

AHALIA HEALTH HERITAGE AND KNOWLEDGE VILLAGE (AHHKV)

Ahalia Health, Heritage & Knowledge Village is the largest edu-health campus in Kerala, in which heritage, healthcare & education go beyond its figurative meaning. The campus, situated in the splendid green valleys of the western Ghats in Palakkad, brings international standards to its various institutions such as Ahalia Foundation Eye Hospital, Ahalia Ayurveda Medical College and Hospital, Ahalia Diabetes Hospital, Ahalia Women and Children's Hospital, Ahalia School of Engineering and Technology, Ahalia School of Management, Ahalia School of Pharmacy, Ahalia School of Optometry, Ahalia School of Paramedical Sciences, Ahalia Public School, Ahalia Heritage Village, Ahalia Children's Village etc. and IIT Palakkad hosted in the campus.

AHALIA SCHOOL OF ENGINEERING AND TECHNOLOGY

Ahalia School of Engineering and Technology (ASET), provides high-class technical education and training in the fields of Engineering and Technology to meritorious students from diverse socio-economic backgrounds. The college, located in the lush green campus with a beautiful view of the Western Ghats, provides a peaceful and congenial atmosphere, which is ideal for students' holistic development.

Ahalia School of Engineering and Technology offers five B.Tech. courses, complemented by various co-curricular and extra-curricular activities. ASET, managed by Ahalia International Foundation, is approved by AICTE, New Delhi and is affiliated to the APJAK Technological University.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering at the Ahalia School of Engineering and Technology, Palakkad was established right at the inception of the college, in July 2012. The department has been consistently taking efforts in producing illustrious engineering graduates of high calibre who can occupy prestigious positions in the academic and industrial fields. The department offers four-year B.Tech programme in Electrical and Electronics Engineering. The department faculty members have various areas of specialization viz. Power System Engineering, Power Electronics and drives, Energy Engineering, Applied Electronics, Control Systems, Bio-Medical Engineering, Instrumentation and Control etc. Most of the faculty members of the department are pursuing their research in various universities.

ABOUT CSIR

The Council of Scientific & Industrial Research (CSIR) of the government of India, known for its cutting edge R&D knowledge base in diverse S&T areas, is a contemporary R&D organization. Having a pan-India presence, CSIR has a dynamic network of 38 national laboratories, 39 outreach centres, 3 Innovation Complexes and 5 units. CSIR's R&D expertise and experience is embodied in about 4600 active scientists supported by about 8000 scientific and technical personnel.

CSIR covers a wide spectrum of science and technology – from radio and space physics, oceanography, geophysics, chemicals, drugs, genomics, biotechnology and nano technology to mining, aeronautics, instrumentation, environmental engineering and information technology. It provides significant technological intervention in many areas with regard to societal efforts which include environment, health, drinking water, food, housing, energy, farm and non-farm sectors. Further, CSIR's role in S&T human resource development is noteworthy.

ABOUT THE CONFERENCE

Energy is a major parameter, which decides the economic development of any country. Increase in the industrial revolution leads to the enormous usage of energy in various sectors viz. industries, automobiles, agriculture, etc. Due to the demand in the availability of fossil fuels, pollution being addressed by the conventional power generation systems and the cost involved in it, an alternative energy system becomes necessary. Renewable energy resources and that too in a distributed nature, termed as Distributed Energy Resources (DERs), are the need of the hour. Renewable energy resources include solar, wind, tidal, chemical powers (Battery and Fuel Cells) etc. Integration of the DERs for generation of electricity and meeting the demand of the local consumers gives rise to the concept of Smart Grids.

This two-day National Conference on "Recent Trends in Renewable Energy Technologies and Smart Grids – RETS 2019", focuses on the theme of Renewable Energy sources, the methodology and technology behind the power extraction in these resources and concentrates on effective utilization of them. The integration of generating units, the concepts of feeding local consumers, their merits and demerits, combined co-generation systems, electricity tariff, automation and the role of internet shall be discussed on the area of smart grids.

