-2020 and Dr. K.C. Narayanaswamy, Controller of Examinations, UAS-B & Local Secretary, ISC-2020 were also present. Prof. K.S. Rangappa , General President, ISCA delivered Presidential address. On this occasion, ISCA Awards, Young Scientist Awards and Best Poster Awards were also presented. Dr. S. Rajendra Prasad, Vice-Chancellor of UAS-B and Chairman, Organising Committee, ISC-2020 presented the vote of thanks

In the end, the Vigyan Jyot was ceremoniously handed over by Prof. K.S.Rangappa, General President ISCA to Dr. (Mrs) Vijay Laxmi Saxena, General President (Elect) ISCA with the message of further spreading the importance of science amongst the students and taking the Vigyan Jyot to the venue of 108th ISC.

TECHNICAL PROGRAMME OF 107TH ISC

LECTURE OF NOBEL LAUREATES

Prof. Stefan Hell	Ultrasharp Fluorescence Microscopy
Prof. Ada E Yonath	From Basic Science to an Acute Problem of Modern Medicine

PUBLIC LECTURES

Prof. Subra Suresh	Science Across Disciplines and some Consequence for Industry
Dr.C. N. Manjunath	Life Style Diseases and Recent Advances in Cardiac Sciences

PLENARY SESSIONS

CHALLENGES AND OPPORTUNITIES IN CANCER DRUG DISCOVERY

Professor Anna-Kathrin USA	Hell Growth-friendly implants in the treatment of Early Onset Scoliosis – new trends and developments
Professor Peter J Houghton USA	Challenges and Opportunities for Childhood Cancer Preclinical Drug Development
Professor Mary-Ann Bjornsti USA	DNA topoisomerase I: opportunities for drug development
Professor Eileen White USA	Control of Cancer Metabolism and the Anti-cancer Immune Response by Autophagy

ARTIFICIAL INTELLIGENCE AND MEDICAL TECHNOLOGY

Professor Susan L. Mooberry USA	Discovery of New Leads for Triple-Negative Breast Cancer from Nature
Professor Heggere Ranganath USA	Artificial Intelligence and Data Driven Planned Agriculture – A must, not an option for India
Professor Sajjan G Shiva USA	Building Intelligent Systems and Machines: Opportunities and Challenges
Professor James David Winkler USA	Tackling the Next Wave - Using New Technology to Go After 'Undruggable' Targets
Dr. Ajit Sapre Mumbai	Empowering rural India: One perspective

ADVANCES IN BASIC MEDICAL AND CLINICAL INTERACTIONS TECHNOLOGY

Dr. Daniel R Wilson USA	Interprofessional Clinical and Translational Research: Opportunities and Challenges
Dr. Michal J Toborek USA	Targeting the HIV-infected brain to improve ischemic stroke outcome
Dr. Andrew J Greenshaw USA	The coming impact for India of artificial intelligence and machine learning in human health systems.

ADVANCES IN BASIC MEDICAL AND CLINICAL INTERACTIONS

Dr. Surendra Varma USA	Global Perspective of Newborn Hypothyroid Screening
Dr. Shilpa Buch USA	HIV and opiates: Blaming the messengers
Dr. Devendra K Agrawal USA	Novel approach to prevent vein graft failure following coronary artery bypass graft

NON –COMMUNICABLE DISEASES IN RURAL POPULATION

Dr. Shekar M. A Mysuru	Current status and perceived risk factors of NCDs in rural. population
Dr. Aravind S R Bangalore	Therapeutic approach for better care of Diabetes in Rural population
Dr. Balasubramanyam R Mysuru	NCDs in Rural populations- Framing a pragmatic policy prescription
Dr. Prashanth Mathur Bangalore	Health systems challenges and opportunities in tackling NCDs in rural areas

NON – HUMAN MICROBIOTA – IS IT A PROTENTIAL CONTROLLER OF HEALTH AND DISEASE

Prof. Surinder Rana Chandigarh	Gut Microbiome in Pancreatic Diseases: Hype or Hope!
Prof. Asim K Duttaroy Norway	Preventing heart Disease in rural population: Nutrition for gut microbiome
Dr . Pallab Ray Chandigarh	The human microbiome in health and disease
Dr.Trilochan Mohapatra New Delhi	Agricultural Innovation Pathway for Rural Transformation

Dr. Ramesh Kaliaperumal
Hyderabad

Reklemel™ active: a new molecule for the control of
plant -parasitic nermatodes

CANCER RESEARCH –THERAPEUTIC APPLICATIONS

Professor Israel Vlodavsky
Israel

Cancer and Vascular Biology Research Center

Dr. Nagaraj Nagathihalli
USA

Molecular aspects of tobacco smoking, alcohol use
and risk of pancreatic cancer

Prof. Sathees Raghavan
Bangalore

The two faces of G-quadruplex DNA: Role in
chromosomal fragility and radioprotection

NANO MATERIALS FOR ENERGY, ENVIRONMENT AND HEALTH CARE

Professor Ajayan Vinu
Australia

Functionalized Nanoporous Carbon Based Materials for
Energy and Environmental Applications

Dr. Zhubing He
China

Interface Engineering for NiO based Inverted Planar Perovskite
Solar Cells

Dr. B. N. Chandrashekar
China

Green Transfer Method of CVD grown Graphene for
Transparent and Flexible Electrodes

Prof. Dinesh Rangappa
Chikkaballapur

“Recent Progress in Nanostructure Electrode Materials for
Energy Generation and Storage Applications”.

ON INFERTILITY IN RURAL WOMEN OF INDIA CAUSES PREVENTION AND TREATMENT

Dr.Suresh Kattera
Singapore

Low cost IUI for infertile women in rural India

Dr. Hrishikesh
Bangalore

Infertility and Education for Rural India

Dr. Kamini Rao
Bangalore

Overcoming gender biases I n rural India

Dr. Prashant Nadkarni
Malaysia

Infertility in Asia- Failing the masses.

MATERIALS SCIENCE AND TECHNOLOGY FOR RURAL DEVELOPMENT

Dr. Punickel Ajayan
USA

Nano Engineered Materials

Prof. Byrappa
Mysuru

Molecular Engineering of Direct Z-Scheme Multi-
Functional Metal Oxides Heterostructures

Professor Chowdari
Singapore

Advanced Materials for Sustainable Development

MATERIALS SCIENCE AND TECHNOLOGY FOR RURAL DEVELOPMENT

Prof. Martin Hartmann
Germany

Tailored Design of Nanoporous Functional Materials

Prof.Kesturu S Girish
Tumkur, Karnataka

Hemin-Induced Ferroptosis Mediates Platelet
Activation and Formation of Neutrophil Extracellular
Traps

Prof, Ravindra Pandey
USA

Photo-and Ultrasound Triggered Multifunctional
Nano particles for the Treatment of Glioblastoma

EMERGING DRUG DEVELOPMENT AND APPROACH TO NOVEL THERAPEUTICS

Prof .Peter Lobbie
China

Novel Therapeutics in Oncology

Prof. Larry S. Sherman
USA

Novel flavonoids for the treatment of neurodegenerative
disease

Prof.Govindaraju
Bangalore

Diagnostic and Therapeutic Strategies for Multifactorial
Alzheimer's Disease

MEDICINAL CHEMISTRY-DRUG DISCOVERY & DRUG DELIVERY

Dr.Alexey Yu Sukhorukov
Russia

Strategic applications of nitro compounds in organic
synthesis: recent progress

Prof.Hiroshi Kitagawa
Japan

Deciphering roles of chondroitin sulfate by sugar-
remodeling

Prof.Mugesh G
Bangalore

Halogen Bonding in Thyroid Hormone Action and
Membrane Transport

Dr.Yulia Volkova
Russia

Development of Novel Positive Allosteric Modulators of
GABAA Receptors

HEMOSTASIS AND THROMBOSIS-BIO CHEMISTRY AND PHYSIOLOGY

Prof. Satya P Kunapuli
Philadelphia

Novel Concepts in ITAM signaling in platelets

Dr. Sidney Whiteheart
USA

The Ins and Outs of Platelet "Cell" Biology in Hemostasis
and Beyond

Dr. Mortimer Poncz
USA

Curing sepsis using a pathogenic HIT antibody

Prof. Pudur Jagadeeswaran
USA

Knockout of von Willebrand Factor in Zebrafish by CRISPR/Cas9 Mutagenesis: A beginning of a novel screen to identify modifier genes.

NOVEL SOLUTIONS FOR OIL AND GAS INDUSTRY PROBLEMS

Dr. Dhulipala Prasad
USA

Biological solutions for Oil and Gas industry problems

Dr. Raghu Chunduru
USA

Pore Pressure Prediction for Drilling High Pressure and High Temperature Wells - Implications on Health, Safety, Security and Environment

Dr. Akhil Agrawal
Ajmer

Challenges and Prospects of Microbiology in Oil and Gas Industry

NOVEL SOLUTIONS FOR OIL AND GAS INDUSTRY PROBLEMS

Dr. Sunder Ramachandran
USA

Mitigation of Corrosion of Mild Steel by Acid Gases in the Oil and Gas Industry in Challenging Environments using Production Chemicals

Dr. D.V. Satya Gupta
USA

Exploiting Nano and Biomimetic technologies for Efficient Oil and Gas Exploration and Recovery

Prof. K.N. Thimmaiah
USA

Targeting of PI3-kinase/AKT/mTOR Signaling in Cancer by Lipophilic Phenoxazines

NEW DEVELOPMENTS IN THE FIELD OF NEUROSCIENCE

Dr. N.K. Venkataramana
Bangalore

Pathophysiological basis of management of Parkinson's Disease

Dr. E.V. Joshi
Bangalore

Evolving concepts of Autoimmunity in Parkinson's Disease

Dr. Sudheendra Rao N.R.
Bangalore

Advanced Therapy Strategies for Parkinson's Disease in Clinical Setting

Dr. Kavina Ganapathy
Bangalore

Regenerative strategies for Parkinson's disease: challenges and promises

NOVEL HETEROCYCLES AND THEIR BIOLOGICAL APPLICATION

Professor Hiroshi Hinou
Japan

Chemical Glycobiology (Starting from Glycoconjugate Syntheses).

Prof. Ila Bangalore	Design and Development of New Efficient and Greener Strategies for the Synthesis of Biologically Important Heterocycles
Prof. B. S. Vishwanath Mysuru	Neutralization of 'Big Four' Indian snake venom-induced systemic and local toxicities

BIOLOGICAL STUDY ON ANIMAL DISORDERS AND MEDICINAL DEVELOPMENT

Dr. Gurushankara H.P. Kasaragodu	Malathion Induced Leukemia: Molecular Mechanisms
Prof. Vellayan Subramanian Malaysia	The Current Status of Zoo Medicine in Malaysia: A 57 years History
Dr. Shilpa Bangalore	An overview on various approaches employed in understanding and treating chronic stress-induced depression in animal models

INSIGHT IN TO THE STRUCTURE AND FUNCTIONAL STUDIES OF PATHOLOGENIC PHYSIOLOGICAL DISEASES

Prof. T.P. Singh New Delhi	Introduction of innate immunity proteins as resistance-free antibiotics
Prof. Tapas Kundu Lucknow	Epigenetics , life beyond gene sequence: Implications in health and disease
Prof. Ganesh Nagaraju Bangalore	RAD51 paralogs : unraveling the new roles in genome stability and tumor suppression

CLIMATE SMART AGRICULTURE FOR FOOD SECURITY

Dr. C. Tara Satyavathi Jodhpur	Pearl millet for Nutritional Security and Rural Development
Dr. Ch. Shrinivas Rao Hyderabad	Building Climate Change Preparedness for Sustainable Agriculture in India
Prof. A. Arunachalam New Delhi	Agriculture and food policies in India
Prof. Chandra Nayak Mysuru	Current Status of Pearl Millet Diseases and its Management Approaches

USE OF INDIAN MEDICINAL PLANT BASED DRUGS IN CONTEXT OF RURAL HEALTHCARE

Prof. Avijith Banerjee Kolkata	Investigations of Indian Medicinal Plants
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Prof. Chandra Shekhar
Mathela
Nainital

Himalayan *Valerian*: Exploiting chemical diversity as a potential contributor in rural healthcare and improving economy of hill region”

Dr. Jayram Hazra
Kolkata

Drugs from Indian Medicinal Plants: Traditional Approach to Modern Usage; Relevance to Rural Healthcare

TECHNOLOGY IN SERICULTURE AND CLIMATE CHANGE FOR RURAL DEVELOPMENT

Dr. P. J. Raju
Andhra Pradesh

BmNPV Resistant Transgenic Silkworm – An Epoch making technology

Dr. Gautham Goswami
New Delhi

Technology vision 2035: A Technology Perspective for India’s Development

Smt Mugda Sinha
Rajasthan

Putting science in service of society through policy design

Prof.N.B.Ramachandra
Mysuru

Genomic variations and Human Health

NEW PARADIGM IN HEALTH CARE SYSTEM OF INDIA UNDER AYUSHMAN BHARAT YOJANA

Dr.Sathyamurthy
Bangalore

Ayushman Bharat & Medical Education by Using Recent Technology

Dr.B.S.Ratta
Bangalore

Ayushman Bharat. An Opportunity or a Challenge to Transform India

Prof. K. Selvakumar
Chennai

Ayushman Bharat & Medical Education by Using Recent Technology

WELLNESS FOR RURAL PEOPLE –THE SCIENTIFIC HEALTH CARE FOR MODERN WORLD

Dr. A. Sreekumar
Kochi

Wellness of the people by the people for the people

Prof. Ushy Mohandas
Bangalore

Challenges that affect and the provision of mental health in rural areas

Prof.P.K. Sasidharan
Kozhikode

Uplifting community health through natural and economical means in scientific way

PLENARY ON CROP IMPROVEMENT TOWARDS FOOD & NUTRITION SECURITY

Dr.S.B.Dandin
Bangalore

Agro bioersivity for Food and Health Security: A concept

Prof. D.Raj Gopal
Bangalore

Soil Biodiversity of Western Ghats

Dr.Uma Shanker
Bangalore

Endophytes: Exciting approach towards crop improvement

Dr. T.R.Sharma
Mohali

Molecular dissection of simple and complex traits and traits and their utilization in rice improvement

Dr.Utpal Nath
Bangalore

Integration of developmental and environmental signals in plant growth plasticity

Dr. Kiran
Mysore

A Functional Genomics Approach Identifies Novel Genes Involved in Plant Innate Immunity and Abiotic Stress.

PLENARY ON CROP IMPROVEMENT TOWARDS FOOD & NUTRITION SECURITY

Dr. Manish Saxena
Bangalore

Earth Observation for Societal Development

Shri John Mathew
Bangalore

Satellite Communication for Societal Development

Shri Hanumantharayappa
Bangalore

NaviC for Societal Development

PLENARY ON ROLE OF INDUSTRIES IN RURAL DEVELOPMENT

Prof. K. Narayana
Bangalore

Dr.S.Chandrashekar
Bangalore

Dr.K.Manjunath
Bangalore

Dr.Shrikumar Suryanarayanan
Bangalore

Dr. Nirmal K Bhardwaj
Bangalore

Mr.Vageesh Patil
Bangalore

Dr. K.K.Natayanan
Bangalore

Prof. C Naganna
Mysuru

Dr. Jagadish Mittur
Bangalore

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 (Annexure III) and a large number of Invited/Special Lectures were organised by Sectional Presidents which formed an integral part of the technical programme of the 107th Science Congress.

ISCA Young Scientist' Programme

Presentation of papers under ISCA Young Scientist' Programme in the sections were arranged on 4th January, 2020. This year seven 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 2020 during valedictory programme of 107th Science Congress. Names of those young scientists and titles of their papers are given in Annexure-IV.

ISCA Best Poster Award Programme

To encourage Scientists, the ISCA has instituted Best poster Awards in each Sections. These Awards carry a sum of ₹ 5,000/- besides a Certificate of Merit. This year 16 numbers of Best poster Awards were presented on 7th January, 2020 during the valedictory function of 107th Science Congress. Names of those Awardees and titles of their papers are given in Annexure-V.

ISCA ENDOWMENT AWARDS/LECTURES FOR 2019-2020

Asutosh Mookerjee Memorial Award

Prof. K.J. Rao,
Emeritus Professor, Solid State and
Structural Chemistry Unit,
Indian Institute of Science, Bangalore-560
012.

C. V. Raman Birth Centenary Award

Dr. Asish Kumar Mukhopadhyay,
Scientist F (Senior Deputy Director),
Division of Bacteriology,
National Institute of Cholera and Enteric
Diseases (ICMR),
Department of Health Research, Govt. of
India,
P-33, C.I.T. Road, Scheme XM, Beliaghata,
Kolkata - 700 010.

Dr. V. Puri Memorial Award - Plant Sciences

Dr. Daizy R. Batish,
Professor and Chairperson, Department of
Botany,
Panjab University, Chandigarh-160 014.

Pran Vohra Award - Agriculture and Forestry Sciences

Dr. Vignesh Muthusamy,
Scientist (Senior Scale), Lab. No.102, Maize
Genetics Unit, Division of Genetics,
ICAR-Indian Agricultural Research Institute
(IARI),
Pusa Campus, New Delhi-110 012.

P. C. Ray Memorial Award

Dr. A.K.Tyagi,

Outstanding Scientist (OS),
Head, Nuclear & Energy Materials Section,
Chemistry Division,
Bhabha Atomic Research Center (BARC),
Mumbai-400 085.

J. C. Bose Memorial Award

Prof. Satyender Pal Khatkar,

Emeritus Scientist, Professor and Head,
Department of Chemistry, M.D. University,
Rohtak-124 001.

Millennium Plaques of Honour

Dr. S. Chandra Nayaka,

Professor & Principal Investigator - (ICAR-
AICRP),
DOS in Applied Botany and Biotechnology,
University of Mysore, Manasagangotri,
Mysore-570 006.

R. C. Mehrotra Memorial Life Time Achievement Award

Dr. Sanjay Mathur,

Adjunct Faculty,
Department of Metallurgical & Materials
Engineering,
Indian Institute of Technology Madras,
Chennai - 600 036.

Professor Umakant Sinha Memorial Award - New Biology

Dr. C. D. Mohan,

Assistant Professor, Department of Studies in
Molecular Biology,
University of Mysore, Manasagangotri,
Mysore - 570 006, Karnataka.

B. C. Deb Memorial Award for Popularisation of Science

Dr. Sachin Kumar Singh,

Associate Professor at School of
Pharmaceutical Sciences,
Lovely Professional University,
Jalandhar-Delhi G.T. Road (NH-1) Phagwara,
Distt. Kapurthala, Punjab 144 411.

Dr. (Mrs.) Gouri Ganguly Memorial Award for Young Scientist - Animal, Veterinary and Fishery Sciences

Dr. Subrota Hati,

Assistant Professor, Department of Dairy
Microbiology,
Anand Agricultural University, Anand-388 110,
Gujarat.

Prof. G. K. Manna Memorial Award - Animal ,Veterinary and Fishery Sciences

Dr. Yasir Hasan Siddique,

Assistant Professor, Section of Genetics,
Department of Zoology,
Faculty of Life Sciences, Aligarh Muslim
University,
Aligarh - 202 002 (U.P.).

B. C. Guha Memorial Lecture

Dr. Somenath Roy,

Ex-Professor, Immunology & Microbiology Laboratory,
Department of Human Physiology with Community Health,
Vidyasagar University, Midnapore-721 102, W.B.

Raj Kristo Dutt Memorial Award

Dr. Sandipan Ganguly,

Scientist E (Deputy Director) & Head.
Division of Parasitology,
National Institute of Cholera and Enteric Diseases (ICMR),
Department of Health Research, Govt. of India,
P-33, C.I.T. Road, Scheme XM, Beliaghata, Kolkata - 700 010.

