107th INDIAN SCIENCE CONGRESS

Science & Technology: Rural Development

University of Agricultural Sciences, Bangalore
3-7 January, 2020

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WOMEN'S SCIENCE CONGRESS
Women in Science and Technology for Sustainable Development



Dr. Trilochan Mohapatra, Secretary (DARE) and Director General (ICAR) Dr. S. Rajendra Prasad, Vice-chancellor: Dr. Tessy Thomas, Director General, Aeronautical Systems: Prof. K. S. Rangappa, General President, ISCA Kolkata and dignitaries releasing the compendium of abstracts of Women Science Congress

The University of Agricultural Sciences, Bangalore and Indian Science Congress Association, Kolkata jointly organized the 107th Indian Science Congress at GKVK campus Bangalore from 3rd to 7th January 2020. Women Science Congress (Women in Science and Technology for Sustainable Development) was organized on 5th January 2020. Dr. Anoop Kumar Jain, General Secretory (Scientific Activities), ISCA, Kolkata 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 Women Science Congress and mentioned that, Indian Science Congress is a good forum for congregation of Scientists from several disciplines, so that original basic science will set new paths for advanced frontier area technologies. It also will help to inspire several generations imbibe, and pursue good science and congratulated the Nobel women awardees for their remarkable and recognizable contribution to the Science & Technology. Dr. Tessy Thomas, Director General, Aeronautical Systems, DRDO, Bengaluru was the chief guest and stressed that, Science and Technology is an essential tool for socio-economic status of the country and also it is required for the overall development of the country. Thus, the role of technologically educated population is very important for overall development of the country. Prof. Vijay Laxmi Saxena, General President Elect, ISCA, Kolkata, Dr. Namitha Gupta, Adviser and Scientist 'G', DST, New Delhi and Prof. Shakunthala Shridhara, Hon'ble Member, Board of Mangement, UASB were Participated as guests of honour. Dr. D.L.Savithramma, Dean (Agri.) and Chairperson, WSC-2020 was present on the occation. Prof. K. S. Rangappa, General President, ISCA Kolkata presided over the programme. Prof. S. Ramakrishna, General secretary (Membership Affairs), ISCA, Kolkata, proposed vote of thanks.



Dr. S. Rajendra Prasad, Vice-chancellor; Prof. K. S. Rangappa, General President, ISCA, Kolkata and dignitaries inaugurating the Science Communicators Meet

The University of Agricultural Sciences, Bangalore, and Indian Science Congress Association, Kolkata jointly organized the 107th Indian Science Congress at GKVK campus Bangalore from 3rd to 7th January 2020. Vigyan Sancharak Sammelan-Science Communicators meet was organized on 5th January 2020. Dr. Anoop Kumar Jain, General Secretory (Scientific Activities), ISCA, Kolkata welcomed the dignitaries. Prof. K. S. Rangappa, General President, ISCA, Kolkata was inaugurated by watering the plant along with dignitaries and released the compendium of abstracts of Science Communicators. He mentioned the importance of communicators who acts as a bridge between the researchers & the readers, and encouraged the budding scientists to develop writing skills. Dr. Akhilesh Gupta, Head, NCSCT, Department of Science and Technology, GoI, New Delhi participated as chief guest and emphasises on the role of communicators in popularizing the science through their innovations and motivated young faculty and researchers to inculcate writing skills, promotion and dissemination of science to the community to the larger extent. Further, he emphasise on the new programme "Avasar" for Doctoral and Post-Doctoral students to improve their writing skills. Dr. B. C. Deb Memorial Award for popularization of science 2019-2020 awarded to Dr. Sachin Kumar Singh, Lovely Professional University, Phagwara. Dr. S. Rajendra Prasad, Vice-chancellor and Chairman, 107th Indian Science Congress presided over the programme. Dr. S. Ramakrishna, General Secretory (Membership Affairs) ISCA; Akhilesh Gupta, Head, NCSTC and Dr. Joshi, Department of Science and Technology, GoI, New Delhi were the guests of honour.

YOGA SCIENCE MEET

Dr. H. R. Nagendra in his speech mentioned about the major technical breakthrough in the society and various dimensions of changing society in terms of health, education, science and technology *etc*. He specifically pointed out about 'Stress' and its ill effects in our day to day life, not only physically, but also mentally and the role of Yoga in eliminating stress.

Dr. Indranill Basu Ray deliverd talk on Yoga Research- Evidence and Need for a New Research Paradigm. comprehensively pointed out various medical cases and scenarios both nationally and globally and He pointed about three types of stress i.e eustress (positive stress), distress (negative stress) and toxic stress (High grade distress) and various stress management techniques.

