

INDIAN SCIENCE CONGRESS ASSOCIATION, KOLKATA

Sponsored

Two Day National Level Conference
on

EMPOWERMENT OF RURAL COMMUNITIES THROUGH INNOVATIONS IN SCIENCE AND TECHNOLOGY

Jointly Organised by

**INDIAN SCIENCE CONGRESS ASSOCIATION
COIMBATORE CHAPTER**

&

**KONGUNADU ARTS AND SCIENCE COLLEGE
COIMBATORE**

21 & 22, February, 2020



THE HOST INSTITUTION

Kongunadu Arts and Science College started with pre-university course in the year 1973-74, has grown tremendously in academic stature and is now offering 23 UG and 14 PG courses. The college has also blossomed into a full-fledged Research institute offering M. Phil. and Ph.D. in 13 subjects. The college has been Re-accredited with "A" Grade - 3.64 CGPA out of 4 by the National Assessment and Accreditation Council (NAAC) in the 3rd Cycle. Recognizing the quality of Teaching imparted in this college, the University Grants Commission (UGC) awarded the status of "College with Potential for Excellence" (CPE) to the college in the year 2011. Satisfied with the successful implementation of the CPE scheme, the UGC has awarded the status of "College of Excellence" to the college. Being a research institute, the college has so far produced 696 M.Phil. degree holders and 306 Ph.D. degree holders. Currently 61 candidates are pursuing their M.Phil. degree and 228 research scholars are pursuing their Ph.D. degree. In the Research front, 11 Major projects for the tune of Rs. 1.17 Crore and 16 Minor projects amounting to Rs.37 lakhs have been completed during the past five years, at present 9 projects are in progress (7 major and 2 minor projects) for tune of Rs. 72.17 lakhs funded by various agencies like UGC, DBT, DST, TNSCST, etc., More than 1000 research articles are published in national and international peer reviewed journals. Our institute-wide commitment to the development of innovative thinking in a culture of collaboration makes the learners an ideal venue for sharing ideas about futuristic research, which connects academics across disciplines and cultures.

INDIAN SCIENCE CONGRESS ASSOCIATION, COIMBATORE CHAPTER

The Indian Science Congress Association (ISCA) owes its origin to the foresight and initiative of two British Chemists, Professor J.L. Simonsen and Professor P.S. MacMahon. It occurred to them that scientific research in India might be stimulated if an annual meeting of research workers somewhat on the lines of the British Association for the Advancement of Science could be arranged. To achieve this goal, regional chapters for ISCA have been established. Thus at the initiative of Dr. M. Aruchami, then Secretary and Director of Kongunadu Arts and Science College, the Coimbatore Chapter was started in the year, 2008 and he was appointed as Convener of this Chapter. It was inaugurated by His Excellency, Hon'ble Dr. A.P.J. Abdul Kalam, Former President of India on 03.05.2008 in Kongunadu Arts and Science College premises. Coimbatore Chapter of ISCA takes efforts to popularize science and foster a scientific temperament among the scientists and researchers by involving them in a series of workshops /seminars /conferences /lectures organized every year, since its inception. The Coimbatore Chapter has been selected as one among the three chapters all over the nation for ISCA Centenary Celebrations in the year, 2012. Under this credit, the chapter successfully organized and conducted the Southern Regional Science Conference on 'Science for Shaping the Future of India' on 15 th and 16 th December 2012 which was held in the premises of Kongunadu Arts and Science College, Coimbatore in a grand manner. ISCA, Coimbatore Chapter continues its journey in bridging the gap between science and the common man.

ABOUT THE CONFERENCE

India, the traditional agricultural country harbours about 69% of its total population in rural areas. It caters food not only for its huge population of over 12 million people but also exports farm produce to other nations after green revolution in 1960s. However, varied land use pattern, habitat destruction, land degradation, environmental pollution, application of synthetic fertilizers, chemical pesticides, over exploitation of ground water, invasion of wild animals, climate change, etc. affect the quality of grains and other agricultural produces without providing environmental security in the last few decades. As more than 60% of people in our country directly and indirectly depends on agriculture for their livelihood and economic wellbeing, government authorities and policy makers are giving importance by offering new strategies for the substantial production of food grains along with ecological security and thus moving towards food security to all. Organic farming, ecofriendly chemicals for pest control, non-invasive programmes with less investment for power generation using solar energy, wind, biomass, etc., switching of crop pattern according to climate change, augmentation of ground water, strengthening of water bodies for better and efficient irrigation and progressive development of agro based businesses like dairy, sheep rearing, sericulture, aquaculture, mushroom cultivation, poultry, biogas plants, sustainable development of costal wealth, agroforestry, medicinal gardens for both productive and consumptive uses, edible oil production and post harvest technology for ensuring longer storage of grains and vegetables are some of the areas given priority to achieve the goal.

Proper health care, quality education, sanitation, adequate employment, development of agro based industries, transport, lack of cottage industries, facilities for marketing the agricultural and other manufactured goods for assured prices, etc. are the other areas need still more attention by providing cost-effective ways through science & technology. In this juncture, the proposed national conference on the above mentioned topic will definitely provide opportunity for knowledge and technology transfer to the stakeholders like farmers and other sectors of people in the rural areas. Further, it will create awareness among the student community about the importance of rural development for the nation building. Experts and scientists with expertise in the respective areas of agriculture and rural development across the nation will share their knowledge and skill with the participants to promote the activities for rural development. The major focal areas of the deliberations in the conference are

- ☒ Traditional knowledge and agricultural prosperity.
- ☒ Organic farming with environmental security.
- ☒ Smart farming for judicious utilization of resources.
- ☒ Impact of climate change on agriculture.
- ☒ Pest control using ecofriendly measures.
- ☒ Vector borne diseases and its control in rural areas
- ☒ Vermitechnology - an aid to enhance food production.
- ☒ Sericulture for integrated farming.
- ☒ Animal Husbandry – a tool for rural development.
- ☒ Aquaculture for additional revenue.
- ☒ Biodiversity conservation
- ☒ Apiculture – a farmer friendly programme.
- ☒ Mushroom cultivation for supplementary food supply.
- ☒ Medicinal garden for rural health care.
- ☒ Traditional knowledge and alternative medicine
- ☒ Solar energy – a non-invasive source for agriculture needs.
- ☒ Augmentation of ground water.
- ☒ Water bodies and surface water management.
- ☒ Cottage Industries based on local resources.
- ☒ Biogas plants and biofuels – the environmental friendly sources for rural development.
- ☒ Environmental toxicology
- ☒ Miscellaneous.

Format of the Abstract

Font: Times New Roman

Font Size: Heading :14, Content: 12,

Maximum words: 250

Line spacing: 1.5

Author names with affiliation should be mentioned as follows

Name, Department, Institution and address, email id,

Corresponding author name should be in bold, Presenting author name with *

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Students & Full time M.Phil and Ph. D Scholars	Rs. 500	Rs. 700
Faculty and Scientists	Rs. 700	Rs. 900
Accompanying Person	Rs. 500	Rs. 700

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