G. P. Chatterjee Memorial Award

Dr. Raghavendra S. Kulkarni,

Professor & Chairman (Retd.), Department of Studies in Zoology,
Gulbarga University, Jnana Ganga Campus, Gulbarga-585 106.

Professor Hira Lal Chakravarty Award - Plant Sciences

Dr. Jitender Giri,

Scientist, Lab No.110, National Institute of Plant Genome Research,
Aruna Asaf Ali Marg, New Delhi-110 067.

Prof. Sushil Kumar Mukherjee Commemoration Lecture -Agriculture and Forestry Sciences

Dr. Suresh Kumar,

Principal Scientist & Principal Investigator,
Division of Biochemistry, ICAR-Indian Agricultural Research Institute,
Pusa Campus, New Delhi-110 012.

Prof. S.S. Katiyar Endowment Lecture - New Biology / Chemical Sciences

Prof. Alok Dhawan,

Director, CSIR-Indian Institute of Toxicology Research,
Vishvigyan Bhawan, 31, Mahatma Gandhi Marg,
Post Box - 80, Lucknow - 226 001, U.P.

Prof. R. C. Shah Memorial Lecture - Chemical Sciences

Dr. B. M. Praveen,

Director – Research and Innovation Council,
Srinivas University, Mukka, Mangaluru - 574 146;

Prof. William Dixon West Memorial Award - Earth System Sciences

Dr. C. Manikyamba,

Chief Scientist & Professor (AcSIR-NGRI),
Head, Geochemistry Division, CSIR-National Geophysical Research Institute,
Uppal Road, Hyderabad-500 606, Telangana.

107TH INDIAN SCIENCE CONGRESS, BANGALORE, RECOMMENDATIONS FROM THE SECTION

The 107th Indian Science Congress was organized with the Focal theme; “*Science and Technology: Rural Development*”. The recommendations from different sections on the discussion related to the above focal them are given below:

AGRICULTURE AND FORESTRY SCIENCES

The theme of the Agriculture and Forestry Sciences was “*Integrated Agriculture and Rural Bio-entrepreneurship*” for Agricultural Sciences and for Forestry Sciences. Within the framework of 107th Indian Science Congress “Farmers Science Congress” was organized on 06.01.2020 with the theme “*Farmers Innovation Driving Integrated Agriculture and Rural Bio-entrepreneurship*”. Recommendations are as follows:

- 1. Integrated Agriculture for bringing self-reliance in Rural India:** Integrated Agriculture can be considered as renewable agriculture and an important pathway to nutritional security. It is the need of the hour for Indian agriculture. Integrated agriculture needs to be promoted in order to reduce the massive use of industrial inputs, which has broken the chain of the interaction in farming systems, contributing to climate change due to low carbon footprint and leading to unsustainable agriculture.
- 2. Doubling Farmers Income:** Integrated Farming Systems is considered as the potential tool and master plan for the development of small & marginal farmers in the country for doubling the farmer’s income. Policy support is needed in terms of promoting Farm Development Card and Developmental Farm Model at the ground/farming system level.
- 3. New India:** “New India” one of the important vision of Prime Minister. In-order to contribute for this mission, a Student Ready Programme is launched by ICAR for Experiential Learning Programme, which can be properly implemented for the skill development of the students & promoting large scale entrepreneurship.
- 4. Holistic and system approaches** in agriculture needs to be promoted. The component and disciplinary approaches dominant in Indian Agriculture needs to be replaced by holistic and system approach for sustainable agriculture and sustainable development of small & marginal farmers.
- 5. International Year of Integrated Agriculture:** Proposal to UNO to celebrate international year of Integrated Agriculture by UNO is an Important strategy and recommendation for promotion of Integrated Agriculture systems in national and international agriculture.
- 6. Convergence and Collaboration:** Convergence of line department & other organizations at ground/farming system level for synergy is important. Through holistic and system approach such synergy can be achieved. More output from the available infrastructure in agriculture is possible through bringing convergence on various programmes and institutions.
- 7. Imbalanced fertilizer use and heavily depending on industrial inputs like fertilizers is causing micro-nutrient deficiency.** This is also affecting the human and animal health. Zinc deficiency

has become a major issue in Indian agriculture which can be addressed through integrated nutrient management.

8. **Natural Farming and Zero-budget Natural Farming:** Natural Farming and Zero-budget Natural Farming are important agricultural practices are not yet explored properly. There practices are important for efficient use of local resources, which is not happening due to influence of industrial agriculture. There is need of systemic research to develop viable and replicable protocol is needed.
9. Bamboo-based products making provides opportunity for rural youth for entrepreneurship development and rural income generation. There is need of skill development of rural youth and farmers for value added products of bamboo. Such programme can be intensified in NEH region where bamboo bioresources are readily available.
10. **Ecotourism:** Ecotourism in rural areas can attract the tourists and contribute to rural economy. Community managed nature tourism which is unique and Odisha model is an example. It is managed by local villagers. **Vana Surakshy Samit** (VSS) consisting of rural youth and women manage the same by performing various activities and get employment. This reduces dependency on forest resources including fire wood and small timbers by the villages. This is very important for sustainable livelihood of villagers.
11. Integrated agriculture system (IAS) is an important pathway to bio-diversity conservation. Integrated agriculture, promotes a rich culture of biodiversity through maintaining a multi-enterprise production systems of flora and fauna. There has been an ever increasing dominance of economically-driven highly intensive farming systems over ecologically-oriented traditional agricultural systems all over the globe. Such a shift is rapidly reducing the diversity of cropping systems and diminishing the quality of available habitats for various organisms associated with agricultural landscapes, and hence adversely affecting the existing biodiversity. Promotion of IAS is important strategy world over for the biodiversity conservation.

ANIMAL, VETERINARY AND FISHERY SCIENCES

With a view to promote more livelihood in rural India, Govt. should initiate a detailed programme to train rural youth with Pisciculture, Apiculture, Duckery, Piggery, Lac culture, Prawn and pearl culture, etc., so that they can earn money and contribute to the national economy.

1. Bio-resources are the wonderful gift of nature to mankind whose sustainability can be effectively linked to rural livelihood and economic development, so science education should aim at attracting students for proper management, sustainable utilization and innovative idea of bio-resources.
2. The assemblage of species with which we share the planet represents 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 the forms with a view to ensure rural livelihood, food, health and financial security for future.
3. Ensuring dangers of climate changes to biodiversity be recognized and integrating measures be undertaken on priority to conserve the biodiversity.

4. Biotechnological tools and innovative ideas should be used for the conservation, management and restoration of all types of habitats.
5. Checklist of local fauna be prepared to know the status of biodiversity and submit the same to the concerned agency to undertake conservational measures.
6. Emphasis must be enhanced in the form of major research findings to harnessing more animal protein from the aquatic resources to ease out the pressure on land resources.
7. Basic Biology should be made an integral part of undergraduate and postgraduate studies in biotechnology, microbiology, bioinformatics and other modern biology disciplines
8. With a view to conserve biodiversity, emphasis on strengthening of classical zoology in the syllabus of undergraduate and postgraduate 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.
9. National funding agencies should provide sufficient funding for research on animal taxonomy as classical taxonomy has gone on backfoot during the last 2 decades and proper identification of species of biodiversity importance has become a problem for young researchers.
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 the human being.
11. In order to augment the inland fishery production, there is a direct 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.

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

Before India got independence, some 72 years ago from today, it was said that “The real India live in village”. This ideas seem to hold till today as more than double the size of Indian Urban population live in rural area and almost 10times the size of the urban area constitute rural area. With this fact in the backdrop, our country can become a developed nation only when the rural areas are fully developed through application of science and technology. But the real application of science and technology cannot be accomplished without understanding the social, cultural , life style, behavior and psychology of the people.

Keeping this in view the following recommendation are made from the deliberations made by the paper presenters.

1. Before taking up any policy programme for development of any area/region, the socio –cultural and psychological aspect of the people / inhabitants should be take into consideration.
2. Policy makers should seek the suggestion and comment of the social scientist, anthropologist , psychologist and behavioral scientist before implementation of any policy programme.

3. In order to get the knowledge of the behavioral and social scientist, anthropologist and psychologist should be coped up as a member of drafting of any policy programme.

CHEMICAL SCIENCES

To meet the challenges of the twenty first century it's essential to have collaboration between academic institutions and Research and Development divisions of industries which is the key of innovation. These collaborations pave the way to create pathways to knowledge and technology transfer from academia to industries or vice-versa. One of the most important outcomes of such collaboration is the development of highly skilled human resource. The panel discussion was held on Jan 5th, 2020 in the Chemical Science Section and discussion was centred on the following topics:

1. Current scenario of academia industry relationship
 2. Industry needs and trends in research
 3. Knowledge Transfer from academia to industry and job opportunities
 4. Joint R&D projects with government support and joint doctoral programmes
 5. Curriculum development, a joint venture of academia and industry
- Panel Discussion on Partnership/Collaboration between Academia and Industry was held . After detailed discussion following recommendations were made:

- It was agreed upon that industry academia relationship need to be strengthened.
- The panel recommended that IIT/IISc/IISER model of bureaucratic system should be implemented in each academic institute of the country.
- The panel recommended that there is need to involve the industry in framing the curriculum of the University and experiments should be designed in such a way that it solves the local/ industrial problems.
- The panel recommended that industry should come forward to involve students for internship.
- A joint PhD program between academia and industry should be started.
- Government of India should encourage the Industry and Academic institutes to undertake projects that can help in making novel processes for the AIP's which is procured from China at the moment. So, funding on such proposals should be made available.

EARTH SYSTEM SCIENCES

Role of geosciences together with spatial information technology be involved for development of smart city and villages for Disaster Risk Reduction and Resilience measures.

1. To encourage researchers in structural manoeuvring of coal and shale with emphasis on organic petrology, organic, chemistry stable isotopes of coal, shale and gas as well as trace elements and Rare Earth Elements (REE) destruction in organic rich rocks.

2. Wider application of spatial information technology will provide impetus to rural development incorporating social role in scientific development in order to develop pragmatic policy.
3. Earth science education be extended to various levels and Geography/Geology departments of the universities and colleges be involved to collect weather information with support from IMD, Govt. of India.
4. Upper atmospheric data need to be collected through commercial aircraft by stalling weather station for improving science of climate change.
5. Setting up of 'Geo Science Education Research Institute of India' at the earliest to train the school teachers and teachers trainers and to carry out research on the teaching learning of Geospatial Information Technologies and Geo heritage in the country.
6. Initiating a project "Vasundhara" meaning Planet Earth in India as education tour for children, young and public simultaneously attracting domestic and international tourism.

ENGINEERING SCIENCES

1. Considerable scope exists to improve Rural Economy by utilizing knowledge and skills of Engineering Science. For example, 8000 Biogas plant constructed by Bhagirath Gramvikas Pratisthan is a huge success in Sindhudurg district of Maharashtra. This could be replicated suitably across for longer economic gain to rural community. Other prospects of convert waste biomass to wealth e.g. biochar may also be emphasized for rural development.
2. There is a strong need to develop Indian Centric Innovation focus right from the University level so as to impart right socio-economic sensitivity to engineering students. Different means to harness knowledge and skills of Engineering Institute for rural development and solving societal problems may be accelerated. "Unnat Bharat Abhijan" being conducted by IIT Delhi may be further expedited to the entire Indian covering all engineering institutes.
3. For smooth commercialization of indigenous technology, there is an urgent need to fund the demonstration stage of technology development. It is felt that "Mission Oriented Approach" is required to develop a strong linked among industry and various academic and research organization. For this, it is recommended to create a "National Centre for Energy & Materials" to accelerate the commercialization and coordination of inhouse developed technologies in Energy & Materials sector, in line to the ISRO model for Space research.
4. Sustainable technologies e.g. waste plastic and biomass conversion, CO₂ capture and utilization and renewable energy are the few major areas where significant emphasis needs to be given right from university level.
5. Engineering education also needs to adapt the new areas of economic and environmental viability, start up culture, green chemistry, artificial intelligence and robotics, moral and ethical practices, leadership qualities etc to develop students with visionary and business skills.

ENVIRONMENTAL SCIENCES

1. India is facing an acute problem of land degradation, including deteriorating soil health of agroecosystems; this calls for an urgent attention towards restoring the degraded lands, especially the soil health of agricultural landscapes, in mission mode and effective science & technology based interventions.

2. The rapid urbanization in the country is causing various environmental problems, including land abandonment in rural landscapes and related ecological and economic consequences. Therefore, greater attention is required to transform predominantly rural landscapes, such as the Indian Himalaya, with implementing concept of 'smart village' with effective use of science & technology.
3. Various R&D based agencies have developed and demonstrated pilot level success towards addressing issues of environmental deterioration in the country (i.e., air and water pollution, degradation of land, contamination of food, etc.). However, achieving scale remains an issue for all these success stories. This requires a concerted effort for scaling up all such pilots to benefit masses and bring impact on ground.
4. Despite availability of advance technology and know how, the benefits of space technology are yet to be realized fully. Therefore, more intensive use of available space based technology in assessment and monitoring of natural resources, designing and planning developmental projects, implementation and monitoring of success of programmes, etc., needs to be promoted across the country. This would require developing adequate skilled manpower.

INFORMATION AND COMMUNICATION SCIENCE AND TECHNOLOGY (INCLUDING COMPUTER SCIENCE)

Current and future applications of ICT is needed in order to:-

1. Preserve, protect and promote social harmony.
2. Ensure the growth of economy in a sustained manner and more in a manner that generates employment so that each family is assured of a safe and viable livelihood.
3. Enhance the welfare and well-being of farmers, farm labour and workers, particularly those in the unorganized sector and assure a secure future for their families in every respect.
4. Empower women educationally and ecumenically.
5. Provide for full equality of opportunity to every sections of the society.
6. Unleash the creative energies of our entrepreneurs, businessmen, scientists, engineers and all other professionals and productive forces of society.

It was concluded that in order to achieve the inclusive and sustainable development for a diverse nation like India, the power and potential of the computing, in general and Information and Communication Technologies (ICTs), in particular, need to be harnessed to its fullest, in all focal areas related to the development having special focus on the following 05 critical areas:-

1. Agriculture and food processing
2. Education & Healthcare
3. Reliable & Quality Electric Power
4. Hard & Soft Infrastructural Development
5. Seamless & effective last mile delivery of the services to the citizens.

Concluded that considering the present ecosystem, in which more than 800 million people in India alone and over 03 billion people globally are living in villages, any mission towards achieving sustainable global development will not generate fruitful result unless the applications

of computing reaches to the most underprivileged and deprived section of the society, living in the villages. The concept of PURA (Providing Urban Amenities in Rural Areas), conceptualized by our beloved former President of India; Late Dr. APJ Abdul Kalam, needs to strengthen in a big way, at all level.

MATERIALS SCIENCE

1. Major focus to have on the Emerging field Nanomaterials fabrication especially for energy and health.
2. Importance to be given to Materials Science making it an important part of curriculum of higher education and research

NEW BIOLOGY (INCLUDING BIOCHEMISTRY, BIO PHYSICS & MOLECULAR BIOLOGY AND BIOTECHNOLOGY)

1. The major focus of this section was to give emphasis on the basic understanding of various diseases like, cancer, viral infection and parasitic diseases to discover new drugs and cheap but sensitive diagnostic kit that can be used in remote villages without any sophisticated instrument and critical expertise.
2. Understanding basic problems of agriculture to solve the issues like pesticide and/or insecticide resistance, productivity, combat various infections using transgenic approach to reduce crop loss. Another important issue addressed was to develop drought and saline resistance variety of important crop by molecular and classical breeding approach.
3. All GOI funded research should have a mandate to present their work at least once in Indian Science Congress. Each JRF and/or SRF receiving fellowship from DBT, DST, ICMR, CSIR, ICAR etc. should present their work at ISC at least once during their fellowship tenure.

PHYSICAL SCIENCES

Since one of the title of the symposium is “Photonic: An emerging Physical Science discipline for energy, environment, and health care in rural setting”, the recommendation is focused to Photonics and its future in our country. For a layman, photonics is the science and technology of light, with emphasis on applications. The birth of photonics as a physical science discipline coincided with the invention of the laser in 1960 followed, in the 1970s, by the development of optical fibers as a medium for transmitting large quantities of information through light beams which is responsible for the telecommunication revolution of the late 20th century.

Photonics technologies become an ever growing science and technology in the physical science discipline includes studies related to laser science and development, nanostructures and materials modifications, applications in the biological and chemical sciences, biomedical engineering and therapy, display and lighting technology, and optical computing. Other important disciplines are:

- (i) Medicine and biomedical engineering: Novel imaging technologies including Optical Coherence Tomography (OCT), Confocal Microscopy, and THz imaging, medical diagnostics and treatment, cancer detection and treatment ,DNA analysis, etc.

- (ii) Information Technology: Optical fibers and free space optical communications, Optical data storage and optical data processing, Optical interconnects Optical Integrated Circuits and in the future, optical computing including quantum computing and quantum encryption, etc;
- (iii) Metrology: Time and Frequency measurements, precise metrology and mechanical components, etc;
- (iv) Entertainment: laser shows, beam effects, holographic art.
- (v) Defence and Security: satellite surveillance systems, navigation, night vision and thermal, imagers, missile guidance, anti-missile systems, high-power directed-energy weapons, IR sensors, command and control, search and rescue, mine laying and detection, etc;
- (vi) Consumer Equipment : Energy-efficient LED illumination, barcode scanners, laser printer, CD/DVD/Blu-ray devices, remote control devices;
- (vii) Industrial manufacturing: Laser material processing including welding, drilling, cutting, and various kinds of surface modification, semiconductor chip manufacturing and inspection, printing, laser and fiber-optic sensors, etc;

In view of such synergy between basic research and applied sciences makes photonics an important topic of science and technology for our country's strategic aim of developing a dynamic knowledge-based economy. So, the importance of photonics makes it mandatory for a proper policy to be chalked out by the Department of Science and Technology, Govt. of India to ensure that there is enough support for photonics research and utilization of developed technologies to make a real impact on our nation's developmental goals in the scientific, industrial and societal realms.

What is to be done?

In order to facilitate focused, multidisciplinary, inter-institutional research in photonics, it is proposed the following:

1. To establish a **Photonics Mission** with large funding like that a **Nano-mission** by DST
2. Organising regular schools and workshops to undergraduate and graduate students, and college and university academic personnel.
3. Fund has to be made available to state level universities and well recognized post graduate colleges (where a majority of the bright talents study) having research environment.
4. Allocating research funding on the basis of high-level peer review
5. Regular monitoring of approved projects.
6. Creating awareness of, and facilitating the safeguarding of intellectual property rights arising out of photonic R&D activity within the country.
7. Facilitating regular interactions between laboratories such that resources in various institutions are utilized to the optimum.

PLANT SCIENCES

Realizing the SSR initiative in rural perspective following recommendations emerged:-

1. Efforts should be made to identify economically important plants occurring in waste- / polluted- / inhospitable- lands to explore their prospects for plantations as secondary crops in the native habitats as a scientific social responsibility
2. Necessary emphasis be laid to community empowerment through employment generation to rural communities in greening of green energy through conservation of natural resources (water, soils, green cover) for optimum utilization and promotion of native crops as a subsystem of ecosystem without destroying the ecosystem.
3. In order to prioritize and shortlist species for medicinal plants cross cultural ethnobotany be started.
4. Educational institutions in the given phytogeographical areas may be entrusted to educate local communities to conserve select species based on the information made available through science of floristics, environmental botany, chemical ecology, plant-insect-animal interaction biology.
5. To combat imminent threat of invasive species to natural flora, awareness programmes need to be undertaken to educate local communities to get rid of alien plants vis-à-vis conservation of natural flora.
6. Necessary research programmes be strengthened for development of non-conventional agro-technologies both by development of new varieties as well as use of innovative cultural practices based on biological fertilizers, microbial stimulants etc. relevant to rural India.
7. Basic studies need to be undertaken on prospecting of trait specific genes, tissue and cell specific localization of useful bioactive principles, therapeutic potential of endophytes, exploration of phytochemicals for suitable formulations and product development under Make in India in rural India.

