



## DEPARTMENT OF BIOTECHNOLOGY

(Accredited by NBA, New Delhi)

*Proudly Organizes*

**II<sup>th</sup> Annual Conference**

**ORA'18**

**ENVIRO CONCLAVE - "Green & Clean India"  
National Project Design Contest &  
Conference on Recent Advances in Green Chemistry  
& Sustainable Development**



**8<sup>th</sup> & 9<sup>th</sup> March, 2018**



## **About the College**

Our college was established in the year 1998-1999. It is named after the great son of soil, Karmaveerar Kamaraj and the motto of the institution is BORN TO SERVE. It is promoted and supported by Virudhunagar Hindu Nadars' Devasthanam, various Hindu Nadars' Mahamai Tharappus in Virudhunagar and other educational institutions of Virudhunagar. The management of the institution consists of the elected members of various Mahamai Tharappus of Virudhunagar.

### **Vision of the Institution**

To make the Institution unique of its kind in the field of research and development activities in this part of the world.

### **Mission of the Institution**

To impart highly innovative and technical knowledge to the urban and rural student folks through "Total Quality Education".

## **About the Department**

The Department of Biotechnology was incepted in the academic year 2002-2003 with B.Tech course. M.Tech - Biotechnology was introduced in the academic year 2009-2010. Our Department was approved by Anna University as the Centre for Research in the year 2011. Subsequently, Ph.D program was initiated in 2011. So far, about 7.5 crore rupees have been invested in the Infrastructure development of Biotechnology department. The department of Biotechnology has received various research grants from DRDO, AICTE, TNSCST, BARC-BRNS, DBT, IAS and has been accredited by NBA (2017-2020).

### **Vision of the Department**

To Make the Department of Biotechnology, Unique of its kind in the field of Research and Development Activities Pertaining to the Field of Biotechnology in this Part of the World

### **Mission of the Department**

To Impart Highly Innovative and Technical Knowledge in the Field of Biotechnology to the Urban and Rural Student Folks through "Total Quality Education".

## About the conference

As India's population edges towards 1.5 billion, the resources of our country is decreasing rapidly. In India, there is a growing demand for food, manufactured goods and access to clean water and fuel in terms of quantitative and qualitative aspects. Additionally, it has become obvious that the products of human manufacture, even those produced to benefit society, often have negative effects on human health and the environment. The United Nations General Assembly has addressed these challenges in its Sustainable Development Goals (SDGs) which have been adopted in 2015. On the one hand, the Contributions of both science and engineering are indispensable to meet the SDGs. On the other hand, such efforts will only be successful if they contribute towards sustainable practices. To understand much better about the opportunities and the potentials of green and sustainable chemistry on the different levels of science and society, this conference would provided a forum for the participants from academia and industry, from authorities and other institutions to address these challenges in a unique manner the latest developments across the broad and diverse fields of Green Chemistry & Sustainable Development.

## Project Design Contest

**"ENVIRO CONCLAVE - Green & Clean India" - Swachh Bharat Abhiyan (SBA) (or Swachh Bharat Mission (SBM)) is a campaign in India that aims to clean up the streets, roads and infrastructure of India's cities, smaller towns, and rural areas.**

As Innovation and entrepreneurship are gaining more importance in the current Indian Scenario, the Department of Biotechnology, Kamaraj College of Engineering & Technology is intending to organize **"A National Project Design Contest on our Annual Event – ENVIRO CONCLAVE – Green & Clean India National Project Design Contest & Conference on Recent Advances in Green Chemistry & Sustainable Development"** for the students of Engineering Colleges. This presents an opportunity for all talented students to showcase their innovative projects. This project exhibition is the ideal platform for industries and national organizations to feel the pulse of the students and empower the students in the field of innovation and technology. This aims at initiating interest in entrepreneurial activities and encouraging young innovators to register for patents.

