

ABOUT VIT

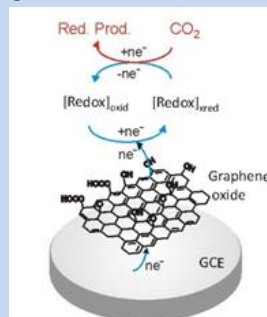
VIT was founded in 1984 as Vellore Engineering College by the Chancellor Dr. G. Viswanathan. From its humble beginning, the institution has grown exponentially to that of having more than 33,000 students. Students from all the states of India and from more than 50 countries are studying at VIT. Deemed University status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives. Currently, VIT has 4 campuses – in Vellore, Chennai, Amaravati (AP) and Bhopal (MP).

ABOUT CO₂ RESEARCH AND GREEN TECHNOLOGIES CENTRE

CO₂ Research and Green Technologies Centre (CO₂RGTC), a unique advanced research laboratory, was created by VIT University, Vellore to carry-out research and develop technologies for Carbon Capturing and Utilization (CCU), sustainable and green energy technologies and plan for projects on energy, water conservation, waste management and heat recovery. The centre was inaugurated on 15th February 2010 by Dr. Farooq Abdullah, Honorable Minister for New and Renewable Energy (MNRE) Govt. of India. The research centre consists of solar concentrating collectors, trigeneration plant, Kalina cycle system, solar desalination, solar cooling, solar thermal power generation, cooling cogeneration, solar tracking devices, solar Stirling engine, solar dryer, solar lighting, solar PV power plant, fuel cell setup, 100 kW biomass power plant using gasifier, biogas power plant, pyrolysis plant, bio energy technologies etc

OBJECTIVE OF THE WORKSHOP

Energy is a key driver of economic growth. With rapid developments taking place in all walks of life, demand for energy is ever increasing globally. Unpredicted surge in usage of fossil fuels and slower rate of energy generation has led to global energy imbalance. Increased dependency on fossil fuel also has a direct impact on global warming and climate change issues. In view of rapidly dwindling fossil fuels and environmental concerns it is high time to embark on renewable energy resources. The government also has set an ambitious target of installing 175 GW of renewable energy capacity by 2022. Renewable energy has started playing an increasingly important role for helping India to meet its growing energy demand and pursue its carbon mitigation target. India's target is to increase the country's share of non-fossil based installed electric capacity to 40 percentage and reduce India's GHG emissions intensity per unit GDP by 33 to 35% by 2030. In this context, this workshop aims to provide an excellent platform to discuss on various facets of research and in the area of Renewable Energy. Extensive application of emerging high efficient technologies for significant CO₂ reduction by way of adopting green technologies will also be discussed.



Electrocatalytic reduction of CO₂

Two day Workshop on Emerging Trends in Renewable Energy and Green Technology

7th & 8th February 2020



VIT[®]

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Organised by
Carbon Dioxide Research and Green
Technologies Centre
VIT, Vellore – 632014

VIT - A place to learn: A chance to grow

Resource Persons

1. **Dr. Ramesh T Subramaniam**, Professor
University of Malaya, Malaysia
2. **Dr. A. Senthil Kumar**, Senior Professor
& Director, CO₂RGTC, VIT Vellore
3. **Dr. Senthil Kumar Annamalai**, Senior
Professor, VIT Vellore
4. **Dr. S. Murugavelh**, Associate Professor,
VIT Vellore

Topics to be covered

- ❖ Polymer Electrolytes for Solid-state
Energy Storage
- ❖ Supercapattery: A New Hybrid Energy
Storage Device
- ❖ CO₂ Refrigeration system
- ❖ Conversion of CO₂ into useful fuel
- ❖ Thermo-chemical conversion of biomass
into fuel

Who will benefit

The workshop will benefit teachers, researchers, students of engineering, consultants and Industry Participants.



CHIEF PATRON

Dr. G. Viswanathan, Chancellor

PATRONS

Mr. Sankar Viswanathan, Vice President

Dr. Sekar Viswanathan, Vice President

Mr. G. V. Selvam, Vice President

Ms. Kadhambari S. Viswanathan,
Assistant Vice President

ADVISORS

Dr. Anand A. Samuel, Vice Chancellor

Dr. Narayanan S, Pro Vice Chancellor

IMPORTANT INFORMATION

REGISTRATION FEE

Students Participants : ₹ 1000 /-

Academia/R&D Participants : ₹ 1500 /-

Industry participants : ₹ 3000 /-

**Accommodation will be provided on request
(PAYABLE)**

ADDRESS FOR CORRESPONDENCE

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Associate Professor

CO₂RGTC

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