RECOMMENDATIONS

CONCLAVE OF THE VICE CHANCELLORS:

1. E -Governance should be adopted in all the Universities leading to paper less administration as early as possible.
2. The Vice Chancellor to be appointed in the Universities should be a Visionary, an inspirer of Faculty and a Chief Fund raiser to the university.
3. There is a need to bring in the system of Accountability at all levels in the University.
4. Evolve a system of appointing the best faculty in the University.

5. University should enjoy more autonomy with proper Accountability.
6. Universities should adopt extension activities to address societal problems with the involvement of all the students. The spirit of these activities should meet the aspirations of PURA concept given by the earlier President of India late Dr APJ Abdul Kalam.
7. In order to get good students to science stream to Higher Education the Universities may adopt programs to have intervention at lower levels like Secondary and higher secondary levels.
8. A seminar to be organized by FVCK with the involvement of all stakeholders to suggest for comprehensive amendments to the KSU Act.

FARMERS SCIENCE CONGRESS

1. Farmers Science Congress should be a regular feature in the every Indian Science Congress event to facilitate farmers-scientists interaction and mainstreaming of farmers innovations.
2. ICAR may create a corpus fund in the name of Farmers Innovation Fund to felicitate farmers' innovations and extend financial support to test, validate and upscale the innovative ideas of farmers.
3. Scientific validation of farmers' innovations may be taken up by the ICAR/SAU research system on a regular basis.
4. Integrated farming system models identified by ICAR and SAUs and those being practiced by farmers need to be replicated with focus on reducing farmers distress and inducing sustainability to the farming systems.
5. Impact of climate change on agriculture and allied activities is a reality which needs to be understood in totality and has to be addressed in a multidisciplinary approach.

WOMEN SCIENCE CONGRESS

- To meet the Climate Change Challenges in Urban and Rural areas / Building of Environmental Infrastructure for preserving forest and biodiversity at higher altitudes
- Identification of Unexploited Citrus diversity of Manipur
- Geotextile and Nano Science from plant & plant products
- Mulberry cultivation –Environmental Safe Guard
- User friendly Semi-automatic bioreactors for tissue culture to increase plantlets
- Women friendly environmental policy
- Women and nutrition- for better women health.

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

Highlights of ISCA Chapter Activities (2019-2020)

Focal Theme- “Science and Technology: Rural Development”

ALLAHABAD CHAPTER

Convener : Prof. I. R. Siddiqui

Observed National Science Day on “History and Significance” on 28th February, 2019, Earth Day on “Save Our Species” on 22nd April, 2019, World Environment Day on “Air Pollution” on 5th June, 2019. Organized two days National Seminar on “recent Advances in Chemistry and its Impact on Society” in association with S. S. Khanna Girls P. G. College, Prayagraj between 26th-27th November, 2019 at S. S. Khanna Girls P. G. College, Prayagraj. Science Model Exhibition and debate on “rural Development” was organized on 21st December, 2019 at MRS school and College, Patel Nagar, Jhunsi, Prayagraj. Organized a two days National Seminar on “Science and technology : Rural Development” at Dr. Shakuntala Mishra National Rehabilitation University, Lucknow during 8th-9th February, 2020. The inauguration of the Seminar was Presided over by the Hon’ble Vice Chancellor of the DSMNR University Prof. R. K. P. Singh. Dr. (Mrs.) Vijay Laxmi Saxena, General President (elect) of ISCA was the Chief Guest and Dr. A. K. Saxena, Former General President of ISCA and Prof. S. Ramakrishna, General Secretary of ISCA were the Guests of Honour.

AMRAVATI CHAPTER

Convener : Dr. Atul Kesharao Bodkhe

Organised in collaboration with Shivaji Science College two days national conference on “Science and Technology: Rural Development” during 27th and 28th November 2019. The programme was inaugurated by Chief Guest Dr Mrs Vijay Laxmi Saxena, General President (Elect), ISCA and presided over by Shri Harshvardhan Deshmukh, President of Shri Shivaji Education Society, Amravati. Dr Ashok Kumar Saxena, Elected member of Executive Committee and Former General President ISCA, Dr M K Chakrabarti, Immediate Past General President, ISCA, Dr Anoop Kr. Jain, General Secretary Scientific activities ISCA, Dr Sheo Satya Prakash Treasurer ISCA, Dr Mrs N

Chakrabarti, Elected member of Executive Committee ISCA, Dr V. P Uniyal, Scientist G Wildlife Institute of India Dehradun, Shri N Thakare, , Adv Gajanan Pundkar,, Shri Dilip Ingole, and Shri Hemant Kalmegh, from Shri Shivaji Education Society Amravati, Dr Kishor Rithe, Chairman Satpuda Foundation were the guests of honours. Dr S. W. Anwane delivered the vote of thanks. Key-Note address was delivered by Dr C.R. Babu, Professor Emeritus University of Delhi. Dr Jayshankar Pande, Chief Scientist and Head Climate Change, Dr Habib Bilal, Scientist Wildlife Institute of India Dehradun and Dr Lal Sing, Senior Scientist NEERI, CSIR were the Plenary speakers. Total 31 research papers were presented and 73 posters were displayed. Chapter in collaboration with Arts, Commerce and Science College Bodwad, Dist. Jalgoan and Government Veterinary College Mumbai organized a national conference and also organized popular talks and poster competitions in association with Matoshri Vimalabai Mahavidyalaya Amravati, Government Vidarbha Institute of Science and Humanities and Shri Shivaji College Akola on the Focal theme.

BANGALORE CHAPTER

Convener : Prof. Gangadhar

Organised two days National conference on Science & Technology: Rural development in association with Institute of Excellence & Centre for Material Science & Technology, University of Mysore & Karnataka Science & Technology Promotion Society, on 17th & 18th October 2019. Prof. K. S. Rangappa General President inaugurated the conference. Prof. Vijay Laxmi Saxena, General President (Elect.) ISCA, who was the Chief Guest of the occasion, said that the information technology has played a significant role in improving the quality of life in rural areas. Prof. Ashok Kumar Saxena the former President of ISCA released the Souvenir Abstract book of the conference. Prof. K. J. Rao, Indian Physical chemist & an emeritus Prof. at the Indian Institute of Science, Bangalore delivered the key note address. Prof. Hemanth Kumar Vice-Chancellor, University of Mysore presided over the function. Prof. Srikantaswamy S. Director College Development Council University of Mysore extended warm welcome to all the participants & guests. Prof. Gangadhar Convener ISCA Bangalore chapter spoke on the theme of the conference. After the inaugural function technology sessions, were arranged. Prof. R. K. Verma Vice – Chancellor, Munger University, Bihar, Prof. B. K. Das Director CIFRI, Kolkata, Prof. R. S. Kulakarni, Gulbarga University, Prof. Viswanath from University of Mysore, Prof. Bhjyanaik Kumvempu University Shimoga, Prof. K. Byrappa Pro – Chancellor, Adichunchanagiri University Mandya delivered the plenary lectures. Many Senior Scientists / Vice Chancellors / Resource persons served as chairpersons & Co-Chairpersons of the technical sessions. In the two days technical sessions 66 oral presentations & 48 poster presentation was arranged. Prizes / awards were given to the best presentations in the valedictory function. Valedictory function was held on 18th October 2019 at 4.30 pm. Prof. N. S. Ramegowda, former Vice-chancellor Karnataka State Open University was the Chief Guest. Prof. Shivappa Registrar, University of Mysore graced the function as guest of honour. Prof. K. S. Rangappa General President ISCA presided over the function & distributed the prized / awards to the best oral presentation & poster Presentations. Prof. Gangadhar convener ISCA Bangalore chapter presented the report of two days national conference. Dr. Srikantaswamy Director College Development Council University of Mysore proposed Vote of Thanks.

BARODA CHAPTER

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

Conducted an invited talk, celebrated international Yoga day, a one day seminar on human health, a national seminar and, a two day national conference. Invited talk was organized under the theme of lifestyle management for health & happiness to create awareness among the students how to balance their lifestyle to stay healthy and happy. Yoga day was Celebrated on the International Yoga Day. Many students participated and got benefitted by the practical demonstration of different asana. A one day national seminar on “Human Health : need of the hour” was conducted. Renowned speakers from different areas gave their talk on different health topics. The National seminar on Science and Technology in Rural Development was conducted at college situated in rural area of Baroda where many students belonging to rural community got benefitted from the knowledge of invited speakers. The National Conference on Pteridophytes was conducted for two days where many speakers and students participated from different states of country.

BHUBANESWAR CHAPTER

Convener: Dr. Kajal Parashar

National Seminar on Science & Technology: Rural Development, December 13-14, 2019 was jointly organised by ISCA Bhubaneswar Chapter and KIIT Deemed to be University Bhubaneswar. Distinguished members and Scientists including Prof. V.L Saxena, General President, (Elect), ISCA; Prof. S. Ramakrishna, General Secretary, Membership Affairs, ISCA; Dr. B. K Das, Director, ICAR-Central Inland Fisheries Research Institute; Prof. P.P. Mathur, Former General Secretary, Scientific Activities, ISCA Past General Presidents Dr. M.K Chakrabarti and Prof. A. K. Saxena, Dr. Anup Kumar Jain, General Secretary (Scientific Activities) ISCA; Dr. Sheo Satya Prakash, Treasurer ISCA; Innovator Mihir Kumar Panda and Prof. J. R. Mohanty, Registrar, KIIT-DU put their meticulous and analytical views on different aspects of the theme.

CHENNAI CHAPTER

Convener : Prof.C.Muthamizchelvan

Organised one day special talk on ‘Integrated Sensors’, SRMIST, Kattankulathur, Chennai; National conference on ‘Biotechnological Advances in Biomedical, Environmental & Agricultural Technologies’, Beat2k19 Hindustan College of Engineering, Chennai; Workshop on Women Empowerment, SRIMIS, Ramapuram, Chennai; Insight from inside – X-ray Tomography of Granular Media- SRMIST, Kattankulathur; National conference on ‘Environment and Food sustainability, G.N.College, Chennai; Workshop on growth & Characterization studies on non-linear optical crystals-CKNaidu College, Chennai; The war against drugs must be won in the class room, not in the court room-SRMIST, Kattankulathur, Chennai; An Inter-school District level science exhibition for secondary and higher secondary students of north Chennai and Thiruvallur, District – Ambedkar College, Chennai; Evolution of Science and Technology in India (ESTI) – SRMIST, Kattankulathur; Search of Science Communicators’ Meet (SCM 2019), SRMIST, Chennai; Recent advances in nano-materials chemistry for sustainable development – Madras Christian College, Chennai; One day state level workshop on ‘Live The Life’ – SRM Education and Research,

Kattankulathur, Chennai; National level seminar on infectious diseases and medical developments – Syed Ammal Coilege, Chennai; National Conference on Recent Trends in Biological Sciences – Asan Collee of Arts and Science, Chennai; Recent Trends in Biological Sciences’ – The Americal College, Madurai; National Science Day, SRMIST, Vadapalani, Chennai.

COCHIN CHAPTER

Convener : Prof. Dr. K. V. Jayachandran

Conducted International conference in association with Sree Narayana College, Kollan on 22-24th January 2020 on “Science and Technology for Rural Development : Current status and challenges for Conservation and Sustainable use of Biodiversity”. Mr. N. K. Premachandran M. P., inaugurated and conference. Prof. Dr. Marc David Abrams, USA., Prof. Dr. Prakasam, Ethiopia, Prof. Dr. Kathiresan, India were key persons and 18 other dignitaries gave key note presentations. One day National Conference was conducted at St. Joseph’s College, Moolamattom, Idukki on 10 February, 2020 on “Science and Technology – Rural Development : Involvement of Academic Institutions for Rural Development”. Five key Note presentations and 25 papers presented in the conference. Conducted two agriculture seminars at SEED office, Mararikkulam, Alappuzha District. Dr. N. K. Sasidharanan, Retd. Professor and Dr. K. V. Jayachandran took classes and distributed seedlings for 25 farmers ,at St. Augustine’s Parish Hall by Dr. N. K. Sasidharan, Dr. K. V. Jayachandran and Mrs. Aswathy Viswanathan and also distributed seedlings to 50 farmers. Also conducted awareness programme for differently abled people at AKPAHI office in which 35 volunteers were trained ; Dr. E. P. Yesodharan, Former Vice-Chairman, State Science and Technology Department gave talk on Transdisciplinary approach in modern research at Sree Narayana College, Cherthala ; Dr. Syad, gave a talk on Laboratory safety protocols; Renovated a pond in the premises and planted vetiver of St. Augustine’s School and established a vegetable garden and created awareness programme on conservation water through biological methods. Yoga Classes were conducted to 20 people. Mr. Manoharan, Yogacharya trained the participants ; Conducted awareness classes on COVID – 19 to local people at Mararikkulam, Alappuzha District and distributed masks and sanitizers.

COIMBATORE CHAPTER

Convener : Dr.C.A.Vasuki

Organized 23 programmes during this year to make awareness about the importance of science and technology for rural development, to know the recent technological innovations and to give hands-on training to various groups of people like farmers, public and school and college students. The programmes conducted include 2 international conferences, 5 workshops, 5 seminars, 5 awareness programmes, 1 hands-on-training and 5 special programmes *viz.* International Yoga Day celebration, Science Day celebration, World Wetland Day celebration, World Water Day celebration and World Forest Day celebration. Altogether more than 2500 members took part in the programmes and got benefitted.

DHARMANAGAR CHAPTER

Convener : Dr. Manik Bhattacharya

Conducted workshop on “ Sanitization of Rural Women on Health and Nutrition” and “Role of Science and Technology in Agriculture Development”, Seminar jointly organized with Department of Chemistry, GDC, Dharmanagar, Tripura Chemical Society, Workshop on “Evolution of Fitness Technology- A Scientific Approach to the Mankind” and Science based Games at GDC, Dharmanagar, Workshop on “Solar Eclipse and Eclipse Observation Camp” in all over Tripura, organized in collaboration with Tripura Astronomical Society. Quiz, Speech and Drama Competition at CTE, Kumarghat, Unokoti and Amarapur H.S. School, Gomoti, Tripura. National Seminar on “Science and Technology : Rural Development” jointly organized with GDC, Dharmanagar and R.K.M, Kailashahar. Science Awareness programme at MBB College, Agartala, Tripura.

HARIDWAR CHAPTER

Convener : Mr. Sanjeev Kumar Lambha

Celebrated International Yoga day & Festival of Yoga and Wellbeing in collaboration with the Department of Human Consciousness & Yoga, Gurukula Kangri Vishwavidyalaya, Haridwar, on 21st June, 2019. Over 300 participants of various age group from different parts of city participated. Science communicators’ selection was made in Department of Chemistry, Gurukula Kangri Viswavidyalaya, Haridwar. Two candidates were selected and their names were forwarded to ISCA headquarters. Took care of the toilet, bathroom and other works done in the village adopted in year 2015. A quiz competition was organized for the students of postgraduate level in the Department. An event based on experimental chemistry was organized with a theme “Colourful Chemistry in Gurukula Kangri Vishwavidyalaya. Haridwar A paper/poster presentation was organized for the students of postgraduate in the Department of Chemistry, Gurukul Kangri Vishwavidyalaya. Two days’ national conference was organized on February 15-16, 2020 at department of Chemistry and Department of Physics, Gurukula Kangri Vishwavidyalaya Haridwar on the theme ‘Science & Technology : Rural Development. Science Model competition on the occasion of National Science Day was organized on February 28, 2020. A total of 08 invited scientific talks in addition to those delivered in conference were organized for propagation of the cause of science during this year.

JAIPUR CHAPTER

Convener: Dr. (Mrs.) Payal Lodha

Celebrated Earth Day, National Education Day, World Environment Day, International Literacy Day, World Health Day, Student Day, Women’s Day, National Science Day and of Yoga Day. Organised National Seminar on “Role of Science and Technology Rural Development” from 11th–12th November, 2019 at University of Rajasthan, Jaipur; National Conference on “Climate Change: The impact on Biodiversity and Global Health Security “ from 20th-22nd December, 2019 at University of Rajasthan, Jaipur, Science model exhibition, Oral Presentation, Poster Presentation. Organised Science Awareness programme including Interactive Session on General health issues, current affairs related to School science in India and World, and Quiz competition Programming, Lectures related to pollution, environment and health held at Government schools in various parts of Jaipur.

JAMMU CHAPTER

Convener : Prof. Janak Singh Tara

The National Level Seminar on Science & Technology with Rural Development organised by Govt. Degree College, Samba, under the aegis of Indian Science Congress Association (ISCA), Jammu Chapter, The inaugural session of the seminar was attended by a huge gathering of scientists, researchers, teachers and students from within the state and other parts of India. Prof. A.K. Saxena, Former General President & Member Executive Committee, ISCA and a recipient of Sir Ashutosh Mookerjee Fellowship of ISCA was the Chief-Guest during the Inauguration while Dr. Manoj Chakrabarti, General President, ISCA was the Guest of Honour. Prof. Vijay Laxmi Saxena, General President Elect. ISCA 2020 presided over the function. Besides, Dr. Manoj K. Chakaravarti (Past General President ISCA) and Dr. Nibedita Chakrabarti, Elected Member of Council, ISCA also graced the occasion. Prof. H.S. Sehgal from Punjab Agricultural University, Ludhiana was the Keynote speaker. Lighting of Lamp was followed by a prayer to Maa Saraswati that was presented by students of GDC, Samba. Dr. G. S. Rakwal, Principal and Chief Patron of the Seminar gave his welcome address, Prof. A.K. Saxena, Chief-Guest of the inaugural session remarked that this ‘glorious convention’ would leave mark on scientific community of the area and help to disseminate the knowledge gained over years of scientific work among the masses. Outlining the scientific policies of ISCA, he elaborated on various awards, honours and fellowships provided by ISCA to those who have intent to contribute to the society by their scientific innovations. Dr. Manoj Chakrabarti opined that events like these provide a common platform for researchers, teachers and students to discuss and deliberate on how science can be put to the use for those who have long remained ignored and unreached due to their geographic remoteness. Prof. Vijay Laxmi Saxena, General President (Elect), ISCA focused on the role of scientific community in solving the problems faced by the rural India in agriculture, medical care, nutrition and education and said that this seminar will provide a healthy platform for the people from different walks of science to meet and discuss on how the vision of spreading the fruits of scientific advancement to the rural India could be fulfilled. Vote of thanks was given by Dr. Ranvijay Singh, Convener of the Seminar and Treasurer, ISCA, Jammu Chapter.

KANPUR CHAPTER

Convener : Dr. Ashok Kumar Saxena

Celebrated International Yoga Day, on 21st June 2019 where Inter-Collegiate teachers, 347 members of ISCA did yoga at Green Park Stadium. Organised Physics workshop for class VI in the senior Assemble hall of Seth Anandram Jaipuria School Kanpur on the topic “Sound”. Organised workshop on “Challenge on Sensors” where sixty students from five different schools of cantonment area participated and three students were awarded for their best solutions based on sensors. Talk was Given by Navdeep Shridhar -Start-Up Facilitator under Start-Up India Scheme and Guest Speaker / Consultant at Directorate of Industries, UP. Institute of Company Secretaries of India, Kanpur Chapter -IIT Kharagpur – Entrepreneurship Cell, Interschool Essay Writing Competition on Need of Young Innovators was organized. Hindi Saptah function was organized in memory of Dr. Sujata Verma at SNSen Degree College, Kanpur. The function was inaugurated by Vice Chancellor of CSJM University, Kanpur. Total number of 451 students and teachers participated in the function. Selection of two Science Communicator, many of the research scholars and college Teachers

participated in this selection process. 3rd to 4th December, 2019 National Conference on Science & Technology : Rural Development was organized in Collaboration with C.S.J.M. University, Kanpur, Department of Zoology, D.A.V. & D.G. College, Kanpur. Prize Distribution was held at Seminar Hall of DG (PG) College, Kanpur. Workshop on Skill Development in Biology through Computer. Student from various Inter Colleges attended the Workshop. Total number of 35 students participated in the Workshop. Celebrated National Science Day on 28th February 2019 where 21 college students with Power Point presentation spoke on different aspects of science.

