SCIENCE ACADEMIES LECTURE WORKSHOP

ON
“BIOLOGICAL SCIENCES IN THE 21ST CENTURY”
23rd & 24th JANUARY 2015

SOUVENIR
SPONSORED AND SUPPORTED BY

The Indian Academy of Sciences, Bangalore
Indian National Science Academy, New Delhi
Indian National Academy of Sciences, Allahabad

Organized by

DEPARMENT OF BIOCHEMISTRY
PSG COLLEGE OF ARTS & SCIENCE
COMBATORE – 641 014

BIOLOGICAL SCIENCE IN THE 21ST CENTURY

The Indian Academy of Sciences, Bangalore, established in 1934, aims at promoting the progress and upholding the cause of science in pure and applied branches. The major activities of the academy include publication of Scientific Journals and Special Volumes, recognition of scientific talent and improvement of science education. The role of the academy is to organize - Symposia, Public Lectures, Discussion Meetings, Refresher Courses and Lecture Workshops jointly with Indian National Science Academy, New Delhi and Indian National Academy of Sciences, Allahabad in Institutions / Universities / Colleges throughout our country.
The lecture workshop was sponsored by these three academies, organized by the Department of Biochemistry, **PSG College of Arts & Science, Coimbatore** based on the theme **BIOLOGICAL SCIENCES IN THE 21ST CENTURY** for Under Graduate, Post Graduate, M.Phil, Ph.D Scholars and Staff Members.

**PARTICIPANTS**

**Day 1: 23.01.2015**

About 150 students from various colleges and universities participated in the programme. The participants were from Tamilnadu Agricultural University, Coimbatore, Dr. N.G.P Arts and Science College, Coimbatore, Sri Ramakrishna College of Arts and Science for Women, Coimbatore, R.V.S College of Arts and Science, Coimbatore, Kongunadu Arts and Science College, Coimbatore and Kongu Arts and Science College, Erode.

The world class eminent and Senior National Scientists namely Professor **Dr.S.Mahadevan**, from Indian Institute of Science, Bangalore, Professor **Dr.K.Veluthambi** (Retired), Madurai Kamaraj University, Madurai, **Professor Dr.R.Chandrababu**, Scientist – Tamilnadu Agricultural University, Coimbatore, Professor **Dr.T.J .Pandian**, Emeritus Professor of Annamalai University, Chidambaram and Professor **Dr.K.S.Subramanian**, Scientists in Nanoagriculture, Tamilnadu Agricultural University, Coimbatore were the distinguished speakers for the two day Lecture Workshop. Students benefitted and got motivated by the speeches delivered by the National Scientists.
The welcome address was delivered by Dr. D. Brindha, Head, Department of Biochemistry. Dr. R. Rajendran, Principal in his presidential address indicated the importance of interdisciplinary approach for the students who will opt research as their career. He also mentioned the significance of understanding the basic science and applying the knowledge of basic science in applied science and technology.

Further Prof. S. Mahadevan delivered inaugural speech. He emphasized the importance of understanding the science and eradicating the blind faith from day to day today life. He motivated our students to pursue research after their graduation for the contribution to academic and research. He explained the role of academy in sponsoring scholarship for students and faculty to take up training during summer. The Indian Academy publishes journals such as Resonance - Journal of Science Education, Current Science, Journal of Biosciences, Journal of Genetics, Journal of Chemical Sciences, etc.

Followed by the inaugural session, Prof. Dr. S. Mahadevan delivered his most awaited lecture on “New Insights Microbial Survival Strategies”. The talk was most informative especially on the genetics study of earlier days. Students and Staff Members were enlightened by his insightful talk on microbial genetics.
Dr. K. Veluthambi, briefed about the plant genetics engineering in the nutshell, followed by that, he gave a wonderful talk on rice functional genomics from *Agrobacterium tumefaciens*, T-DNA tagging and genetic engineering of male sterile rice. He stated about the case study of TC19 gene by silencing technique.

In the afternoon sessions Prof. R. Chandra Babu, delivered a lecture on “Genomic Assisted Breeding for Resistant Rice - Progress and Prospectus”. He also spoke about the importance of “Molecular Markers”
At the end of the first day of lecture workshop Dr.K.Veluthambi and Dr.S.Mahadevan interacted with the students and clarified the doubts and answered the questions raised by the students. Interactive session was very interesting - regarding the scope of science in future and the upcoming fields in science.

**Day 2: 24.01.2014**

Dr.K.S.Subramaniam delivered a scientific talk on Nano-agriculture and emphasized the application aspects of nano-technology in various fields like Food packaging using nano technology, food preservation, fruit ripening technology, Nano-device for detection of diseases pathogens, weed eradication in the agricultural fields with the nano-weedicides etc. He further motivated students with not only insightful talk on its invention but also by the most interactive sessions with students.
In the second sessions Emeritus Professor Dr. T.J. Pandian delivered an inspiring talk for the students. He added that students should take their teacher as their role model. We should realize, science is everywhere, in whatever we do, where ever we do. He stated that science is not born in sophisticated laboratories, but science is born, when you hit new ideas.

Valedictory Session was presided by Dr. R. Rajendran, Principal and Dr. T.J. Pandian was the chief guest. Dr. U. Saraswathi, delivered the welcome address and Dr. D. Victor Arockia Doss proposed vote of thanks. About the two day Lecture Workshop, the participants from various colleges and research institutions gave feedback. Dr. D. Brindha, Co-ordinator presented the report about the proceedings of the two days workshop.
Valedictory Session

Display of the Science Academy Journal

Model Prepared by Students

Lecture Workshop Team Members