TOPICS OF INTEREST FOR SUBMISSION INCLUDE, BUT ARE NOT LIMITED TO:

- Track 1 - Renewable Energy Technologies
- Track 2 - Smart Grids
- Track 3 - Power Systems, Power Electronics & Drives
- Track 4 - Artificial Intelligence, Machine Learning & Smart Computing
- Track 5 - Image and Signal Processing
- Track 6 - Data Analytics
- Track 7 - Lean Manufacturing
- Track 8 - Disaster Management

PATRON

Dr. V. S. Gopal, Chairman, AHHKV

ADVISORY COMMITTEE

- Dr. S. Gopakumar, Scientist "A" Grade, CECRI Karaikudi, Tamil Nadu
- Dr. N. Kalaiselvi, Senior Principal Scientist, CECRI Karaikudi, Tamil Nadu
- Dr. Sundar Mayavan, Scientist, CECRI Karaikudi, Tamil Nadu
- Prof. Sankaranarayanan M. V., IIT Madras
- Dr. R. Vinu, Associate Professor, IIT Madras
- Dr. Haribabu Krishnan, NIT Calicut
- Dr. B Rohini Kumar, NIT Calicut
- Dr. M. Vengada Kiruthika, NIT Trichy
- Dr. Devi Balakrishnan, Prof. & Head, Dean – Research, NSSCE, Palakkad
- Dr. Giby Jose, St. Joseph's College of Engineering & Technology
- Dr. S. Muthukrishnan, NCERC, Palakkad
- Prof. G. Natarajan, Former Scientist, CSIR - CMERI, Durgapur
- Prof D. Prakash, Prof. & Head – ME, ASET.
- Dr. Jino John, Prof. & Head – CE, ASET.
- Dr. V. Balamurugan, Prof. & Head – ECE, ASET.
- Dr. Binoy Balan, Prof. & Head – S & H, ASET.

ORGANIZING COMMITTEE

| | |
|--------------------|---|
| Chairman | : Dr P. R. Sreemahadevan Pillai, Director, Ahalia Group of Institutions & Principal, ASET |
| Vice Chairman | : Dr. Krishna Kumar Kishor, Asst. Director, Ahalia Group of Institutions |
| Convener | : Dr. G. Muruganath, Prof. & Head /EEE |
| Co-Convener | : Prof. A. Manickavasagam, EEE Dept. |
| Organizing members | : Lakshmy Suresh, EEE Dept. Midhun Murali, EEE Dept. Swetha R, EEE Dept. Sowmya S, EEE Dept. Arun Raj T, EEE Dept. Vani Venugopal, EEE Dept. |

Participations:
Participation is invited from Students studying UG/PG, PhD Scholars and Faculty Members of Engineering Colleges. Prospective authors are invited to submit full papers describing original, previously unpublished, complete work (not currently under review by any other conference / journal) up to six pages in single column MS Word format including figure, results and references.

Important dates:
Last date for Registration: 05-03-2019
Dates of Programme: 15 and 16 March 2019


Registration Fee:
Rs. 1500/- per author. Certificates will be given to only to those authors who register for the presentation.

Registration fee can be paid in the form of DD / Cheque drawn in Favor of "Principal, Ahalia School of Engineering and Technology", Payable at Palakkad.



Publications:
All the accepted and presented papers will be published in a special issue of scopus indexed Journals with an additional fee.

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AHALIA  **SCHOOL OF ENGINEERING & TECHNOLOGY**
(ISO 9001:2015 Certified Institution)
Approved by AICTE & Affiliated to A. R. J. Abdul Kalam Technological University
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CSIR sponsored
Two Day National Conference on
"Recent Trends in Renewable
Energy Technologies
and Smart Grids – RETS 2019"

Organized by
Department of Electrical and Electronics Engineering
Ahalia School of Engineering and Technology.

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