KOLKATA CHAPTER

Convener : Dr. Tusharkanti Ghosh

Considering the importance of science and technology in the rural development of India a two-day National Conference on the focal theme was held at surendranath College on January 20-21, 2020. Dr. V. L. Saxena ,General President , Elect, ISCA Dr. S. Ramakrishna, General Secretary, Membership Affairs, ISCA and Dr. M. K. Chakrabarti , Former General President, ISCA delivered lectures in inaugural function. Dr. A. K. Saxena, Former General President, ISCA released the Book of Abstract of the seminar. About 200 scientific papers were presented in nine different sections in this conference. In addition to the celebration of Festival of Yoga and Well-being, and Outreach Program of IISF 2019, about 11 scientific seminars, science exhibition, quiz competition and awareness program were organized.

PATNA CHAPTER

Convener : Dr. Jyotirmayee Ranjana

Organised one day National Seminar on 14 the September 2019 on the topic “Relivence of Periodic Table in Innovative Research and Chemical Education” at P.G Department of Chemistry, T.M. Bhagalpur University, Bhagalpur. Prof. D C Mukherjee, President, Indian Chemical Society, Kolkata was the Chief Guest. Dr. Sheo Satya Prakash, Vice-President, Ind. Chem. Soc. and Treasurer of I S C A introduced the Guest. Prof. R .Y Prasad, Pro V.C presided over the function. Dr. A K Jha proposed votes of thanks. 5 invited lectures and 30 papers have been presented. A Souvenir cum abstract has also been published. “ World Wetland Day” was celebrated on 03 February 2020 at Environmental Science and Management Deptt. Patna University, Patna. Dr. Dolly Sinha, Pro. V.C. was Chief Guest. “Wetland Biodiversity Matters” were highlighted. Dr. J Ranjana, Convener delivered a talk on JAL, Jeevan and Hariyali. Dr. S. S Prakash, Treasurer of I S C A also spoke. Vote of thanks was given by Dr. D. K Paul. National Science Day was organised by the Chapter at P. G. Deptt. Of Chemistry, T.M Bhagalpur University, Bhagalpur on 28th February 2020 with Quiz Competition.

PONDICHERY CHAPTER

Convener: Mr. M. Sundara Mohan

Indian Science Congress Association (ISCA), Pondicherry Chapter, Pondicherry University (PU), Centre for Bioinformatics and Pondicherry Science Forum (PSF) celebrated National Science day on on February 28, 2020. 300 students and 60 teachers from 35 schools and 75 students from Special children including Ananda Rangapillai Government Special School for Differently Abled

Children in Pillaichavady, Puducherry and 75 students from Sathya Special School participated. Mr. M. Sundara Mohan, Convener, ISCA Pondicherry Chapter welcomed the gathering. Mr. B. Ravichandrane, General Secretary, Pondicherry Science Forum delivered the felicitation address. Prof. A. Dinakara Rao, Centre Head, Centre for Bioinformatics, Pondicherry University delivered the inaugural address. Dr. V. Amouda, Treasurer, ISCA Pondicherry Chapter delivered the vote of Thanks. Mr. V. Arivarasan, Program Director, Parikshan Charitable Trust, Chennai delivered the Keynote address on “Science in Real Life”. It has been an eye-opener for the student community to pursue their career towards the science. 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. Quiz Program and Science Skit were simultaneously conducted. Science for fun – Elocution completion was conducted by assigning each person separate topic on the spot. Each competition was managed and maintained by judges. Prof. Rajeev Jain, Director of Culture & Cultural Relations distributed the prizes. Dr. V. Amouda, Treasurer ISCA, Pondicherry Chapter delivered the vote of thanks.

ROHTAK CHAPTER

Convener : Prof. S. P. Khatkar

Organized an International conference “Science and Technology : Rural Development” on 4th and 5th March, 2020 in association with Department of Chemistry, M. D. University, Rohtak. The Conference was inaugurated by Dr. Vijay Laxmi Saxena, General President, Elect, ISCA and attended by more than 500 participants from the different parts of India as well as from abroad from different fields. Dr. Ashok Saxena, Former General President, ISCA Prof. S. P. Singh and Prof. H. P. Tiwari Former General Secretaries, ISCA and Prof. K. S. Dhindsa graced the conference as guests of honour. In addition to this Science Exhibitions and Science awareness programmes and Science Day Celebration were organized in schools/colleges/ Chemistry department, M.D. University, Rohtak from January to March, 2020.

SAGAR CHAPTER

Convener : Dr. (Mrs.) Kalpana Jain

Celebrated on June 21, 2019 World Yoga Day at B. T. Institute of Excellence, Sagar. More than 150 students and teachers participated. Conducted Swachhata Bharat Abhiyan at Little Angel School, Cantt., Sagar, National seminar on “Science and Technology : Rural Development” at the Department of Pharmaceutical Sciences, Dr. Harisingh Gour University, Sagar from November 15-16, 2019 where more than 200 participants attended. Organised Science model and Poster competition at DPS School, Sagar, Painting workshop and competition on the focal theme “Science and Technology : Rural Development” in collaboration with “Rang ke Sathi” group at Ravindra Bhavan, Sagar. Celebrated: National Science day on February 28, 2020 at BT Institute of Excellence, Sagar (M.P.).

SHILLONG CHAPTER

Convener : Dr.Devesh Walia

Organised World Environment Day on 5th June, 2019; World Yoga day on 21st June, 2019. ISCA Lecture Series on Tectonic geomorphology of Brahmaputra River and Application of Geomorphology in Identification and mapping of Active fault by Dr. Bashab N. Mahanta, Suptdg. Geologist and Sh. B.R. Synagi, Senior Geologist, Geological survey of India. Bhuvismvad, an initiative of Ministry of Mines, Government of India by Dr. Bashab N. Mahanta, Suptdg. Geologist and Sh. B.R. Synagi, Senior Geologist along with Geological Survey of India. Jointly organised 4th North East Green Summit 2019 (NEGS 2019) with Shillong Chapter, ISCA on 1st – 3rd November 2019 at IIT Guwahati. Entrepreneurship Tinkering Program organised with Karmyo Foundation in collaboration and Incubation Centre NEHU. National Seminar on Earthquake Hazards: Perception, Mitigation and Management on 6th to 8th February 2020 organized in association with EWMI, Guwahati and sponsored by Ministry of Earth Sciences, New Delhi.

SHIMLA CHAPTER

Convener : Dr.(Mrs.) Neeraj Sharma

Organized one day National Seminar on ‘Future India; Science and Technology’ on 22 May 2019 at H. P. University Shimla, which was attended by about 200 participants. The Presidential address was given by Prof Sikander Kumar Hon’ble Vice-Chancellor of H. P. University Shimla. Prof K. S. Rangappa, General President ISCA, delivered the Key-note address. Prof. Gangadhar, Former General Secretary Membership Affairs, Dr. Sheo Satya Prakash, Treasurer ISCA and Prof Arvind Kalia, Dean of Studies H. P. University Shimla graced the seminar. International Yoga Day was celebrated on 21 June 2019 in which about 100 persons participated. Universal Brotherhood Day was celebrated on 11.9.2019 in the historic “Gaiety Theatre” Shimla. A day long declamation contest on topics related to environment preservation, water conservation etc. was organized in which about 50 students of 35 different Schools of Shimla participated. Sh. Suresh Bharadwaj ji, Hon’ble Education Minister, Himachal Pradesh Govt. was the Chief Guest. One day Seminar on “Young India know thyself” was organized for youth in H. P. University Shimla. Prof. Sikander Kumar, Hon’ble Vice-Chancellor H. P. University Shimla was the Chief Guest while ‘Shri Manas Bhattacharjee, General Secretary, Vivekanand International Foundation, Delhi was the key note speaker. Two Science Communicators were selected for representing ISCA .A one-day National Seminar was scheduled for 30/3/2020 but unfortunately postponed due to COVID-19. During the COVID-19 lockdown period, the ISCA – Shimla Chapter distributed masks, hand sanitizers and gloves within H. P. University Campus and also a few Govt. Schools and other educational institutions in Shimla.

TIRUPATI CHAPTER

Convener : Dr. K. Purnachandra Rao

Organised meetings on World Health Day, World Earth Day, World Nurses Day, International Day for Bio-Diversity, World Environment Day, International Yoga Day, by inviting students, faculty and communities from various places and Institutions. Science Communication seminar was conducted. Arranged lectures on National Natural resources development and conservation for future generations. Field visits were made for college students with local communities to create awareness on environment, energy Pollution and biodiversity. On the occasion of Children's day an exhibition was organized with the school children from various schools of Chittoor District. Naturopathy Day was organized to promote positive mental and Physical health through drugless system of medicine. National Science day was organized with the Chittoor District Zilla parishad High School Women Teachers who narrated their challenges on science experiments exhibits and motivation of students.

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

Hindi week programme was organized from 13th to 20th September, 2019. Hindi workshop and different competitions were organized.

Inauguration of Hindi week was organized by The Indian Science Congress Association along with Central Inland Fisheries Research Institute (CIFRI) Barrackpore on 13th September, 2019.

The inaugural programme started with ICAR song. The welcome address was delivered by Shri Rajeev Lal, Chief Administrative officer, CIFRI. After that lighting of lamp was done. Dr. Ashok Kumar Saxena, Former General President, ISCA, Dr. Manoj Kumar Chakarbarti, Former General President ISCA, Dr. (Mrs) Vijay Laxmi Saxena General President (Elect), ISCA, Dr. S. Ramakrishna, General Secretary (Membership Affairs), ISCA, Prof. Ranjit Kumar Verma, Past Treasurer, ISCA, Prof. Sheo Satya Prakash, Treasurer, ISCA, Dr. Bankim Chandra Jha, Former Head of Department, CIFRI and Dr. Basanta Kumar Das, Director, CIFRI, delivered speeches during inauguration.

The dignitaries were felicitated, Dr. Amit Krishna De, Executive Secretary, ISCA and Dr. Srikanta Samanta, Principal Scientist and Controlling Officer, Hindi Cell delivered Vote of Thanks. The programme ended with National Anthem.

PUBLICATIONS

The bi-monthly journal Everyman's Science (Vol. LIII Nos. 1-6) was brought out. Other publications brought out were : ISCA Directory : 2019-2020, Annual Report : 2018-19, Synopsis of the Presentations of ISCA Young Scientist Awardees for 107th ISC, abstracts of Best Poster Award Programme for 107th 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 2019-2020.

Name of the Body	Meetings held on
Executive Committee	May 02, 2019, October 15, 2019, January 02, 2020 (adjourned to January 07, 2020),
Council	May 03, 2019, October 16, 2019 and January 02, 2020 (adjourned to January 07, 2020)
Finance & Establishment Committee	May 02, 2019 and October 15, 2019 January 2, 2020
Advisory Committee	May 02, 2019, October 14, 2019, January 01, 2020

Besides above, two meetings of the General President with Sectional Presidents of 107th Indian Science Congress were held on May 03, 2019 and October 16, 2019. Also, meeting of Permanent members of Conveners of ISCA Chapters were held on October 15, 2019 and Chapter Conveners on January 02, 2020.

ISCA REPRESENTATION IN OTHER ORGANIZATIONS DURING 2019-2020

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. K.S.Rangappa, General President (2019-2020), UGC–BSR Faculty Fellow, Chief Scientific Adviser, Sinotar Pharmaceuticals Co Ltd, China, Former Vice-Chancellor, University of Mysore and Karnataka State Open University, Mysore, Distinguished Professor, University of Mysore, Institution of Excellence, Vijnana Bhavan, Manasagangotri, Mysore -570 006, Karnataka

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.

Indian National Academy of Engineering, Gurgaon:

Dr. N.B. Basu, Former 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, General President (Elect), 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, 7/182, Swarup Nagar, Kanpur - 208 002, U.P.

All India Institute of Medical Sciences, Bhubaneswar:

Prof. K.S.Rangappa, General President (2019-2020), UGC–BSR Faculty Fellow, Chief Scientific Adviser, Sinotar Pharmaceuticals Co Ltd, China, Former Vice-Chancellor, University of Mysore and Karnataka State Open University, Mysore, Distinguished Professor, University of Mysore, Institution of Excellence, Vijnana Bhavan, Manasagangotri, Mysore -570 006, Karnataka

All India Institute of Medical Sciences, Jodhpur:

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.

All India Institute of Medical Sciences, Patna:

Dr.(Mrs.) Vijay Laxmi Saxena, General President (Elect), 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, 7/182, Swarup Nagar, Kanpur - 208 002, U.P.

All India Institute of Medical Sciences, Raipur:

Prof.Gangadhar, Former General Secretary , ISCA, Syndicate Member(Ex), Bangalore University, Bangalore, Secretary, Society for Advancement of Biological Sciences, No 59,III Main, I Cross, Income Tax Layout, Vijaynagar, Bangalore-560 040

All India Institute of Medical Sciences, Rishikesh:

Dr. Anoop Kumar Jain,General Secretary (Scientific Activities), ISCA, 251 Anandpuri, Kanpur-208023

All India Institute of Medical Sciences, Bhopal:

Dr.S.Ramakrishna, General Secretary (Membership Affairs), Professor,Department of Zoology, Jnanabharathi Campus, Bangalore University, Bengaluru 560 056 Karnataka, Res: No 608, 10th Main, Coffee Board Layout, HebbalKempapura, Bangalore-560 024.

All India Institute of Medical Sciences, Rajkot

Dr.(Mrs.) Vijay Laxmi Saxena, General President (Elect), 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,7/182, Swarup Nagar, Kanpur - 208 002, U.P.

All India Institute of Medical Sciences, Kalyani:

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.

All India Institute of Medical Sciences, Bilaspur:

Prof.Gangadhar, Former General Secretary , ISCA, Syndicate Member(Ex), Bangalore University, Bangalore, Secretary, Society for Advancement of Biological Sciences, No 59,III Main, I Cross, Income Tax Layout, Vijaynagar, Bangalore-560 040

All India Institute of Medical Sciences, Guwahati:

Prof. K.S.Rangappa,General President (2019-2020),UGC–BSR Faculty Fellow,Chief Scientific Adviser, Sinotar Pharmaceuticals Co Ltd, China, Former Vice-Chancellor,University of Mysore and Karnataka State Open University, Mysore, Distinguished Professor, University of Mysore, Institution of Excellence, Vijnana Bhavan, Manasagangotri, Mysore -570 006, Karnataka

MEMBERSHIP

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

	105 th Session (2017-2018)	106 th Session (2018-2019)	107 th Session (2019-2020)
Life Member	35,280	37,750	40,137
Annual Member	12,573	8,562	8,919
Sessional Member	5,683	2,296	2,214
Student Member	4,924	3,085	1,211
Individual Donor	27	29	30
Institutional Donor	36	36	37
Institutional Member	12	11	14
Total	58,535	51,769	52,562

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.

* 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

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

Staff Welfare measures : No staff welfare matters was taken during the year under report.

Implementation of reservation policy :

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

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 107th Indian Science Congress by University of Agricultural Sciences, Bangalore. Sincere thanks are also due to the Dr. S. Rajendra Prasad, Vice-Chancellor, Dr. Y. G. Shadakshari, Local Secretary, 107th ISC, Dr. K. C. Narayanaswamy, Local Secretary, 107th ISC and their associates, for their untiring efforts to make the 107th 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 107th Session, it is a pleasure for the Committee to record its gratefulness to the General President, Prof.K.S. Rangappa for all his efforts to make the 107th 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 (2019-2020)



ISCA ALLAHABAD CHAPTER



ISCA AMRAVATI CHAPTER



ISCA BANGALORE CHAPTER



ISCA BARODA CHAPTER



ISCA BHUBANESWAR CHAPTER



ISCA CHENNAI CHAPTER

Nationwide Activities through ISCA Chapters (2019-2020)



ISCA COCHIN CHAPTER



ISCA COIMBATORE CHAPTER



ISCA DHARMANAGAR CHAPTER



ISCA HARIDWAR CHAPTER



ISCA JAIPUR CHAPTER



ISCA JAMMU CHAPTER

Nationwide Activities through ISCA Chapters (2019-2020)



ISCA KANPUR CHAPTER



ISCA KOLKATA CHAPTER



ISCA PATNA CHAPTER



ISCA PONDICHERRY CHAPTER



ISCA ROHTAK CHAPTER



ISCA SHIMLA CHAPTER

Nationwide Activities through ISCA Chapters (2019-2020)



ISCA TIRUPATI CHAPTER



DOCTORS DAY AT ISCA HDQRS



YOGA AT ISCA HDQRS



YOGA AT HARIDWAR CHAPTER



YOGA AT KANPUR CHAPTER



ISCA HINDI PROGRAMME AT CIFRI AT BARRACKPORE

TITLE OF ADDRESSES OF SECTIONAL PRESIDENT OF 107TH ISC SESSION

SI No	Section	President	Title
1	Agriculture and Forestry Science	Dr.Umakant Behera Meghalay	Integrated Agriculture and Rural Bio-Entrepreneurship: A Road Map For India
2	Animal, Veterinary and Fishery Sciences	Prof. Prakash Chandra Joshi Haridwar	Sustaining Rural Livelihood: An Entomological Perspective With Special Reference To Changing Climatic Conditions In High Altitude Areas
3	Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)	Prof (Dr.) Sureshbhai M. Makvana Gujarat	Diversity of Roles of Behavioral Sciences in the Progress (sustainable) of Rural Development
4	Chemical Sciences	Prof. Diwan S Rawat Delhi	Hybrid strategy: A versatile approach for design and development of antimalarial and nanocatalysis
5	Earth system Sciences	Prof R.B.Singh Delhi	Advancing Earth System Sciences Towards Climate And Disaster Resilience For Sustainable Rural Development
6	Engineering Sciences	Dr. Asit Kumar Das Gujarat	Key contributions of Engineering Science in Sustainable Development of India
7	Environmental Sciences	Dr. Ranbeer Singh Rawal Almora	Integrating Science & Technology In Rural Transformation -Case In Point Indian Himalayan Region
8	Information and Communication Science and Technology (including Computer Science)	Prof. Md.Nurul Hoda New Delhi	ICT For Inclusive Development

Sl No	Section	President	Title
9	Materials Science	Prof. S.Srikantaswamy Mysore	Synthesis, Characterization, Enhanced Photocatalytic Activity And Toxicity Studies Of Nanomaterial Composites
10	Mathematical Sciences (including Statistics)	Prof. S.K.Nimbhorkar Aurangabad	Extending Elements And Their Generalizations In Certain Modular Lattices
11	Medical Science (including Physiology)	Dr.Deep N Srivastava New Delhi	Role of Interventional Radiology treatments in Rural India
12	New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	Dr. Sudip Kumar Ghosh Kharagpur	New Insight Into <i>Entamoeba</i> Encystation
13	Physical Sciences	Prof.Santhosh Chidangil Manipal	Advances in Photonics Technologies for Healthcare
14	Plant Sciences	Prof (Mrs.) Y.Vimala Meerut	Realizing 'Ssr' Initiative For Conserving Environment Through Secondary Plantations On Marginal / Degraded Land Sites

