



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of the UGC Act, 1956)



International Virtual Conference on CO₂ and Green Technologies

Organised by

**CO₂ Research and Green Technologies Centre,
Vellore Institute of Technology
Vellore**

&

Florida Agricultural & Mechanical University, USA

on

July 1st 2020



Registration details

The virtual conference will be online via zoom platform. Registration is free of cost.

To participate in the conference, one needs to register online using the following link

<http://shorturl.at/svC59>



Registered delegates will be provided the link for e-participation.

E-certificates will be issued to all the registered participants.

Last Date for Registration: 30th June 2020.

Note: The number of participants is limited to 1000, based on first come first serve.

For queries, please contact:

Dr.J.Ranjitha
+919952223180
ranjitha.j@vit.ac.in

Dr.S.Vijayalakshmi
+919791346604
vijayalakshmi.s@vit.ac.in

Organising Committee

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 Asst. Vice President
Co Patrons	Dr. Anand A. Samuel Vice Chancellor Dr. S. Narayanan Pro Vice Chancellor
Organising Chair	Dr.A.Senthil Kumar Director, CO ₂ RGTC
Conveners	Dr.J.Ranjitha CO ₂ RGTC Dr.S.Vijayalakshmi CO ₂ RGTC
Coordinators	Dr.Senthil Kumar Annamalai Dr.S.Murugavelh Dr.G.Velvizhi Dr.K.Shantha Kumar Dr.G.Praveen Kumar Dr.V.Gayathri Dr.M.S.Kavitha



VIT[®]

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



International Virtual Conference
on
CO₂ and Green Technologies

Jointly organised
by
CO₂ Research and Green Technologies Centre,
Vellore Institute of Technology
&
Florida Agricultural & Mechanical University, USA
Conference Date: July 1st 2020





**International Virtual Conference on
 CO₂ and Green Technologies
 Jointly organized by
 CO₂ Research and Green Technologies Centre,
 Vellore Institute of Technology
 &
 Florida Agricultural & Mechanical University,
 USA
 on
 July 1st 2020**

About the conference

Global warming has been a matter of great environmental concern. Great efforts and scientific research are on the way with a two – pronged strategy – development of effective technologies for carbon-di-oxide capture, storage & its utilization and development of sustainable green energy and technologies. The conference aims to deliberate upon advancements made and challenges faced in these fields.

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. VIT University ranked No.1 Private Engineering Institution by MHRD, Govt. of India (NIRF-2016 ranking). 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 focuses its cutting - edge research on energy and environmental related challenges leading to development of sustainable technologies. It is a unique centre which carries out research exclusively on various aspects of CO₂ related research like CO₂ sequestration, conversion of CO₂ in to useful fuels, development of trans critical CO₂ refrigerator and supercritical CO₂ based extraction technology. CO₂ RGTC also focuses on development of various sustainable technologies for the effective use of solar, wind, and bioenergy. Advance research is also carried out to develop materials for energy storage, fuel cells, and hydrogen energy.

About Florida Agricultural and Mechanical University

Founded on October 3, 1887, Florida A&M University is ranked as the number one public HBCU in the nation. FAMU values diversity in thought, perspective, and culture. FAMU is home to a wide variety of institutes and centers where

faculty and students conduct research to develop real-world solutions to society's challenges. The University offers 54 bachelor's degrees, 29 master's degrees, three professional degrees, and 12 doctoral programs in a wide range of academic areas. The University enrolls nearly 10,000 students hailing from across the United States and more than 70 countries, including several African countries, the Bahamas, Brazil, Indonesia, China, and the United Arab Emirates, to name a few. The student body includes representatives from all ethnic, socio-economic, and religious backgrounds.

Focal Areas:

- ✚ CO₂ Sequestration techniques
- ✚ Transcritical CO₂ refrigeration
- ✚ CO₂ to Value added products
- ✚ Electrochemical/Chemical reduction of CO₂
- ✚ Green route for the synthesis of value added products
- ✚ Biomass conversion technologies
- ✚ Conversion of waste to energy
- ✚ Second generation biofuels

List of Speakers

✚ **Dr.JensBo Holm-Nielsen**
 Aalborg University, Denmark



Topic: Cyanobacteria as a Platform for Biofuel Production

✚ **Dr. M. Razi Nalim**
 IUPUI, USA



Topic: A Green Pathway To Environmental Decarbonization

✚ Dr. Somasundaram R
Texas University, USA



Topic: Microbial based Biofuel Production

✚ Dr. Nazmul Ahsan,
University of Tokyo, Japan



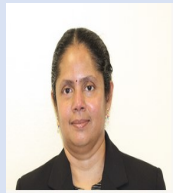
Topic: CO₂ Mitigation using High Efficiency based Solar Cells

✚ Dr. SV. Srinivasan
CSIR-Central Leather Research Institute, Chennai, India



Topic: Sustainable bioenergy from Municipal and Industrial Solid waste

✚ Dr. Avudai Anandhi Sankar
FAMU, USA



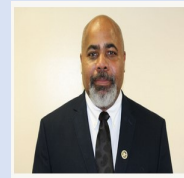
Topic: Biofuel from Agrobiomass and its LCA Analysis

✚ Dr. K. Gopalakrishnan
Wayne State University, USA



Topic: Microalgal based Biofuel Production

✚ Dr. Nathan Bailey,
FAMU, USA



Topic: Biofuel Modelling issues with Environmental Systems

✚ Dr. Kalyan Raman,
Thermax PVT LTD, India



Topic: Waste to energy production - A green sustainable approach

✚ Dr. Balasundaram Dhanraj
IOCL, India



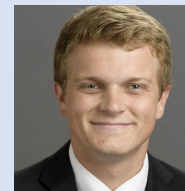
Topic: Recent Challenges in Bio-oil Production

✚ Dr. Elsa Antunes
James Cook University, Australia



Topic: Biomass Conversion and Value added Products

✚ Riley Barta
Purdue University, USA



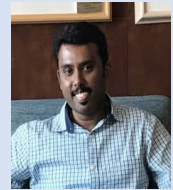
Topic: Advancements in transcritical CO₂ refrigeration cycles and ejector design

✚ Dr. Satyanarayan Dev,
FAMU, USA



Topic: Microwave-assisted Pyrolysis of Biomass

✚ Dr. Arun Prakash Periasamy
Queen Mary University of London



Topic: Electrochemical Reaction of CO₂

✚ Dr. Sebastia Puig Broch, LeQUiA
University of Girona, Spain



Topic: CO₂ to value added products through bioelectrochemical conversion

✚ Dr. Sivaprakash Sengodan
Imperial College, London, UK



Topic: Fuel Cell Systems

✚ Dr. Joan Carles Bruno Argilagué
Universitat Roviral Virgili
Tarragona, Spain



Topic: Recent Advances and Use of Green Fuels in Micro Gas Turbines

✚ Dr. Narayanan K
Tarleton State University, USA



Topic: Environmental Waste for Sustainable Bioenergy Production