Dr. B. N. Gangadhar in his speach on Connectedness and Yoga, A nerobiological evidence, defined Yoga and labelled it as merging one's own consciousness with the cosmic consciousness. He shared various medical experinces and role of yoga in treatment of Schizophrenia. He said how Yoga improves connections with the brain and how to reap off its benefits in medical sciences.

Prof. Akshay Anand delivered talk on can Sudarshan Kriya Yoga and related meditation techniques protocol facilitates acclimatization at high altitude and discussed about the positive role of Yoga and meditation in human physical and mental health in high altitudes with the help of the data of his research.

Dr Vinod Kumar in his interaction with the participants created an informal environment and facilitated the participants to do some of the 'asanas' of Yoga to bring mental peace and very skilfully explained "The Scientific Benefits of Sudarshan Kriya" with the help of datas and facts.

The whole session of Yoga Science Meet revolved around the central theme of integrating the main concept of Yoga with human lifestyle, scientific benefits and conceptualising it in this fast changing modern society.

107th Indian Science Congress

The following Concurrent Plenary Sessions were conducted *viz.,* Advances in Basic Medical and Clinical Interactions; Advances in Basic Medical and Clinical Interactions; Non-communicable Diseases in Rural Population; Human Microbiota-is it a Potential Controller of Health and Disease; Cancer Research – Therapeutic Applications; Nano Materials for Energy, Environment and Health Care; Infertility in Rural Women of India- Causes, Prevention and Treatment; Materials Science and Technology for Rural Development; Materials Science and Technology for Rural Development.

Glimpses of 107th INDIAN SCIENCE CONGRESS

















TODAY'S ATTRACTIONS

Inauguration of Farmer's Science Congress; Valedictory programmes-Women's Science Congress, Science Communicators Meet and Children Science Congress; 26 Concurrent Technical Sessions and Nine Concurrent Plenary Sessions (Topics) - Novel Therapeutics in Oncology; Novel flavonoids for the treatment of neurodegenerative disease; Diagnostic and Therapeutic Strategies for Multifactorial Alzheimer's Disease; Strategic applications of nitro compounds in organic synthesis: recent progress; Deciphering roles of chondroitin sulphate by sugar re-modeling; Halogen Bonding in Thyroid Hormone Action and Membrane Transport; Development of Novel Positive Allosteric Modulators of GABAA Receptors; Novel Concepts in ITAM signaling in platelets; The Ins and Outs of Platelet "Cell" Biology in Hemostasis and Beyond; Curing sepsis using a pathogenic HIT antibody; Knockout of von Willebrand Factor in Zebrafish by CRISPR/Cas9 Mutagenesis: A beginning of a novel screen to identify modifier genes; Environmentally Preferable Smart Chemistries for the Oil and Gas Industry; Pore Pressure Prediction for Drilling High Pressure and High Temperature Wells - Implications on Health, Safety, Security and Environment; Challenges and Prospects of Microbiology in Oil and Gas Industry; Mitigation of Corrosion of Mild Steel by Acid Gases in the Oil and Gas Industry in Challenging Environments using Production Chemicals; Exploiting Nano and Biomimetic technologies for Efficient Oil and Gas Exploration and Recovery; Targeting of PI3kinase/AKT/mT OR Signaling in Cancer by Lipophilic Phenoxazines; Pathophysiological basis of management of Parkinsons' Disease; Evolving concepts of Autoimmunity in Parkinsons Disease; Advanced Therapy Strategies for Parkinson's Disease in Clinical Setting; Regenerative strategies for Parkinson's disease: challenges and promises; Chemical Glycobiology (Starting from Glycoconjugate Syntheses); Design and Development of New Efficient and Greener Strategies for the Synthesis of Biologically Important Heterocycles; Neutralization of 'Big Four' Indian snake venom-induced systemic and local toxicities; Malathion Induced Leukemia: Molecular Mechanisms; The Current Status of Zoo Medicine in Malaysia: A 57 years History; An overview on various approaches employed in understanding and treating chronic stress induced depression in animal models; Introduction of innate immunity proteins as resistance-free antibiotics; Epigenetics, life beyond gene sequence: Implications in health and disease; RAD51 paralogs : unraveling the new roles in genome stability and tumor suppression.

Cultural Programme by *PRABHATH GROUP*

107th INDIAN SCIENCE CONGRESS IN PRINT MEDIA