PLATINUM JUBILEE LECTURES OF 107TH ISC SESSION

SI No	Section	President	Title
1	Agricultural and Forestry Science	Prof. Dillip Kumar Swain Kharagpur	Advanced Agricultural Production Technologies For Climate Risk Management: Ensemble Of Experiment And Decision Support System
2	Animal ,Veterinary and Fishery Sciences	Prof. Kamal Jaiswal Lucknow	Biomimetics: Inspiration From Nature For Human Welfare
3	Anthropological and Behavioural Sciences (Including Archeology, Psychology, Education and Military science)	Dr.Braj Bhushan Kanpur	Facial Expressions: From Morphology To Recognition In The Brain
4	Chemical Sciences	Prof. Kamal K Kapoor Jammu	Synthesis Of N/O-Containing Fused Heterocyclic Compounds Of Biological Significance
5	Earth System Sciences	Dr. Virendra M. Tiwari Hyderabad	Quantifying Hydrological Fluxes For Water Management And Decision
6	Engineering Sciences	Dr. Haripada Bhunia Patiala	Carbon Dioxide Capture And Utilization: An Intense Area For Research
7	Environmental Sciences	Dr. Hitendra Padalia Dehradun	New Generation Satellite Remote Sensing Techniques For Vegetation Science
8	Materials Science	Prof. Ashok M. Raichur Bangalore	Materials In Medicine: A Perspective On Nanomaterials For Improving Efficacy And Bioavailability Of Drugs
9	Mathematical Sciences (including Statistics)	Prof. Vinayak Vishnupant Joshi Pune	N Zero-Divisor Graphs Of Ordered Sets And Applications To Graphs Associated With Rings

SI No	Section	President	Title
10	Medical Sciences (including Physiology)	Dr.Santasabuj Das Kolkata	So much yet so little: Studies on an age-old human pathogen <i>Salmonella</i> Typhi
11	New Biology (Including Biochemistry, BioPhysics, Molecular Biology and Biotechnology)	Dr. Suman Kumar Dhar New Delhi	Human Malaria Parasite <i>Plasmodium Falciparum</i> : Unique Biology And Possible Interventions
13	Physical Sciences	Prof.Chandrabas Narayana Bangalore	Discovering New Topological Phases in Materials under Pressure using Raman Spectroscopy
14	Plant Sciences	Dr. Rajesh Arora, New Delhi	Innovative Herbal Technologies For Soldier & Society

**TITLES OF SYMPOSIA ON SPECIALIZED TOPICS ORGANISED BY THE SECTIONS
OF 107TH ISC SESSION**

Section	Topic
Agriculture and Forestry Sciences	<ol style="list-style-type: none"> 1. Integrated Agriculture and Rural Bio-Entrepreneurship. 2. Ecotourism and Biodiversity Management.
Animal, Veterinary and Fishery Sciences	<ol style="list-style-type: none"> 1. Animal Sciences: A boon for Rural Development. 2. Animal Sciences for food security, health and sustainable lively hood in rural India with special references to fisheries.
Anthropological and Behavioral Sciences (including Archaeology, Psychology, Education and Military Sciences)	<ol style="list-style-type: none"> 1. Role of Behavioural Science in (Sustainable) rural development. 2. Role of Behavioural Science in rural development in future.
Chemical Sciences	<ol style="list-style-type: none"> 1. Chemical Sciences in Human Health Care.
Earth System Sciences	<ol style="list-style-type: none"> 1. Geoscience Education, Sustainable Development and Future Earth. 2. Earth System Science for Resilience and Disaster Risk Reduction.
Engineering Sciences	<ol style="list-style-type: none"> 1. Sustainable Engineering Science & Technology for Rural Development. 2. Innovative Engineering Solutions in Energy, Water & Rural Infrastructure.
Environmental Sciences	<ol style="list-style-type: none"> 1. Balancing Environmental Conservation and Sustainable Development in India. 2. Promoting environmental consciousness in developing India.
Information and Communication Science & Technology (including Computer Sciences)	<ol style="list-style-type: none"> 1. ICT for Inclusive Development.
Mathematical Sciences (including Statistics)	<ol style="list-style-type: none"> 1. Recent trends in Discrete Mathematics
Medical Sciences (including Physiology)	<ol style="list-style-type: none"> 1. Contemporary research in medical and allied sciences for rural India. 2. Occupational health and safety in healthcare settings in rural India.

Section	Topic
New Biology (including Biochemistry, Biophysics & Molecular Biology and Biotechnology)	<ol style="list-style-type: none"> 1. Health care Technology: Bench to bedside and beyond. 2. Agricultural Biotechnology: Science for Lab to land.
Physical Sciences	<ol style="list-style-type: none"> 1. Photonics: An emerging physical science discipline for energy, environment and healthcare in rural setting. 2. Recent Advances in Physical Sciences.
Plant Sciences	<ol style="list-style-type: none"> 1. Secondary Plantations in Rural Development. 2. Environmental and Experimental Botany for Rural Development.

LIST OF YOUNG SCIENTIST AWARDEES FOR 2019-2020

SI No	Section	Name of Awardees	Title of the Paper
1	Agriculture and Forestry Sciences	Konsam Sarika, Plant Breeding Section, ICAR NEHR Manipur Center, Manipur.	Identification of Improved Breeding Lines with High Anthocyanin Content in Black Scented <i>Chahaorice</i> (<i>O.savita</i> L.)
2	Animal, Veterinary & Fishery Sciences	Shrstha Sinha, SDS in Neuroscience, Jiwaji University, Gwalior.	Maternal Nutritional Supplementation Attenuates the Protein Malnutrition Induced Reactive Gliosis and Cognitive Dysfunction in F1 Rats
3	Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)	Tarun Mishra, Dept. of Psychology, BHU, Varanasi.	Effect of Cue target onset asynchrony (CTOA) and time period on vigilance task performance
4	Chemical Sciences	No Award	
5	Earth System Sciences	Satabdi Misra, IIT, Dhanbad, Jharkhand.	Organo-geochemical and organo-petrographical aspect on hydrocarbon generation potential: a case study in Raniganj Basin, West Bengal, India
6	Engineering Sciences	Debabrata Mandal, IIT, Kharagpur.	Graphene quantum dots based luminescent nanosensor for metal ions, p-nitrophenol and sulphur detection in water samples
7	Environmental Sciences	No Award	
8	Information and Communication Science & Technology (including Computer Sciences)	No Award	
9	Materials Science	No Award	

SI No	Section	Name of Awardees	Title of the Paper
10	Mathematical Sciences (including Statistics)	No Award	
11	Medical Sciences (including Physiology)	No Award	
12	New Biology (including Biochemistry, Biophysics & Molecular Biology and Botechnology)	No Award	
13	Physical Sciences	Mallikarjun K.Patil, Karnatak University, Dharwad.	Size and Distance Dependent Surface Energy Transfer from Alexa Fluor 514 dyeto Gold Nanoparticles: A quest to explore sensor applications.
14	Plant Sciences	Rupali Ramakrishna Surase, B.A.M.University, Aurangabad.	A novel Application of Spectral Information for Automated Crop Type, Content, Health and Acreage Assessment.

LIST OF BEST POSTER AWARDEES FOR 2019-2020

Sl No	Section	Name of Awardees	Title of the Paper
1	Agriculture and Forestry Sciences	Gaurandra Gupta, Division of Social Sciences, ICAR-Indian Grassland and Fodder Research Institute, Jhansi Shaheen Praveen, College of Agriculture, Indira Gandhi Krishi Vishwavidyalaya, Raipur	1. Influence of bio-inoculants mediated nutrient management on productivity and economics of wheat in semi-arid agro-ecology. 2. Effect of glauconite nanoparticle on growth of maize (<i>Zea mays L.</i>) plant in an Alfisols of Southern India.
2	Animal, Veterinary & Fishery Sciences	Siddhartha Kumar Mishra, Dr. H.S. Gour Central University, Sagar J.C. Walter Devaa, Department of Molecular Biology, School of Biological Sciences, Madurai Kamaraj University, Madurai	1. Assessment of the Anti-Inflammatory and Anticancer Effects of Aqueous Extract of Chaga Mushroom in Intestinal Inflammation and Colorectal Carcinoma. 2. Genetic Diversity and Species Identification of the Nilgiris Trout population towards conservation.
3	Anthropological and Behavioural Sciences (including Archaeology, Psychology, Education and Military Sciences)	No Award	
4	Chemical Sciences	Ravinder Kumar, Department of Chemistry, Kurukshetra University, Kurukshetra, Twinkle Solanki, School of Chemical Sciences, Devi Ahilya University, Khandwa Road, Indore	1. Diacetoxy iodobenzene mediated prompt regioselective synthesis of [1,2,4]triazolo[4,3-a]pyrimidine as potent apoptosis inducer and anticancer agents. 2. Rapid MCR strategy to synthesize pyrrolo[1,2- <i>b</i>]pyrazole scaffolds assisted by solvent-free, recyclable HClO ₄ /SiO ₂ heterogeneous catalytic system.
5	Earth System Sciences	No Award	

SI No	Section	Name of Awardees	Title of the Paper
6	Engineering Sciences	<p>Ravi Prakash, Dairy Engineering Section, SRS, ICAR-National Dairy Research Institute, Bangalore</p> <p>Annie Stephy, St. Joseph's College (Autonomous), Devagiri, Kozhikode,</p>	<p>1. Cooling Simultaneous to Milking using Nano-particles Amplified Fluids: A Way Forward for Dairy Development in Rural India.</p> <p>2. Development, Characterization and Mechanical Properties of EVA Based Bio-composite.</p>
7	Environmental Sciences	<p>Shrabana Sarkar, Department of Botany University of Burdwan Golapbag, Burdwan</p> <p>Balwant Rawat, GB Pant National Institute of Himalayan Environment & Sustainable Development, Kosi-Katarmal, Almora</p>	<p>1. Textile effluent-origin thermotolerant bacteria in decolourization and degradation of azo dye.</p> <p>2. Long-term forest vegetation dynamics in Nanda Devi Biosphere Reserve, Indian west Himalaya – evidences from repeat studies on compositional patterns.</p>
8	Information and Communication Science & Technology (including Computer Sciences)	No Award	
9	Materials Science	No Award	
10	Mathematical Sciences (including Statistics)	<p>Suman Goyal, Indian Institute of Technology (ISM) Dhanbad</p> <p>Mriganka Shekhar Chaki, Indian Institute of Technology (ISM) Dhanbad</p>	<p>1. Velocity profile of Love Wave in piezomagnetic layer over elastic substrate with imperfect interface.</p> <p>2. Analytical study of shear wave propagation in a reduced Cosserat layered structure with abrupt thickening.</p>

SI No	Section	Name of Awardees	Title of the Paper
11	Medical Sciences (including Physiology)	Sumallya Karmakar, National Institute of Cholera & Enteric Diseases Kolkata Shabina Sheth, National Institute of Mental Health and Neuro Sciences, Bangalore	1. Prevalence Of Soil Transmitted Helminth Infections In West Bengal. 2. NIMHANS Digital Academy(NDA) Tele-ECHO (Extension of Community Healthcare Outcome): An innovative model for integrating Mental health and Addiction management in primary care for the state of Chhattisgarh
12	New Biology (including Biochemistry, Biophysics & Molecular Biology and Botechnology)	No Award	
13	Physical Sciences	No Award	
14	Plant Sciences	Sumayya SS, University College Thiruvananthapuram Kerala Bhramar Dutta, Department of Botany University of Burdwan Golapbag, Burdwan	1. Biochemical and molecular mechanism of anti-inflammatory, analgesic, antipyretic potentialities of purified terpenoid extract from the red algae <i>Hypnea musciformis</i> (Wulfen) JVLamouroux. 2. Isolation of halophilic bacteria from the largest delta of West Bengal and its impact on mitigating salt stress in plant growth.

**INFOSYS FOUNDATION –ISCA TRAVEL AWARD
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2.	Rithvik	Daffodils Foundation for Learning, Sanjaynagar, Bangalore-94
3.	Muktha S kumar	Kendriya Vidyalaya, BEML Nagar, Kolar Gold Fields, Kolar.
4.	Saubhagya Singh	Sheiling House School, Zoe Ville : 10/98, Allenganj Road, Kanpur
5.	Zainab Saman Maqsoodur Rahman	Fajandar H.S. & Jr.College, Vahoor, Raigad
6.	Zeenath	Riverian Public School, Brahamanwala, P.O. Majra, Dehradun.
7.	Anjali D	ZPHS, Kambalapally, Mahabubabad
8.	M.Chandana Jyothi	PVR Zilla Parishad High School, Gunduvari Palli (V & P), Anantapuramu.
9.	K Jaya Surya Yadav	PVR Zilla Parishad High School, Gunduvari Palli (V & P), Anantapuramu.
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* Superannuated on 29.02.2020

** Superannuated on 29.02.2020

*** Superannuated on 31.12.2019

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Session	Session Year	Place	Name	Title of the Presidential Address
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
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

Session	Session Year	Place	Name	Title of the Presidential Address
25 th	1938	Calcutta	Sir James H. Jeans (Lord Rutherford of Nelson died prematurely)	Researches in India and in Great Britain
26 th	1939	Lahore	Professor J.C. Ghosh	On Research in Chemistry in India
27 th	1940	Madras	Professor B. Sahni	The Deccan Traps : An Episode of the Tertiary Era
28 th	1941	Banaras	Sir Ardeshir Dalal	Science and Industry
29 th	1942	Baroda	Dr. D.N. Wadia	The Making of India
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
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

Session	Session Year	Place	Name	Title of the Presidential Address
51 st	1964	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
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
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

Session	Session Year	Place	Name	Title of the Presidential Address
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
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

Session	Session Year	Place	Name	Title of the Presidential Address
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
107 th	2020	Bangalore	Prof .K.S.Rangappa	Science and Technology: Rural Development

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

Year	Name	Year	Name
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
2019-2022	Dr.S.Ramakrishna		
2019-2022	Dr.Anoop Kr Jain		

**TRESURERS OF
THE INDIAN SCIENCE CONGRESS ASSOCIATION**

Year	Name	Year	Name
1913-14	Dr.R.D.Hooper	1965-68	Prof. (Mrs) Asima Chatterjee
1914-16	Dr.J.L.Simonsen	1968-71	Dr.S.M.Sircar
1916-19	Mr.R.D.Mehta	1971-74	Prof A.K.Saha
1919-20	Mr.D.R.Bhandarkar	1974-76	Prof A.K.Sharma
1920-21	Mr.W.W.K.Page	1976-77	Prof. A.K.Saha
1920-21	Mr.Oswald Martin	1977-80	Prof D.N.Kundu
1921-22	Mr.A.H.Harley	1980-82	Prof (Mrs) A.Sharma
1922-23	Mr.W.R.C.Brierley	1982-85	Prof.D.K.Sinha
1923-24	Dr.C.V.Raman	1985-86	Prof Asok Ghosh
1924-25	Dr.Baini Prashad	1986-88	Dr.S.C.Pakrashi
1925-26	Dr.S.L.Hora Dr. Baini Prashad	1988-89	Prof.D.K.Sinha
1930-31	Mr.K.C.Mahindra	1989-91	Dr.D.P.Chakraborty
1931-32	Mr.Jas Insch	1991-92	Dr.D.Basu
1932-34	Mr.K.C.Mahindra	1992-94	Prof. S.P.Mukherjee
1934-37	Dr.S.L.Hora	1994-95	Dr.D.Basu
1937-38	Rai Bahadur Dr.S.L.Hora	1995-98	Dr.S.B.Mahato
1938-39	Mr.Percy Brown	1998-2000	Prof.A.B.Banerjee
1939-44	Prof .J.N.Mukherjee	2000-2001	Prof.S.P.Mukherjee
1944-49	Prof. P.Ray	2001-2003	Prof.B.P.Chatterjee
1949-52	Prof..K.N.Bagchi	2003-2004	Prof.A.B.Banerjee
1952-55	Prof.P.C.Mahalanabis	2004-2006	Prof.Avijit Banerjee
1955-58	Dr.B.K.Sarkar	2006-2007	Prof.A.B.Banerjee
1958-60	Prof. B.C.Guha	2009-2010	Prof.B.P.Chaterjee
1960-65	Prof. P.K.Bose	2010-2013	Er.N.B.Basu
		2013-2016	Prof. Dhyendra Kumar
		2016-2019	Prof .Ranjit Kumar Verma
		2019-2022	Dr. Sheo Satya Prakash



THE INDIAN SCIENCE CONGRESS ASSOCIATION

AUDIT REPORT AND ACCOUNTS

31st March 2020



A.V.S.S. & Associates

Chartered Accountants

Branch Office: Poddar Court, 18 Rabindra Sarani, Gate no 1, 5th floor, Room-542, Kolkata:700001

Head Office: Cornkaul, Central Park near City Nursing Home, City Centre, Durgapur West Bengal-713216

Branches: Kolkata, Mumbai, Bihar.

Contact: Dial: +91 8420868317, Fax: +9134-32545664, 033-40719053

Email: rohitashguptadgp@gmail.com

GSTN: 19AAWFA8053B1Z8

Independent Auditor Report

To the members of Indian Science Congress Association Report on the Financial Statements

Opinion:

We have audited the Standalone Financial Statements of M/s Indian Science Congress Association which comprise the Balance Sheet as at 31st March 2020, Endowment Fund thereof as on that date, Income and Expenditure Account of Grants (Plan & Non-Plan) and also Receipts and Payments Account for the year ended on that date annexed thereto and summary of the significant accounting policies and other explanatory information.

In our opinion and to the best of our information and according to the explanations given to us, Except for the qualified opinion given under basis of qualification, the aforesaid standalone financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the manner so required in conformity with the accounting principles generally accepted in India, of the state of affairs of the organization as at 31st March 2020.

Basis for Opinion:

We conduct our audit in accordance with the Standard of Auditing issued by Institute of Chartered Accountant of India. We are independent of the organization in accordance with the code of Ethics issued by the Institute of Chartered Accountants of India together with the ethical requirements that are relevant to our audit of the Financial Statements, and we have fulfilled our other ethical responsibilities in accordance with these requirements and Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our 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. 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. F.Y.- 2019-20 Rs. 9,25,883.00 (this include TDS on FD of Endowment fund)

- b. F.Y.- 2018-19 Rs 8,65,769.00 (including TDS on FD of Endowment Fund- Rs- 1,16,075.00)
- c. F.Y.-2017-18 Rs. 9,51,651.00
- d. F.Y.-2016-17 Rs. 10,11,501.00

These have not been accounted for resulting in understatement of fund and investment value by Rs.9,25,883.00 (refer to note no 18(6) to the Notes to Accounts) for current year and Rs. 8,65,769.00 for 2018-19.

Further non accounting of Income Tax deducted at source Rs. 9,25,883.00 will amount to loss to the Association, since this is not shown as advance income tax in the books of accounts.

3. 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. (Refer to Note – 18(7))
4. Amount sent to 25 chapters during 2019-20 Rs. 1,06,50,000.00. Out of these Chapters, 15 Chapters have sent the Utilization certificate. They have expended Rs 58,81,824.90 for various purposes were charged off without any relation to the nature of expenses and the actual expenses incurred. During the year 2018-19, 8 chapters didn't submit the utilization certificates amounting to Rs. 41,15,000.00. This year 4 chapters out of those 8 chapters have submitted utilization certificates amounting to Rs. 23,43,600.00. (Refer to note 18 (10))
5. 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.
6. Building Fund which was created long back is being carried forward without any action or transaction.
7. 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(8))
8. 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
9. Inventories of Rs. 47,485.52 has been written off during the year. Further M/s Sevan Mudran have been shown as receivable of Rs 69,639.87 as the same is claimed by association as stock lying with them from long time.

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. 3,11,94,608.74 in

Endowment Fund as on 31/03/2020, Rs. 1,77,54,955.00 is kept in Term Deposit and balance Rs. 1,34,39,653.74 is in savings account. The expenditure (award) in the financial year 2019-20 is 2,60,271.80 and in 2018-19 is Rs. 5,89,753.75. The reasons for keeping such huge balance in savings account could not be explained.

Our opinion has been modified in these matters.

Key Audit Matters:

Impact of the COVID-19 pandemic on Physical Assets verification:

Due to Covid-19 situation, the person selected by executive committee for the physical verification of assets could not conduct the physical verification of the assets by the time audit was conducted. Hence the same should be considered while reading the audit report.

