ORGANIZING COMMITTEE

CHIEF PATRON

Dr. R. Vasanthakumar
Chairman and Managing Trustee
Karpagam Institutions

PATRONS

Er.K. Murugaiah
Chief Executive Officer
Karpagam Institutions

Dr. P. Vijayakumar
Principal

CONVENOR

Dr.T. Rammohan
Professor and Head/EEE

CO-ORDINATORS

Dr. K. Ramash Kumar
Professor/EEE
Ms. K. Sukanya
AP/EEE
Mr. M. Sivaramkrishnan
AP/EEE

Registration form completed in all aspects is to be sent to:

Co-ordinator
Two Days Workshop on
"Bloom Box-The Future Energy in India"
Department of EEE
Karpagam College of Engineering
Othakkalmandapam (P.O)
Coimbatore-641 032, India.
+91-8072262692
+91-9894910778
E-mail: ramashkumar.k@kce.ac.in

ABOUT THE COLLEGE

Karpagam College of Engineering is one of the Institution run by Karpagam Charity trust, established in the Year 2000. The College is an Autonomous Institution, Accredited by NAAC with 'A' Grade and four of the departments are accredited by NBA. The main focus is to impart quality education and an excellent career start to all our students. The College is approved by AICTE and affiliated to Anna University, Chennai and offers 9 UG, 5 PG and 4 Ph.D programmes with over 4500 students. The vision is to become one of the best Institutions at the National and International level by incorporating innovative teaching-learning methods to enable the students to secure a high-value career, motivate to pursue higher education and research to serve the society.

ABOUT THE DEPARTMENT

EEE Department was started in the year 2002 with a student intake of 60, the present student strength is 469 with an intake of 180. The Department is reaccredited by NBA. The Department maintains good Industry Institute partnership and MoUs signed with National Instruments for LabVIEW Academy, B & R Automation, AXIS Global Group of Companies and Hindustan Automation. The department is a recognized Research centre by Anna University since 2011 – 2012. The department has established the Centre for Research Training and Development in the academic year 2014 – 2015, for catering the needs of Students, Faculty and Research Scholars through value added programmes like workshops, seminars and conferences.

COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH
MINISTRY OF SCIENCE & TECHNOLOGY
GOVT. OF INDIA

Sponsored

Two Days Workshop
on
"Bloom Box- The Future Energy in India"

27.09.2018 To 28.09.2018

Organized by

Department of
Electrical and Electronics Engineering

KARPAGAM
COLLEGE OF ENGINEERING
Rediscover | Refine | Redefine
Coimbatore - 641 032

Autonomous | Affiliated to Anna University, Chennai
Accredited by NAAC with 'A' Grade | Accredited by NBA (ECE, EEE, CSE and IT)

ABOUT BLOOM BOX

In the current scenario, the Bloom Energy Server (the Bloom Box) is a novel technique and it's a most demanded technology regarding cost and performance. The Bloom Box is a solid oxide fuel cell (SOFC) power generator made by Bloom Energy, Sunnyvale, California, that takes a variety of input fuels, including liquid or gaseous hydrocarbons. Electricity is produced from biological sources at or near the site where it will be used. This new class of distributed power generator produces clean, reliable, affordable electricity at the customer's site. It can withstand temperatures of up to 1,800 °F (980 °C). According to the company, a single cell (one 100 mm× 100 mm plate consisting of three ceramic layers) generates 25 watts. The Bloom Energy Server uses thin white ceramic plates (100 × 100 mm) that are made from components found in beach sand. Each plate is coated with a green nickel oxide-based ink on one side, forming the anode, and another black (probably Lanthanum strontium manganite) ink on the cathode side. These materials are widely known in the field of SOFCs.

To save money, the Bloom Energy Server uses inexpensive metal alloy plates for electric conductance between the two ceramic fast ion conductor plates. In competing lower temperature fuel cells, platinum is required at the cathode.

OBJECTIVE

- To provide an overview on bloom box.
- To produce the impact on renewable energy.
- To expose the knowledge on solar and fuel cell technology.
- To deliver the outcomes of effective installations of bloom box.

COURSE CONTENTS

- Introduction on bloom box.
- Installation of bloom box-An overview.
- Role of fuel cells in fabricating bloom box.
- Crisis of power demand and effective utilization of renewable energy.
- MATLAB/Simulink design of solid oxide fuel cells in fabricating bloom box.

TARGET AUDIENCE

Faculty members working in Engineering and Polytechnic Colleges, Research scholars, Industry persons, UG/PG students and grass root innovators from relevant background of Science and Engineering.

RESOURCE PERSONS

Industrial Experts and Academicians from reputed Organizations.

REGISTRATION FEE

Students/ Research Scholars	: Rs. 500/-
Academicians	: Rs. 700/-
Industrial Persons	: Rs. 1000/-

HOW TO APPLY

The Participants can send their duly filled-in registration form to the coordinator along with the Demand Draft in favour of '**Karpagam College of Engineering**' payable at Coimbatore. The registration fee includes Kit, lunch and refreshment.

IMPORTANT DATES

Last date for receipt of application	: 25.08.2018
Intimation of Participants selected	: 04.09.2018
Confirmation by participants	: 10.09.2018

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REGISTRATION FORM

Name (in Block Letters)	:
Category	:
Educational Qualification	:
Designation	:
Organization	:
Department	:
Gender	:
Address for Communication	:
Mobile Number	:
E-mail ID	:
Accommodation Required	: Yes/No

Payment Details

DD. No	:
Amount	:
Date	:
Bank Name & Branch	:

Signature of the Applicant