

**TWO DAY NATIONAL CONFERENCE  
ON  
ENERGY AND ENVIRONMENT  
NCEE-2019  
FEB 15 & 16, 2019**

*Sponsored by*

**DEPARTMENT OF ENVIRONMENT AND CLIMATE CHANGE  
GOVERNMENT OF KERALA**



**An interdisciplinary seminar series**

**Organized by**



**SREE AYYAPPA COLLEGE**  
(Govt.Aided, Affiliated to University of Kerala)  
**ERAMALLIKKARA – 689 109**  
**CHENGANNUR, ALAPPUZHA (DIST), KERALA**

## **Report on National Conference on Energy and Environment (NCEE 2019)**

National Conference on Energy and Environment (NCEE 2019) aimed at natural scientists, technologists, social scientists and policy communities covering the direct and indirect environmental impacts of energy acquisition, transport, production and use. The technological and scientific aspects of energy and environment questions including energy conservation, and the interaction of energy forms and systems with the physical environment, were covered in the seminar. The conference was organized by Sree Ayyappa college, Eramallikkara and funded by department of environment and climate change, Government of Kerala. Institution for Electronics and Telecommunication Engineers (IETE), Kochi chapter provided the technical assistance for the programme.

The conference was inaugurated by **Prof. (Dr.) Sabu Thomas**, *Hon. Vice Chancellor, Mahatma Gandhi University, Kottayam* on 15.02.2019 at 9.00 am. The inaugural function was chaired by Principal Dr. K.S Anilkumar. The, convener of the NCEE 2019, Dr. Suresh.S welcomed the gathering. Dr. C.O Sreekala, Faculty from Amrita University, Amruthapuri campus, Kollam delivered the keynote address. Dr Reboya Cheriyan, Executive member, IETE Kochi delivered felicitations and Prof. K.C Prakash, convener, the Energerium (Science Exhibition on Energy and Environment) delivered vote of thanks.

The inaugural function was followed by the first invited talk by Dr. C.O Sreekala on “Emerging technologies on solar energy conversion”. Prof. (Dr.) K.J Vinoy, from IISc, Bangalore delivered a talk on RF power harvesting through video conferencing at 11.am. After the tea break the oral presentations (OP 1-11) of the delegates were conducted and the session was chaired by Dr. Riboy Cheriyan. Poster presentations (PP 01-15) were carried out from 12.30 -1.00 pm. Third invited talk was delivered by Dr. G. Nagendra Prabhu, Associate professor, SD college, Alappuzha on “Alternate livelihood programmes using aquatic weeds of Kerala in the post flood scenario”. This was followed by the oral presentations (OP 12-20) by the delegates and the session was chaired by Dr. G. Nagendra Prabhu. The science exhibition on “The Energerium” was also conducted parallel to the conference schedule and was aimed at nearby school and college students. The detailed report of the science exhibition is also attached herewith.

The second day of the conference (16.02.2019) began with an invited talk by Dr. Manoj A.G. Namboothiry, Associate Professor, Department of Physics, IISER, TVM on “Organic semiconductor fundamentals and device applications”. Oral presentations of delegates (OP 21-33)

were conducted from 10.30 am to 12.30 pm and the session was chaired by Dr. C.O Sreekala. Poster session was conducted from 12.30 – 1.00 pm and evaluated by Dr. C.O Sreekala. Post lunch session began with an invited talk by Dr. Lekshmi Bhaskaran, Faculty, Kadi Sarva Viswavidyalaya, Gujarat on “Bio leaching of e-waste”. The final oral presentations (OP 33-38) were chaired by Dr. Lekshmi Bhaskaran.

Valedictory session started at 3.30 pm. Principal Dr. K.S Anilkumar chaired the function and Dr. Lekshmi Bhaskaran delivered the key note address. Dr N Madhavan welcomed the gathering and Dr Suresh S and Prof K.C Prakash conveners of NCEE 2019 and The Energerium -science exhibition presented the report. Dr. Nitha B, Dr Sreedevi S, Prof K.L Ushakumary, Mr. Suresh Kumar (Vice President, PTA) and college union chairman Mr Ananthu Jayakumar delivered felicitations. Prizes were distributed by the Principal and the chief guest. The best paper awards (oral) were presented to Ms. Riya Sebastian, Department of Optoelectronics, University of Kerala and Ms. Pinku Krishnan, Department of Physics, University of Kerala, Trivandrum. The best paper awards (poster) were presented to Mrs. Sreelekshmi A.N, Department of Computer Science, Sree Ayyappa College, Eramallikkar and Ms Fathima Sharaf, Department of Nano science and Nano Technology, University of Kerala.

In the science exhibition “The Energerium”, best stall awards were presented to Department of biotechnology, SD college, Alappuzha and Department of Electronics and Communication Engineering, Sree Budha College of Engineering, Pattoor, Nooranadu. The valedictory session ended with National anthem.

The two-day national conference NCEE-2019 and the science exhibition “The Energerium” were widely accepted by the academic community and the public as well. The conference news was published in the leading Malayalam dailies. Around 170 participants attended the conference and 585 spectators visited the science exhibition stalls as per available records. The conference proceedings will be jointly published as an edited book with ISBN number by Department of Environment and Climate Change, Government of Kerala and Sree Ayyappa college, Eramallikkara. On behalf of the organizers and funding agency, IDES conference publishing system, managed by Grenze scientific society, Trivandrum will publish the book

Dr. Suresh S  
Convener NCEE-2019

Dr. K.S Anilkumar  
Principal, Sree Ayyappa College