The Order and data for the year 2019-20 for preparation of actuarial report on Retirement benefit is given to the appointed Actuarial firm - Willis Towers Watson – and the same is under preparation. Hence the same should be considered while reading the audit report.

Management Responsibility for the Standalone 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.

In preparing the financial statements, Management is responsible for assessing the organization's ability to continue as a going concern, disclosing as applicable matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the association or to cease operations, or has no realistic alternative but to do so.

The Management are also responsible for observing the association's financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statements:

Our objectives are to obtain reasonable assurance about the financial statements as whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not a guarantee that an audit conducted in accordance with SAs will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material ,if, individually or in the aggregate , they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

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 11 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: 01/12/2020

UDIN: 20306958AAAABF4953

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) 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) F.Y.- 2019-20 Rs. 9,25,883.00
(this include TDS on FD of Endowment fund)

b) F.Y.- 2018-19 Rs 8,65,769.00
(including TDS on FD of Endowment Fund- Rs- 1,16,075.00)

c) F.Y.-2017-18 Rs. 9,51,651.00

d) F.Y.-2016-17 Rs. 10,11,501.00

These have not been accounted for resulting in understatement of fund and investment value by Rs.9,25,883.00 (refer to note no 18(6) to the Notes to Accounts) for current year and Rs. 8,65,769.00 for 2018-19. Further non accounting of Income Tax deducted at source Rs. 9,25,883.00 will amount to loss to the Association, since this is not shown as advance income tax in the books of accounts.

3) 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. (Refer to Note – 18(7))

Reply

For last few years, ISCA has started accounting Capital grant as per AS-12.

However, Reconciliation is still under process for difference between total assets account and non recurring fund grant.

Form 16 issued by bank towards TDS on interest does not clearly reflect from which interest TDS is deducted. Moreover some TDS details are missing from certificate in all 4 quarters therefore proper accounting of Term Deposit interest could not be made even after repeated discussion with Bank.

Since year 2019 onwards that Tax Audit and Income Tax filing to be completed every year so that the Association can get the refund of TDS.

The Income Tax appeal which was filed for the respective year is yet not fixed for hearing therefore the matter is pending.

Basis of Qualification

Reply

- 4) Amount sent to 25 chapters during 2019-20 Rs. 1,06,50,000.00. Out of these Chapters, 15 Chapters have sent the Utilization certificate. They have expended Rs 58,81,824.90 for various purposes were charged off without any relation to the nature of expenses and the actual expenses incurred. During the year 2018-19 8 chapters didn't submit the utilization certificates amounting to Rs. 41,15,000.00. This year 4 chapters out of those 8 chapters have submitted utilization certificates amounting to Rs. 23,43,600.00. (Refer to note 18 (10))
- 5) 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.
- 6) Building Fund which was created long back is being carried forward without any action or transaction.
- 7) 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(8))
- 8) 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 | | |

Email has been sent to Chapters in year 2018-19 and 2019-20 regarding sending of Utilization Certificates and Audited accounts. Out of 25 chapters for year 2018-19 only 4 chapters did not provide the Utilization Certificate till date amounting to Rs.901400. Out of 25 chapters for year 2019-20 only 10 chapters did not provide the Utilization Certificate till date amounting to Rs.4708175. They could not submit in time due to pandemic situation and requested for extension.

The difference in Pension 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.

letter also sent to Secretary, DST for advice on 12.12.2019.

Since no claim has been made from any individual or entity, Income tax to be paid out of Membership Application Money of Rs.19,67,350 and balance amount to be treated as Income for year 2020-21.

The balance lying with Public Information Centre will be adjusted in year 2020-21.

Reminder has been sent to Ramakrishna Mission Institute.

Basis of Qualification

9) Inventories of Rs. 47,485.52 has been written off during the year. Further M/s Sevan Mudran have been shown as receivable of Rs 69,639.87 as the same is claimed by association as stock lying with them from long time.

Reply

This amount has been adjusted with their bill due for payment.

ENDOWMENT FUND

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

The actual interest earned on Fixed deposit is credited on monthly basis on all the funds. Therefore, question of accounting on accrual basis does not arise.

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. 3,11,94,608.74 in Endowment Fund as on 31/03/2020, Rs. 1,77,54,955.00 is kept in Term Deposit and balance Rs. 1,34,39,653.74 is in savings account. The expenditure (award) in the financial year 2019-20 is 2,60,271.80 and in 2018-19 is Rs. 5,89,753.75. The reasons for keeping such huge balance in savings account could not be explained

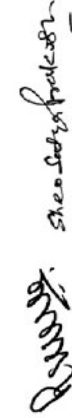
Transferring the balance of Savings Account of all Endowment Accounts into fixed deposits is under process.

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
				Screening and Evaluation of Paper	-	85,000.00	85,000.00
				Legal Expenses	-	294,073.00	294,073.00
				Young Scientists Awards	-	175,000.00	175,000.00
				Young Scientists Travelling Expenses	-	193,330.00	193,330.00
				Young Scientists Contingency	-	14,500.00	14,500.00
				Sitting Fee	-	1,100,000.00	1,100,000.00
				Sessional Expenses	-	3,200.00	3,200.00
				Operation & Maintenance of A.C Plant	100,300.00	-	100,300.00
				Transfer to Life Membership Subscription Fund	-	-	-
				Outstanding Liabilities	42,267.00	2,191,694.00	2,233,961.00
				Ashutosh Mookherjee Fellowship	-	-	-
				Capital Work in Progress	15,000,000.00	-	15,000,000.00
				Retention Money	-	39,662.00	39,662.00
				Equipment	-	317,080.00	317,080.00
				Young Scientist Advertisement	-	18,900.00	18,900.00
				Bank Charges	3,204.12	-	3,204.12
				Closing Cash & Bank Balances :	-	-	-
				Cash- in- hand	-	-	2,000.00
				Cash at Bank : State Bank of India	-	-	3,887,744.02
				: Central Bank of India	-	-	13,356,049.17
				: State Bank of India -Savings Account	-	-	3,005.00
				: Central Bank of India- Savings Account	-	-	2,500.00
	5,331,259.00	82,371,989.00	99,864,013.94		43,666,512.75	31,844,203.00	99,864,013.94

For AV S S & Associates

Chartered Accountants

FRN 327456E



Dr. S. Ramakrishna

General Secretary (Membership
Affairs)

Dr. Sheo Satya
Prakash

Treasurer

ACA Avijit Singh

Partner


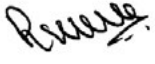

Place: Kolkata

Date : 01/12/2020

MNO: 306958

THE INDIAN SCIENCE CONGRESS ASSOCIATION

14, Dr Biresh Guha Street, Kolkata 700 017

Balance Sheet as at March 31st ,2020				
(Amount in Rs.)				
	Particulars	Note	As at March 31, 2020	As at March 31, 2019
I	LIABILITIES			
1	FUND			
(a)	Reserves and surplus- Fund	1	137,303,979.35	123,838,297.79
	- Non Recurring Fund Grant	1a	23,785,407.67	23,785,407.67
	- Capital Grant	1b	19,553,000.00	1,167,000.00
2	Non - current liabilities:			
(a)	Long - term provisions	2	37,475,924.45	48,523,840.35
3	Current liabilities			
(a)	Other current liabilities	3	4,419,117.60	4,679,250.25
	Total		222,537,429.07	201,993,796.06
II	ASSETS			
1	Non - current assets:			
(a)	Fixed assets			
(i)	Tangible assets	4	25,451,215.66	26,633,789.59
(ia)	Capital work-in-progress - Tangible	4	15,052,492.75	52,493.00
(ii)	Intangible assets	4	-	-
(iia)	Capital work-in-progress - Intangible	4	-	-
(b)	Non - current investments	5	160,416,509.69	161,678,470.70
(c)	Long-term loans and advances	6	1,783,154.00	3,048,303.00
(d)	Other non-current assets	7	387,914.51	387,914.51
2	Current assets:			
(a)	Inventories	8	-	47,485.32
(b)	Cash and cash equivalents	9	17,253,933.59	7,991,131.94
(c)	Short-term loans and advances	10	-	32,400.00
(d)	Other current assets	11	2,192,208.87	2,121,808.00
	Total		222,537,429.07	201,993,796.06
	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				
For A.V. S.S & Associates Chartered Accountants FRN 327456E ACA Avijit Singl  Partner MNO:306958 Place: Kolkata Date: 01/12/2020		 Dr. S. Ramakrishna General Secretary (Membership Affairs)	 Dr. Sheo Satya Prakash Treasurer	

THE INDIAN SCIENCE CONGRESS ASSOCIATION

14, Dr Biresh Guha Street, Kolkata 700017

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31ST MARCH 2020

Sr. No	Particulars	NOTE	2019-2020 Rs	2018-2019 Rs
A.	INCOME			
1	Grant From Government	12	6,39,27,000.00	4,48,06,000.00
	Less: Trf to Asutosh Mookerjee Fund		46,00,000.00	-
	Less: Trf to Plan Construction to Building Fund		-	-
	Less: Trf to Non Recurring Fund Grant		-	-
			5,93,27,000.00	4,48,06,000.00
2	Income From Other Activities	13	43,75,551.26	50,14,468.34
			6,37,02,551.26	4,98,20,468.34
B.	EXPENDITURE			
3	Expenses on Scientific Activities & Awards	14	1,70,34,693.00	1,67,23,584.00
4	Other Expenses	15	1,72,59,983.04	1,94,84,369.24
5	Employees' Benefit Expenses	16	2,59,76,153.63	2,71,45,023.00
6	Depreciation	4	15,42,091.32	16,38,041.31
			6,18,12,920.99	6,49,91,017.55
	Excess of Income Over Expenditure		18,89,630.27	(1,51,70,549.21)
	Add : Surplus/(Deficit)Carried over from Last Year		(1,07,28,129.50)	44,42,419.71
			(88,38,499.23)	(1,07,28,129.50)
	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

Place: Kolkata

Date : 01/12/2020




Dr. S. Ramakrishna
General Secretary
(Membership Affairs)



Dr. Sheo Satya Prakash
Treasurer

Notes to Financial Statement

For the year ended 31st March 2020

NOTE 1

Fund

	“ Year Ended 31.03.2020 Amount “ Rs	“ Year Ended 31.03.2019 Amount “ Rs
Other Fund		
General Fund		
Opening Balance	13,14,177.48	13,10,709.84
Addition during the Year	3,694.03	3,467.64
Payment made during the year	-	-
Net Balance at the end of the year	13,17,871.51	13,14,177.48
Reserve Fund		
Opening Balance	75,42,648.70	69,88,058.69
Addition during the Year	5,81,281.33	5,54,590.01
Net Balance at the end of the year	81,23,930.03	75,42,648.70
Public Information Officer Fund		
Opening Balance	4,100.00	3,940.00
Addition during the Year	178.60	160.00
Less Payments during the year	1,643.20	-
Net Balance at the end of the year	2,635.40	4,100.00
Sir Asutosh Mookerjee Fellowship Award Fund		
Opening Balance	16,96,043.00	29,68,318.00
Addition during the Year	-	58,232.00
Less Payments during the year	-	27,60,000.00
Net Balance at the end of the year	16,96,043.00	2,66,550.00
Total	1,11,40,479.94	91,27,476.18
Asset Fund		
Building Fund		
Opening Balance	11,67,641.47	10,79,989.18
Addition during the Year	-	51,488.47
Net Balance at the end of the year	11,67,641.47	11,31,477.65
House Building Advance Fund		
Opening Balance	11,68,870.78	10,53,697.46
Addition during the Year	-	59,585.10
Net Balance at the end of the year	11,68,870.78	11,13,282.56

ISCA Development Fund

Opening Balance	1,28,97,879.38	1,22,62,832.49
Addition during the Year	6,20,042.79	6,35,046.89
Net Balance at the end of the year	<u>1,35,17,922.17</u>	<u>1,28,97,879.38</u>

Plan Construction of Building Fund

Opening Balance	1,75,07,545.32	1,75,07,545.32
Addition during the Year	-	-
Net Balance at the end of the year	<u>1,75,07,545.32</u>	<u>1,75,07,545.32</u>
Total	<u>3,33,61,979.74</u>	<u>3,26,50,184.91</u>

Life Membership Subscription Fund

Opening Balance	9,27,88,766.20	8,41,18,655.51
Addition during the Year	1,00,83,135.15	97,86,128.39
	<u>10,28,71,901.35</u>	<u>9,39,04,783.90</u>
Less: Payment during the year	12,31,882.45	11,16,017.70
Net Balance at the end of the year	<u>10,16,40,018.90</u>	<u>9,27,88,766.20</u>
Total	<u>10,16,40,018.90</u>	<u>9,27,88,766.20</u>

Credit Balance in Income Expenditure Account

	Rs	Rs
Opening Balance	(1,07,28,129.50)	44,42,419.71
Addition during the Year	18,89,630.27	(1,51,70,549.21)
Net Balance at the end of the year	<u>(88,38,499.23)</u>	<u>(1,07,28,129.50)</u>
Total	<u>13,73,03,979.35</u>	<u>12,38,38,297.79</u>

NOTE 1a

Non Recurring Fund Grant

Opening Balance	2,37,85,407.67	2,37,85,407.67
Addition during the Year		-
Net Balance at the end of the year	<u>2,37,85,407.67</u>	<u>2,37,85,407.67</u>

NOTE 1b

Capital Grant

-Other	45,53,000.00	11,67,000.00
-Building 2019-2020	1,50,00,000.00	
	<u>1,95,53,000.00</u>	<u>11,67,000.00</u>

NOTE 2

Non - Current Liabilities**Long Term Provision****Gratuity Fund**

Opening Balance	1,77,15,323.11	1,75,17,054.83
Addition during the Year	8,07,994.31	8,37,033.28
	<u>1,85,23,317.42</u>	<u>1,83,54,088.11</u>
Less Payments during the year	43,68,859.00	6,38,765.00
Net Balance at the end of the year	<u>1,41,54,458.42</u>	<u>1,77,15,323.11</u>

Pension Fund

Opening Balance	1,76,17,640.15	1,69,27,099.21
Addition during the Year (Interest)	8,93,044.19	8,58,324.94
Addition during the Year (other transfer)	63,87,261.00	46,60,888.00
	2,48,97,945.34	2,24,46,312.15
Less: Payments during the year	1,19,84,065.00	48,28,672.00
Net Balance at the end of the year	1,29,13,880.34	1,76,17,640.15

Leave Encashment Fund

Opening Balance	1,31,90,877.09	1,29,19,068.41
Addition during the Year	6,18,004.60	6,38,936.68
	1,38,08,881.69	1,35,58,005.09
Less: Payments during the year	34,01,296.00	3,67,128.00
Net Balance at the end of the year	1,04,07,585.69	1,31,90,877.09

Total	3,74,75,924.45	4,85,23,840.35
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NOTE 3

Current liabilities**Outstanding Liabilities**

Non Plan	2,13,892.00	42,639.00
Plan	18,24,273.60	22,73,619.25
	20,38,165.60	23,16,258.25

Deposits

As per Last Account	3,38,204.00	4,40,240.00
Add: Addition	-	2,00,790.00
	3,38,204.00	6,41,030.00
Less: payment	32,372.00	3,02,826.00
	3,05,832.00	3,38,204.00

Plan Retention Money

Opening	1,07,770.00	3,06,682.00
Addition during the year	-	47,556.00
	1,07,770.00	3,54,238.00
Less payment during the year	-	2,97,501.00
Net Balance at the end of the year	1,07,770.00	56,737.00

Advance

Membership Subscription	-	701.00
Membership Application Money	19,67,350.00	19,67,350.00
	19,67,350.00	19,68,051.00
Total	44,19,117.60	46,79,250.25

The Indian Science Congress Association

NOTE -4 Fixed Assets Schedule for 2019-2020

Particulars	Rate	Original Cost as on 01-04-19		Addition		Sale/Adjustment		Total Cost as on 31-03-20		Depreciation upto 31-03-19		Depreciation for the year		Adjustment of Depr.		Total Depreciation as on 31-03-20		Net Block as on 31-03-20		Net Block as on 31-03-19		Depreciation up to 31-03-10 not considered					
		Rs		Rs		Rs		Rs		Rs		Rs		Rs		Rs		Rs		Rs		Rs		Rs			
1) AGAINST BUILDING FUND																											
Main Building	10	432,682.25		-	-	-	432,682.25		95,056.02	14,547.34																	
Annexe Building	10	64,191.61		-	-	-	64,191.61		12,376.19	421.83																	
TOTAL		496,873.86		-	-	-	496,873.86		107,432.21	14,969.17																	
2) AGAINST PLAN GRANT FOR REFURBISHING OFFICE																											
i) Construction of Additional Building with Refurbishing																											
	10	8,935,512.82		-	-	-	8,935,512.82		2,013,901.16	579,848.14																	
ii) Tubewell																											
	10	467,573.12		-	-	-	467,573.12		33,568.19	1,144.04																	
iii) Air Conditioning of Lecture Hall																											
	10	3,744,567.74		-	-	-	3,744,567.74		425,441.51	60,862.97																	
TOTAL		13,147,653.68		-	-	-	13,147,653.68		2,472,910.86	641,855.15																	
3) AGAINST NON-PLAN GRANT NON-RECURRING FUND GRANT																											
i) Fax Machine																											
	10	51,979.20		-	-	-	51,979.20		1,391.73	47.38																	
ii) EPABX Machine																											
	10	172,920.00		-	-	-	172,920.00		50,557.03	2,862.88																	
TOTAL		224,899.20		-	-	-	224,899.20		51,948.76	2,910.26																	
4) AGAINST GARAGE BUILDING FUND GRANT																											
Garage Building																											
	10	10,701.95		-	-	-	10,701.95		2,459.21	83.80																	
TOTAL		10,701.95		-	-	-	10,701.95		2,459.21	83.80																	
5) AGAINST NON-PLAN GRANT FOR TYPEWRITER																											
i) Typewriter																											
	10	9,088.79		-	-	-	9,088.79		18.16	0.64																	
TOTAL		9,088.79		-	-	-	9,088.79		18.16	0.64																	

Particulars	Rate	Original Cost as on 01-04-19	Addition	Sale/ Adjustment	Total Cost as on 31-03-20	Depreciation upto 31-03-19	Depreciation for the year	Adjustment of Depr.	Total Depreciation as on 31-03-20	Net Block as on 31-03-20	Net Block as on 31-03-19	Depreciation up to 31-03-10 not considered
6) AGAINST PLAN NON-RECURRING FUND GRANT												
i) Typewriter	10	48,417.49	-	-	48,417.49	4,011.22	136.68	-	4,147.90	44,269.59	44,406.26	43,039.44
ii) Furniture												
General	10	1,145,142.81	-	-	1,145,142.81	429,826.68	33,794.96	-	463,621.64	681,521.17	715,316.13	377,366.51
Lecture Hall	10	90,726.00	-	-	90,726.00	52,226.13	2,719.35	-	54,945.48	35,780.52	38,499.87	11,306.40
Guest House	10	906,584.00	-	-	906,584.00	523,356.17	33,785.90	-	557,142.07	349,441.93	383,227.83	45,368.79
AirConditioning of Main Building	10	1,181,906.49	-	-	1,181,906.49	494,970.44	25,337.67	-	520,308.11	661,598.38	686,936.05	433,559.37
iii) AirConditioning of Annex Building	10	436,044.00	-	-	436,044.00	113,487.04	25,441.87	-	138,928.91	298,843.09	324,284.96	69,866.25
iv) Duplicating Machine	10	17,748.90	-	-	17,748.90	954.29	32.50	-	986.79	16,762.11	16,794.61	16,469.58
v) Fixture	10	35,755.75	-	-	35,755.75	2,856.59	97.37	-	2,953.96	32,801.79	32,899.16	31,925.46
vi) Electronic Typewriter	10	31,642.97	-	-	31,642.97	1,694.91	57.75	-	1,752.66	29,890.31	29,948.04	29,370.49
vii) Xerox Machine	10	80,529.61	-	-	80,529.61	50,514.93	3,001.47	-	53,516.40	27,013.21	30,014.68	-
viii) Computer	60	998,698.99	11,151.00	-	1,009,849.99	496,412.02	35,886.21	-	532,298.23	477,551.76	502,286.97	442,547.90
ix) Projectors	10	52,600.00	-	-	52,600.00	23,471.00	2,912.90	-	26,383.90	26,216.09	29,128.99	101,335.90
x) Construction of Boundary Wall	10	101,656.95	-	-	101,656.95	12,053.96	410.84	-	12,464.80	89,192.15	89,602.99	85,494.63
xi) Digitization of ISCA Old Proceedings	60	168,786.10	-	-	168,786.10	60,525.24	0.24	-	60,525.48	108,260.63	108,260.87	108,260.46
xii) Modernisation of ISCA Exhib Board	10	317,425.00	-	-	317,425.00	133,438.17	11,662.30	-	145,100.47	172,324.53	183,986.83	67,363.86
xiii) PA Systems	10	84,725.00	-	-	84,725.00	34,154.21	1,164.08	-	35,318.29	49,406.71	50,570.79	38,930.03
xiv) Email	60	13,500.00	-	-	13,500.00	13,499.00	-	-	13,499.00	1.00	1.00	-
xy) Office Car	15	711,986.00	8,700.00	-	720,686.00	180,084.40	40,913.02	-	220,997.42	499,688.57	531,901.59	264,344.30
xvi) Web Site	60	65,900.00	-	-	65,900.00	43,006.30	8.07	-	43,014.37	22,885.63	22,893.70	22,880.26
xvii) Laptop	60	357,860.00	-	-	357,860.00	352,619.12	3,144.53	-	355,763.65	2,096.35	5,240.88	-
xviii) Software	60	598,247.00	-	-	598,247.00	598,246.00	-	-	598,246.00	1.00	1.00	-
TOTAL		7,445,883.06	19,851.00	-	7,465,734.06	3,621,407.81	220,507.71	-	3,841,915.53	3,625,546.52	3,826,203.22	2,189,429.63
7) AGAINST NON-RECURRING GRANT FROM NATIONAL ACADEMY OF AGRICULTURAL SCIENCE												
Computer with Printer	60	286,825.00	-	-	286,825.00	13,262.74	0.05	-	13,262.79	273,562.21	273,562.26	273,562.17
Installation of Lan	60	50,500.00	-	-	50,500.00	2,356.11	0.01	-	2,356.12	48,143.88	48,143.89	48,143.87
Furniture	10	52,190.00	-	-	52,190.00	20,501.55	698.70	-	21,200.25	30,989.75	31,688.45	24,701.39
TOTAL		389,515.00	-	-	389,515.00	36,120.41	698.77	-	36,819.16	352,695.84	353,394.59	346,407.43
PLAN SUBSCRIPTION OF JOURNAL												
TOTAL		4,779,304.46	-	-	4,779,304.46	854,108.62	134.07	-	854,242.69	3,925,061.77	3,925,195.84	3,924,972.39
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	39,342.37	1,340.85	-	40,683.22	12,067.68	13,408.53	-
Electro Copier Machine	10	22,080.00	-	-	22,080.00	16,467.39	561.26	-	17,028.65	5,051.35	5,612.61	-
TOTAL		92,179.50	-	-	92,179.50	73,158.36	1,902.11	-	75,060.47	17,119.03	19,021.14	-

Particulars	Rate	Original Cost as on 01-04-19	Addition	Sale/ Adjustment	Total Cost as on 31-03-20	Depreciation upto 31-03-19	Depreciation for the year	Adjustment of Depr.	Total Depreciation as on 31-03-20	Net Block as on 31-03-20	Net Block as on 31-03-19	Depreciation up to 31-03-10 not considered
9) NON EARMARKED FIXED ASSETS												
Furniture & Fixtures												
General	10	8,407.84	-	-	8,407.84	533.96	18.18	-	552.14	7,855.70	7,873.88	7,692.11
Library	10	8,153.95	-	-	8,153.95	6,081.39	207.26	-	6,288.65	1,865.30	2,072.56	-
Lecture Hall	10	41,454.45	-	-	41,454.45	30,917.21	1,053.72	-	31,970.93	9,483.52	10,537.24	-
Office & Record Room	10	23,228.54	-	-	23,228.54	17,324.06	590.45	-	17,914.51	5,314.03	5,904.48	-
Guest House	10	7,847.20	-	-	7,847.20	5,852.76	199.44	-	6,052.20	1,794.99	1,994.44	-
Equipment	10	650,833.42	-	-	650,833.42	193,507.26	70,397.42	-	263,904.68	386,929.10	457,326.16	-
TOTAL		739,925.40	-	-	739,925.40	254,216.65	72,466.46	-	326,683.10	413,242.65	485,708.75	7,692.11
10) BUST OF ASHUTOSH MOOKERJEE	10	100,000.00	-	-	100,000.00	60,410.90	2,058.91	-	62,469.81	37,530.18	39,589.09	19,000.00
		100,000.00	-	-	100,000.00	60,410.90	2,058.91	-	62,469.81	37,530.18	39,589.09	19,000.00
11) PLAN EXPENDITURE FROM GRANT OF UPGRADATION OF OFFICE AUTOMATION												
i) Computer with Printer	10	340,162.00	-	-	340,162.00	152,720.15	486.90	-	153,207.05	186,954.95	187,441.85	182,572.80
ii) Furniture	10	37,110.00	-	-	37,110.00	22,948.93	782.16	-	23,731.09	13,378.91	14,161.07	6,339.45
iii) Generator	10	163,844.00	348,940.00	41,875.00	470,909.00	85,267.84	27,570.86	32,601.40	80,237.30	390,671.70	78,576.16	49,515.60
iv) Xerox Machine	10	105,000.00	-	-	105,000.00	36,190.54	6,884.10	-	43,074.64	61,928.24	68,812.34	132,829.52
v) Fax Machine	10	16,500.00	-	-	16,500.00	7,845.10	267.39	-	8,112.49	8,387.51	8,654.90	5,981.25
vi) Software package for Accounts and Membership	60	74,970.00	-	-	74,970.00	74,967.17	-	-	74,967.17	-	-	-
TOTAL		737,586.00	348,940.00	41,875.00	1,044,651.00	379,939.73	35,991.42	32,601.40	383,329.74	661,321.31	357,646.32	377,238.62
12) BUILDING												
Building Third Floor	10	7,921,163.13	-	-	7,921,163.13	4,585,243.57	333,591.96	-	4,918,835.53	3,002,327.59	3,335,919.55	-
Building/Lift	10	3,364,311.00	-	-	3,364,311.00	1,147,809.82	123,835.31	-	1,271,645.13	2,092,665.87	2,216,501.18	-
Building Marble Plaque	10	10,000.00	-	-	10,000.00	6,090.42	390.96	-	6,481.38	3,518.62	3,909.58	-
Fire safety work	10	906,946.25	-	-	906,946.25	90,694.63	90,694.63	-	181,389.26	725,557.00	816,251.63	-
TOTAL		12,202,420.38	-	-	12,202,420.38	5,829,838.43	548,512.85	-	6,378,351.29	5,824,069.08	6,372,581.94	-
GRAND TOTAL		40,376,031.28	368,791.00	41,875.00	40,702,947.28	13,743,970.10	1,542,091.33	32,601.40	15,253,460.01	25,451,215.66	26,633,789.18	11,642,723.58

NOTE 5

Non - Current Investments

	Rs	Rs
General Fund		
In Term Deposit	59,438.76	52,277.09
In Bank		3,467.64
	<u>59,438.76</u>	<u>55,744.73</u>
Reserve Fund		
In Term Deposit	77,16,599.56	71,96,165.23
In Bank	3,57,330.47	3,46,483.47
	<u>80,73,930.03</u>	<u>75,42,648.70</u>
Pension Fund		
In Term Deposit	1,02,31,249.34	1,39,70,897.15
In Bank	24,44,307.00	38,30,180.00
	<u>1,26,75,556.34</u>	<u>1,78,01,077.15</u>
Building Fund		
In Term Deposit	7,98,275.68	7,63,650.86
In Bank	46,209.93	44,670.93
	<u>8,44,485.61</u>	<u>8,08,321.79</u>
Life Membership Subscription Fund		
In Term Deposit	8,97,06,164.92	7,46,59,412.77
In Bank	81,12,053.98	1,56,27,353.43
	<u>9,78,18,218.90</u>	<u>9,02,86,766.20</u>
Gratuity Fund		
In Term Deposit	1,02,96,657.72	97,17,857.41
In Bank	38,57,800.70	79,97,465.70
	<u>1,41,54,458.42</u>	<u>1,77,15,323.11</u>
House Building Advance Fund		
In Term Deposit	8,23,772.69	7,78,964.47
In Bank	3,45,098.08	3,34,318.08
	<u>11,68,870.77</u>	<u>11,13,282.55</u>
ISCA Development Fund		
In Term Deposit	91,55,372.31	90,53,170.52
In Bank	43,62,549.86	38,44,708.86
	<u>1,35,17,922.17</u>	<u>1,28,97,879.38</u>
ISCA Leave Encashment Fund		
In Term Deposit	78,25,582.69	73,75,837.09
In Bank	25,82,003.00	58,15,040.00
	<u>1,04,07,585.69</u>	<u>1,31,90,877.09</u>
ISCA Asutosh Mookherjee Fund		
In Term Deposit	-	-
In Bank	16,96,043.00	2,66,550.00
	<u>16,96,043.00</u>	<u>2,66,550.00</u>
Total	<u>16,04,16,509.69</u>	<u>16,16,78,470.70</u>

	Rs	Rs
NOTE 6		
Long-Term loans and advances		
Advance - General	17,83,154.00	30,48,303.00
	<u>17,83,154.00</u>	<u>30,48,303.00</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	-	-
	<u>3,87,914.51</u>	<u>3,87,914.51</u>
NOTE 8		
Inventories		
Stock of Printing Paper	-	1,17,125.19
Less: Provision for Damaged Stock of Paper	-	(69,639.87)
	<u>-</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	38,87,744.02	24,29,496.28
-Central Bank of India	1,33,56,049.17	55,24,867.66
-State Bank of India A/c Executive Secretary	-	30,668.00
-Public Information Officer with Bank	2,635.40	4,100.00
-State Bank of India - Savings Account	3,005.00	-
-Central Bank of India - Savings Account	2,500.00	-
	<u>1,72,53,933.59</u>	<u>79,91,131.94</u>
NOTE 10		
Short-term loans and advances		
Festival Advance	-	32,400.00
	<u>-</u>	<u>32,400.00</u>
NOTE 11		
Other current assets		
Prepaid Expense	43,952.00	59,998.00
Prepaid Upgradation of Improv of Exis.Facilities	-	-
Prepaid Insurance	42,278.00	22,383.00
Assessed Tax -Income Tax Appeal	20,36,339.00	20,36,339.00
- CESC Ltd	-	3,088.00
Receivable from Seva Mudran	69,639.87	-
	<u>21,92,208.87</u>	<u>21,21,808.00</u>

INCOME

NOTE-12

2019-2020

2018-19

	2019-2020		2018-19	
	Plan	Non Plan	Plan	Non Plan
Grant from Government	Rs 6,39,27,000.00	Rs -	Rs 4,48,06,000.00	Rs -
	6,39,27,000.00	-	4,48,06,000.00	-
	6,39,27,000.00	6,39,27,000.00	4,48,06,000.00	4,48,06,000.00

NOTE-13

Income From Other Activities

	2019-2020		2018-2019	
	Plan	Non Plan	Plan	Non Plan
Membership Subscription Received	Rs 27,80,987.00	Rs -	Rs 28,54,361.00	Rs -
Less: Transfer to Reserve Fund	50,000.00	-	50,000.00	-
	27,30,987.00	-	28,04,361.00	-
Add: Admission Fee	3,10,200.00	-	2,34,200.00	-
Add: Transfer from Life Membership Subscription Fund	9,55,450.00	-	9,88,000.00	-
	39,96,637.00	-	40,26,561.00	-
Guest House Lodging Charges	-	Rs 28,600.00	-	Rs 34,100.00
Reimbursement of Service Charges of ISCA Lecture Hall (Net)	-	71,600.00	-	96,900.00
Postage	58,984.00	-	58,984.00	-
Misc Income	-	1,00,049.00	-	7,79,466.34
Sale of Publications	1,200.00	-	-	-
Plan Sale of Tender Papers	-	-	-	-
Journal Subscription (Non Members)	26,250.00	-	26,750.00	-
Damaged Stock of Paper	69,639.87	-	69,639.87	-
Profit on Sale of Fixed Assets	-	22,586.39	-	-
Interest on Savings Bank Account	-	5.00	-	-
Interest Income (Accrued)	-	-	-	-
General Fund	-	3,693.03	-	3,467.64
Building Fund	-	33,172.97	-	51,488.47
Gratuity Fund	-	8,07,994.31	-	8,37,033.28
House Building Advance Fund	-	49,340.39	-	59,585.10
ISCA Development Fund	-	6,20,051.79	-	6,35,046.89
Life Membership Subscription	-	53,05,885.15	-	48,46,128.39
Pension Fund	-	9,51,229.19	-	9,97,520.94
Reserve Fund	-	5,20,434.33	-	5,04,590.01
Public Information Officer Fund	-	168.60	-	160.00
Leave Encashment Fund	-	6,18,004.60	-	6,38,936.68
	1,56,073.87	1,31,29,451.75	77,441.00	1,35,10,984.74
Less: Transfer to Fund (Interest Accrued but not due)	-	89,09,974.36	-	85,73,957.40
	1,56,073.87	42,19,477.39	77,441.00	49,37,027.34
	1,56,073.87	43,75,551.26	77,441.00	50,14,468.34

EXPENDITURES

NOTE-14

EXPENSES ON SCIENTIFIC ACTIVITIES & AWARD	2019-2020			2018-19		
	Plan	Non Plan	Total	Plan	Non Plan	Total
	Rs	Rs	Rs	Rs	Rs	Rs
Sessional Expenses	3,200.00	-	3,200.00	9,478.00	-	9,478.00
Travelling Expenses	42,30,733.00	-	42,30,733.00	55,78,938.00	-	55,78,938.00
Sitting fee	11,10,000.00	-	11,10,000.00	11,60,100.00	-	11,60,100.00
ISCA Chapters	50,58,030.00	-	50,58,030.00	45,79,607.00	-	45,79,607.00
Seminars, Symposia, Discussion & Lectures	56,00,000.00	-	56,00,000.00	39,40,000.00	-	39,40,000.00
Honarium to ISCA Platinum Jubilee Lectures	1,30,000.00	-	1,30,000.00	1,20,000.00	-	1,20,000.00
Pt. Jawaharlal Nehru Birth Centenary Awards	-	-	-	-	-	-
Pt. Jawaharlal Nehru Prize	-	-	-	-	-	-
Poster Presentation Award	80,000.00	-	80,000.00	85,000.00	-	85,000.00
Cost of Gold Medals & Plaques	3,36,000.00	-	3,36,000.00	6,15,700.00	-	6,15,700.00
Membership Subscription	-	-	-	-	-	-
Binding Charges for Periodicals	-	-	-	-	-	-
101st Science Congress	-	-	-	-	-	-
Young Scientists:	-	-	-	-	-	-
Awards	1,75,000.00	-	1,75,000.00	3,50,000.00	-	3,50,000.00
Travelling Expenses	1,93,330.00	-	1,93,330.00	1,74,261.00	-	1,74,261.00
Publication	-	-	-	-	-	-
Stationery	-	-	-	-	-	-
Advertisement	18,900.00	-	18,900.00	15,000.00	-	15,000.00
Contingency	14,500.00	-	14,500.00	10,500.00	-	10,500.00
Expenses for Delegation to Meetings Abroad	-	-	-	-	-	-
Screening / evaluation of paper	85,000.00	-	85,000.00	85,000.00	-	85,000.00
Exhibition	-	-	-	-	-	-
	1,70,34,693.00	-	1,70,34,693.00	1,67,23,584.00	-	1,67,23,584.00

	2019-2020		2018-19		Total	
	Plan	Non Plan	Plan	Non Plan	Plan	Non Plan
	Rs	Rs	Rs	Rs	Rs	Rs
NOTE-15						
Other Expenses						
Telephone Expenses		1,02,733.00	1,02,733.00	-	2,09,576.10	2,09,576.10
Transport Expenses		43,909.00	43,909.00	-	95,718.00	95,718.00
Municipal Tax		889.00	889.00	-	889.00	889.00
Security Guard Expenses		17,76,133.00	17,76,133.00	-	16,31,030.00	16,31,030.00
Audit Fees		29,500.00	29,500.00	-	29,500.00	29,500.00
Cleaning & Building Maintenance		4,77,929.00	4,77,929.00	-	4,81,142.00	4,81,142.00
Postage & Stationery for Sectional President	49,000.00		49,000.00	1,58,687.00		1,58,687.00
Advertisement	1,04,407.00		1,04,407.00	1,75,813.00		1,75,813.00
Electricity Charges	5,57,924.00		5,57,924.00	6,43,599.00		6,43,599.00
Upgradation & Improvement of Existing Facilities	4,87,951.00		4,87,951.00	5,27,237.52		5,27,237.52
General Printing	18,33,469.00	-	18,33,469.00	14,98,336.30		14,98,336.30
Guest House Expenses		58,086.00	58,086.00		45,840.00	45,840.00
Insurance		16,873.00	16,873.00		39,317.00	39,317.00
Bank Charges		3,205.12	3,205.12		18,520.94	18,520.94
Operation and Maintenance of A.C.Plant		1,20,360.00	1,20,360.00		1,20,360.00	1,20,360.00
Profit and loss on sale of fixed assets		-	-		15,785.58	15,785.58
Soiled Printing paper	47,485.32		47,485.32		-	-
OTHER OPERATION EXPENSES						
Stationery Expenses	1,79,392.00		1,79,392.00	2,33,131.00		2,33,131.00
Postage	48,69,942.60		48,69,942.60	48,25,013.00		48,25,013.00
Contingencies	1,96,426.00		1,96,426.00	1,99,344.00		1,99,344.00
Repair & Renovation of Building	31,700.00	-	31,700.00	6,13,117.80		6,13,117.80
Legal Expenses	2,94,073.00		2,94,073.00	1,20,204.00		1,20,204.00
Contingency Expenses for Meeting with Official Language	27,846.00		27,846.00	53,445.00		53,445.00
PUBLICATION EXPENSES						
Sessional Publication	15,71,996.00		15,71,996.00	6,92,537.50		6,92,537.50
Publication of Proceedings	21,840.00		21,840.00	6,92,137.50		6,92,137.50
Publication of Journals	43,54,266.00		43,54,266.00	63,37,280.00		63,37,280.00
Cost of Printing Paper	2,648.00	-	2,648.00	26,808.00		26,808.00
Focal Theme Publication	-	-	-	-		-
		26,29,617.12	1,72,59,983.04	1,67,96,690.62	26,87,678.62	1,94,84,369.24
	1,46,30,365.92					

	2019-2020				2018-19				
	Plan		Non Plan		Plan		Non Plan		Total
	Rs		Rs		Rs		Rs		Rs
NOTE-16									
Employees' Benefit Expenses									
Establishment	6,03,974.00	1,82,99,991.63	1,89,03,965.63	5,29,194.00	2,10,88,242.00	2,16,17,436.00			
Ad-hoc Bonus	-	-	-	-	(5,757.00)	(5,757.00)			
Contribution to Staff New Pension Scheme	-	7,67,277.00	7,67,277.00	-	6,54,632.00	6,54,632.00			
Contribution to Staff Gratuity Fund	-	-	-	-	-	-			
Contribution to Staff Pension Fund	-	58,75,033.00	58,75,033.00	-	45,21,692.00	45,21,692.00			
Contribution to Leave Encashment	-	-	-	-	-	-			
Leave Travel Concession	-	4,29,878.00	4,29,878.00	-	1,69,167.00	1,69,167.00			
Staff Liveries	-	-	-	-	-	-			
Re-imbursment of Children Educational Allowance	-	-	-	-	1,87,853.00	1,87,853.00			
	6,03,974.00	2,53,72,179.63	2,59,76,153.63	5,29,194.00	2,66,15,829.00	2,71,45,023.00			

Schedule 1A

Reconciliation of Life Membership Subscription Fund with Investment and Bank

Life Membership Subscription Fund

		<u>Rs</u>																																													
Opening Balance as on 01-04-2019		92,788,766.20																																													
Add: Subscription received during the year 2019-2020	<u>Rs</u> 4,777,250.00																																														
Add: Interest Accrued during the year as detailed below																																															
	<table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">TDR NO</th> <th style="text-align: right; border-bottom: 1px solid black;">Rs</th> <th></th> </tr> </thead> <tbody> <tr><td>32399434877</td><td style="text-align: right;">308,855.24</td><td></td></tr> <tr><td>32654087378</td><td style="text-align: right;">107,819.59</td><td></td></tr> <tr><td>33171568280</td><td style="text-align: right;">506,575.30</td><td></td></tr> <tr><td>33062685839</td><td style="text-align: right;">588,320.75</td><td></td></tr> <tr><td>33251159345</td><td style="text-align: right;">465,411.06</td><td></td></tr> <tr><td>33529725604</td><td style="text-align: right;">171,183.14</td><td></td></tr> <tr><td>30275144311</td><td style="text-align: right;">153,511.07</td><td></td></tr> <tr><td>10959318622</td><td style="text-align: right;">476,678.27</td><td></td></tr> <tr><td>34169506239</td><td style="text-align: right;">251,787.04</td><td></td></tr> <tr><td>10959318633</td><td style="text-align: right;">216,309.35</td><td></td></tr> <tr><td>37580408810</td><td style="text-align: right;">824,596.82</td><td></td></tr> <tr><td>34803843458</td><td style="text-align: right;">436,033.28</td><td></td></tr> <tr><td>38515614449</td><td style="text-align: right;">269,835.62</td><td></td></tr> <tr><td>38515614971</td><td style="text-align: right;">269,835.62</td><td style="text-align: right;">5,046,752.15</td></tr> </tbody> </table>	TDR NO	Rs		32399434877	308,855.24		32654087378	107,819.59		33171568280	506,575.30		33062685839	588,320.75		33251159345	465,411.06		33529725604	171,183.14		30275144311	153,511.07		10959318622	476,678.27		34169506239	251,787.04		10959318633	216,309.35		37580408810	824,596.82		34803843458	436,033.28		38515614449	269,835.62		38515614971	269,835.62	5,046,752.15	
TDR NO	Rs																																														
32399434877	308,855.24																																														
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38515614449	269,835.62																																														
38515614971	269,835.62	5,046,752.15																																													
Savings Bank Interest 31/03/2020	259,133.00																																														
	259,133.00	10,083,135.15																																													
		102,871,901.35																																													
Less : 20% Transferred to ISCA as Membership Income		955,450.00																																													
Less : Expenses incurred by Fund		276,432.45																																													
		101,640,018.90																																													
Balance of Life Membership Fund (A)		101,640,018.90																																													

Life Membership Investment		<u>Rs</u>
Balance as per Last Account		74,659,412.77
Add: New FDNo.	5,000,000.00	
Add: New FDNo.	<u>5,000,000.00</u>	<u>10,000,000.00</u>
		84,659,412.77

Add: Interest Accured during the year	<u>TDR No</u>	<u>Rs</u>	
	32399434877	308,855.24	
	32654087378	107,819.59	
	33171568280	506,575.30	
	33062685839	588,320.75	
	33251159345	465,411.06	
	33529725604	171,183.14	
	30275144311	153,511.07	
	10959318622	476,678.27	
	34169506239	251,787.04	
	10959318633	216,309.35	
	37580408810	824,596.82	
	34803843458	436,033.28	
	38515614449	269,835.62	
	38515614971	269,835.62	5,046,752.15
			<u>(B) 89,706,164.92</u>

Life Membership Bank A/c State Bank of India	<u>Rs</u>	<u>Rs</u>
		15,627,353.43

Opening Balance 01-04-2019		
Add: Transfer during the year (Last year bal trf)	2,502,000.00	
Savings Bank Interest	259,133.00	
	<u>3/31/2020</u>	<u>2,761,133.00</u>
		18,388,486.43

Less:Expenses incurred		
Commision for Membership to Chapters	276,432.45	
Less: Fixed Deposit of Rs 50 lakh each	10,000,000.00	10,276,432.45
		<u>8,112,053.98 (C)</u>

A =	B +	C
<u>Rs</u>	<u>Rs</u>	<u>Rs</u>
101,640,018.90	89,706,164.92	8,112,053.98

Difference to be transferred in Current year	3,821,800.00
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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. Management has given physical verification report of Library Books, Journals and ISCA priced publication of proceedings for the year 2019-20.
2. "Plan subscription of Journal" although capitalized in 2008-09, no depreciation has been charged till 31.03.2010. However, during the current year Rs. 134.07 has been charged as depreciation in Income & Expenditure Account.
3. As practiced since 1991-92, with reference to Accounting Policy of ISCA (Para 2.3) ` Out of Rs.47,77,250/- being 80% of Life Membership subscription received during the current year i.e. Rs. 38,21,800.00 has to be transferred in Life Membership Subscription Fund and balance Rs. 9,55,450/- is to be treated as Membership Income. A statement of Reconciliation of Life Membership Subscription Fund and Investment thereof till 31.03.2020 given in sub-schedule no. IA.
4. 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.
5. 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.
6. 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.
7. Contingent Liability for the Income Tax Demand of Rs. 32,40,302/- for Assessment Year 2012-2013 is under appeal.
8. 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. Income tax to be paid on such amount and remaining amount should be treated as income of 2020-21.
9. 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.
10. It is recommended that balance sheet, receipt and payment account and a Certificate of utilization of fund containing UDIN signed by Chartered accountant in standard format should be obtained from all chapters within 31st May from the end of the financial year.
11. 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 recipient has stopped work after receiving the advance

for which a notice is given to the advocate of the party.

12. There has been a payment of Rs. 49.71 lacs and Rs. 27.55 Lacs as Pension and Provident fund retirement benefit respectively during the year. The same is paid out of Pension fund bank account- Rs. 27.57 Lacs, Provident Fund Bank Account-Rs. 21.62 Lacs and Salary Account – Rs 28.07 lacs.

For AVSS & Associates.

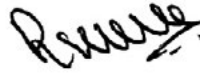
Chartered Accountants

FRN - 327456E




ACA. Avijit Singh
Partner

MNo. 306958



Dr. S. Ramakrishna
General Secretary
(Membership Affairs)



Dr. Sheo Satya Prakash
Treasurer

Place: Kolkata

Date: 01.12.2020

**THE INDIAN SCIENCE CONGRESS ASSOCIATION
BALANCE SHEET OF ENDOWMENT FUNDS AS AT 31ST MARCH,2020**

Particulars	Note	Current Year Rs	Previous Year Rs
LIABILITIES			
Endowment Fund Balance	19	3,11,94,608.74	2,99,96,931.54
Total:		3,11,94,608.74	2,99,96,931.54
PROPERTIES & ASSETS			
Endowment Investments	20	3,11,94,608.74	2,99,96,931.54
Total:		3,11,94,608.74	2,99,96,931.54

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: 01.12.2020

THE INDIAN SCIENCE CONGRESS ASSOCIATION
INCOME & EXPENDITURE ACCOUNT OF ENDOWMENT FUND
FOR THE YEAR ENDED 31ST MARCH,2020

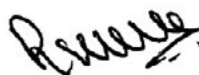
Particulars	Note	Current Year Rs	Previous Year Rs
Income	21	14,57,949	15,80,737
		14,57,949	15,80,737
Expenditure	21	2,60,272	5,89,754
		2,60,272	5,89,754
Excess of Income Over Expenditure		11,97,677	9,90,983
Less: Transferred to Respective Fund		11,97,677	9,90,983
		-	-

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: 01.12.2020

Note 19**ENDOWMENT FUND BALANCES**

	Particulars	Balance as	Surplus(+)/	Donation	Balance as
		on 1-04-2019	Deficit(-) of		Received
		Rs	Respective	Rs	31.03.2020
			Fund		Rs
1	B.C.Guha Memorial Fund	1,99,882.39	3,449.00	-	2,03,331.39
2	G.P.Chatterjee & Smt Suniti Chatterjee Fund	8,59,173.38	29,344.00	-	8,88,517.38
3	Prof Hiralal Chakraborty & Smt Toru Chakraborty	4,06,488.60	16,648.00	-	4,23,136.60
4	Prof K.P. Rode Memorial Lecture Fund	1,99,403.66	9,844.00	-	2,09,247.66
5	Pran Vohra Award Fund	7,51,231.13	25,146.00	-	7,76,377.13
6	Raj Kristo Dutta Memorial Award Fund	1,83,802.00	(3,620.00)	-	1,80,182.00
7	Prof Uma Kant Sinha Memorial Award Fund	3,79,623.81	14,215.00	-	3,93,838.81
8	Dr B.C.Deb Memorial Award Fund	7,09,915.39	17,026.64	-	7,26,942.03
9	Prof R.C. Saha Memorial Award Fund	1,67,039.55	325.64	-	1,67,365.19
10	Prof R.C. Mehrotra Commemoration Award Fund	3,44,639.74	19,403.00	-	3,64,042.74
11	Prof S.K.Mukherjee Commemoration Award Fund	3,18,356.45	9,201.00	-	3,27,557.45
12	Prof (Mrs) Anima Sen Memorial Award Fund	2,23,246.00	10,153.00	-	2,33,399.00
13	Dr (Mrs) Gouri Ganguly Award Fund	3,62,195.15	6,994.00	-	3,69,189.15
14	Prof S.S.Katiyar Commemoration Lecture Fund	7,78,215.00	18,604.00	-	7,96,819.00
15	ISCA Award Fund	1,03,18,692.66	4,91,995.00	-	1,08,10,687.66
16	ICSA Vikram Sarabhai Memorial Award Fund	15,81,247.29	79,451.00	-	16,60,698.29
17	ISCA Excellence in Science & Technology Award Fund	35,90,334.00	1,62,218.00	-	37,52,552.00
18	ISCA Royalty Fund	7,91,684.50	33,458.00	-	8,25,142.50
19	ISCA Infosys Foundation Travel Award Fund	7,72,733.84	(31,294.08)	-	7,41,439.76
20	Prof R.C.Mehrotra Memorial Life Time Achivement Award Fund	29,47,587.00	1,29,652.00	-	30,77,239.00
21	Prof M.K.Singal Memorial Award Fund	13,88,877.00	73,314.00	-	14,62,191.00
22	Prof Archana Sharma Memorial Award Fund	6,69,653.00	37,965.00	-	7,07,618.00
23	Prof G.K.Manna Memorial Award Fund	7,79,576.00	29,737.00	-	8,09,313.00
24	Prof V.K.Puri Memorial Award Fund	7,33,115.00	1,430.00	-	7,34,545.00
25	Prof W.D.West Memorial Award	5,40,219.00	13,018.00	-	5,53,237.00
		<u>2,99,96,931.54</u>	<u>11,97,677.20</u>	-	<u>3,11,94,608.74</u>

Note 20**ENDOWMENT FUND INVESTMENTS**

	Particulars	In Term Deposit	2019-2020 In Bank	Total	2018-2019
		Rs	Rs	Rs	Rs
1	B.C.Guha Memorial Fund	1,25,000.00	78,331.39	2,03,331.39	1,99,882.39
2	G.P.Chatterjee & Smt Suniti Chatterjee Fund	4,20,000.00	4,68,517.38	8,88,517.38	8,59,173.38
3	Prof Hiralal Chakraborty & Smt Toru Chakraborty	2,25,000.00	1,98,136.60	4,23,136.60	4,06,488.60
4	Prof K.P. Rode Memorial Lecture Fund	95,000.00	1,14,247.66	2,09,247.66	1,99,403.66
5	Pran Vohra Award Fund	4,25,000.00	3,51,377.13	7,76,377.13	7,51,231.13
6	Raj Kristo Dutta Memorial Award Fund	1,00,000.00	80,182.00	1,80,182.00	1,83,802.00
7	Prof Uma Kant Sinha Memorial Award Fund	1,85,000.00	2,08,838.81	3,93,838.81	3,79,623.81
8	Dr B.C.Deb Memorial Award Fund	3,79,955.00	3,46,987.03	7,26,942.03	7,09,915.39
9	Prof R.C. Saha Memorial Award Fund	1,20,000.00	47,365.19	1,67,365.19	1,67,039.55
10	Prof R.C. Mehrotra Commemoration Award Fund	2,30,000.00	1,34,042.74	3,64,042.74	3,44,639.74
11	Prof S.K.Mukherjee Commemoration Award Fund	1,50,000.00	1,77,557.45	3,27,557.45	3,18,356.45
12	Prof (Mrs) Anima Sen Memorial Award Fund	1,00,000.00	1,33,399.00	2,33,399.00	2,23,246.00
13	Dr (Mrs) Gouri Ganguly Award Fund	2,00,000.00	1,69,189.15	3,69,189.15	3,62,195.15
14	Prof S.S.Katiyar Commemoration Lecture Fund	5,00,000.00	2,96,819.00	7,96,819.00	7,78,215.00
15	ISCA Award Fund	64,00,000.00	44,10,687.66	1,08,10,687.66	1,03,18,692.66
16	ISCA Vikram Sarabhai Memorial Award Fund	8,00,000.00	8,60,698.29	16,60,698.29	15,81,247.29
17	ISCA Excellence in Science & Technology Award Fund	20,00,000.00	17,52,552.00	37,52,552.00	35,90,334.00
18	ISCA Royalty Fund	3,00,000.00	5,25,142.50	8,25,142.50	7,91,684.50
19	ISCA Infosys Foundation Travel Award Fund	5,00,000.00	2,41,439.76	7,41,439.76	7,72,733.84
20	Prof R.C.Mehrotra Memorial Life Time Achivement Award Fund	15,00,000.00	15,77,239.00	30,77,239.00	29,47,587.00
21	Prof M.K.Singal Memorial Award Fund	10,00,000.00	4,62,191.00	14,62,191.00	13,88,877.00
22	Prof Archana Sharma Memorial Award Fund	5,00,000.00	2,07,618.00	7,07,618.00	6,69,653.00
23	Prof G.K.Manna Memorial Award Fund	5,00,000.00	3,09,313.00	8,09,313.00	7,79,576.00
24	Prof V.K.Puri Memorial Award Fund	5,00,000.00	2,34,545.00	7,34,545.00	7,33,115.00
25	Prof W.D.West Memorial Award	5,00,000.00	53,237.00	5,53,237.00	5,40,219.00
		<u>1,77,54,955.00</u>	<u>1,34,39,653.74</u>	<u>3,11,94,608.74</u>	<u>2,99,96,931.54</u>

Note 21

	2019-2020				2018-2019				
	Income	Expenditure	Surplus (+)/ Deficit(-) to Respective Fund	Income	Expenditure	Surplus (+)/ Deficit(-) to Respective Fund	Income	Expenditure	Surplus (+)/ Deficit(-) to Respective Fund
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
1	B.C.Guha Memorial Fund	10,209.00	6,760.00	3,449.00	9,953.00	-	9,953.00	-	9,953.00
2	G.P.Chatterjee & Smt Sumiti Chatterjee Fund	41,404.00	12,060.00	29,344.00	40,104.00	29,899.00	10,205.00	29,899.00	10,205.00
3	Prof Hiralal Chakraborty & Smt Toru Chakraborty	20,648.00	4,000.00	16,648.00	23,241.00	4,000.00	19,241.00	4,000.00	19,241.00
4	Prof K.P. Rode Memorial Lecture Fund	9,844.00	-	9,844.00	9,750.00	-	9,750.00	-	9,750.00
5	Pran Vohra Award Fund	35,146.00	10,000.00	25,146.00	35,953.00	11,460.00	24,493.00	11,460.00	24,493.00
6	Raj Kristo Dutta Memorial Award Fund	8,440.00	12,060.00	(3,620.00)	9,930.00	2,060.00	7,870.00	2,060.00	7,870.00
7	Prof Uma Kant Sinha Memorial Award Fund	18,215.00	4,000.00	14,215.00	17,357.00	7,070.00	10,287.00	7,070.00	10,287.00
8	Dr B.C.deb Memorial Award Fund	33,798.00	16,771.36	17,026.64	34,103.00	9,120.00	24,983.00	9,120.00	24,983.00
9	Prof R.C. Saha Memorial Award Fund	8,858.00	8,532.36	325.64	9,000.00	9,120.00	(120.00)	9,120.00	(120.00)
10	Prof R.C. Mehrotra Commemoration Award Fund	19,403.00	-	19,403.00	17,769.00	10,000.00	7,769.00	10,000.00	7,769.00
11	Prof S.K.Mukherjee Commemoration Award Fund	14,201.00	5,000.00	9,201.00	15,976.00	5,000.00	10,976.00	5,000.00	10,976.00
12	Prof (Mrs) Anima Sen Memorial Award Fund	10,153.00	-	10,153.00	11,086.00	-	11,086.00	-	11,086.00
13	Dr (Mrs) Gouri Ganguly Award Fund	18,914.00	11,920.00	6,994.00	18,395.00	13,085.00	5,310.00	13,085.00	5,310.00
14	Prof S.S.Katiyar Commemoration Lecture Fund	40,664.00	22,060.00	18,604.00	67,594.00	49,394.00	18,200.00	49,394.00	18,200.00
15	ISCA Award Fund	5,05,638.00	13,643.00	4,91,995.00	5,55,996.00	72,757.00	4,83,239.00	72,757.00	4,83,239.00
16	ISCA Vikram Sarabhai Memorial Award Fund	79,451.00	-	79,451.00	69,236.00	-	69,236.00	-	69,236.00

	2019-2020			2018-2019		
	Income	Expenditure	Surplus (+)/ Deficit(-) to Respective Fund	Income	Expenditure	Surplus (+)/ Deficit(-) Transferred to Respective Fund
	Rs	Rs	Rs	Rs	Rs	Rs
17 ISCA Excellence in Science & Technology Award Fund	1,62,218.00		1,62,218.00	1,79,589.00	1,18,063.00	61,526.00
18 ISCA Royalty Fund	33,458.00	-	33,458.00	35,273.00	-	35,273.00
19 ISCA Infosys Foundation Travel Award Fund	38,718.00	70,012.08	(31,294.08)	37,737.00	83,696.75	(45,959.75)
20 Prof R.C.Mehrotra Memorial Life Time Achivement Award Fund	1,31,712.00	2,060.00	1,29,652.00	1,57,042.00	52,060.00	1,04,982.00
21 Prof M.K.Singal Memorial Award Fund	73,314.00	-	73,314.00	76,104.00	-	76,104.00
22 Prof Archana Sharma Memorial Award Fund	37,965.00		37,965.00	35,342.00	20,253.00	15,089.00
23 Prof G.K.Manna Memorial Award Fund	41,797.00	12,060.00	29,737.00	38,662.00	16,310.00	22,352.00
24 Prof V.K.Puri Memorial Award Fund	35,020.00	33,590.00	1,430.00	39,841.00	39,956.00	(115.00)
25 Prof W.D.West Memorial Award Fund	28,761.00	15,743.00	13,018.00	35,704.00	36,450.00	(746.00)
	14,57,949.00	2,60,271.80	11,97,677.20	15,80,737.00	5,89,753.75	9,90,983.25







The Indian Science Congress Association

(Professional Body under Department of Science & Technology
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