### The Events are,

- ✓ **My Idea Contest - Idea Level**
- ✓ **Oral & Poster Presentation - Research Level**
- ✓ **Project Contest - Prototype Level**
- ✓ **Business Plan Contest - Business Level**

# ENVIRO CONCLAVE

## Call for Paper and Project Designs

The authors are requested to submit the abstract relevant to the conference theme, maximum of 250 words, typed in Times New Roman, font size 12, line spacing 1.5. The abstract should be submitted either in Google form or to orabt2k18@gmail.com during registration.

## THEME AREAS

### (i) Renewable sources - conversion and storage

- ⌘ Biomass & Biofuel,
- ⌘ Wind Power,
- ⌘ Hydropower,
- ⌘ Solar Energy,
- ⌘ Geothermal Energy,
- ⌘ Tidal energy, Hydrogen & Fuel Cells,
- ⌘ Energy Storage
- ⌘ Organic synthesis – recent green developments
- ⌘ Inorganic resources – sustainable use of critical resources and materials etc.,

### (ii) Disaster Management

- ⌘ Natural disasters
- ⌘ Man-made disasters
- ⌘ Emergency preparedness
- ⌘ Global risks and health - Pandemic and biological threats
- ⌘ Public health preparedness etc.



### (iii) Pollution and control

- ⌘ Air Pollution and Treatment
- ⌘ Water Pollution and Treatment
- ⌘ Land Pollution and Treatment
- ⌘ Solid Waste Disposal
- ⌘ Industrial Pollution
- ⌘ Waste Management and Treatment etc.,

### (iv) Automation & IoT technology

- ⌘ Lab View
- ⌘ Environmental Sensors (Energy Efficiency, Energy Requirements)
- ⌘ Cloud Platform and Mobile Application

### (v) Smart Technology

- ⌘ Smart Governance
- ⌘ Smart Energy
- ⌘ Smart Buildings
- ⌘ Smart Security
- ⌘ Smart Farming

## Special Guest



### **Padma Shri Prof. Rajagopalan Vasudevan**

Professor and Dean ECA,  
Thiagarajar College of Engineering  
Madurai

## Keynote speakers



**Dr. K. Ruckmani,**  
Professor and Head,  
Department of Pharmaceutical Technology,  
Anna University Trichy



**Dr. Srikanth Mutnuri,**  
Associate Professor,  
Applied and Environmental Biotechnology Laboratory,  
Department of Biological Sciences  
Associate Dean for International Programmes and  
Collaboration, BITS-Pilani Goa Campus



**Dr. N. Selvaraju,**  
Assistant Professor  
Department of Biosciences and Bioengineering,  
Indian Institute of Technology Guwahati



**Mr. P. Thirumalai**  
Journalist & Editor

## PRIZES & AWARDS

### Technical Conference Presentations

Best Oral Presentation in Various Streams - ₹ 2000/- stream

Best Poster Presentation in Various Streams - ₹ 1500/- stream

Overall Best Oral Presentation will be awarded as

“Young Researcher Award - ORA’ 18” with the cash prize of - ₹ 3000/-

## National Project Design Contest Prizes under various categories

	External participant (Other Colleges)	Internal Participant (Our College – Other departments)
My – Idea Contest	Winner - ₹ 2000/- Runner - ₹ 1000/-	
Business Plan	₹ 3000/-	
Best Project in the stream - Renewable sources	₹ 8000/-	₹ 4000/-
Best Project in the stream - Disaster Management	₹ 8000/-	₹ 4000/-
Best Project in the stream - Pollution monitoring and control	₹ 8000/-	₹ 4000/-
Best Project in the stream - Automation & IoT technology	₹ 8000/-	₹ 4000/-
Best Project in the stream - Smart technology	₹ 8000/-	₹ 4000/-
Best Innovation Project	₹ 15000/-	

## **IMPORTANT DATES**

Abstract submission deadline : 23<sup>rd</sup>, Feb, 2018  
Acceptance Notification : 26<sup>th</sup>, Feb, 2018  
Payment - Early Bird : 2<sup>st</sup>, March, 2018

## **REGISTRATION DETAILS**

Google registration form link

<https://goo.gl/forms/02zhD5o9i3NZIAXN2>

or submit to [orabt2k18@gmail.com](mailto:orabt2k18@gmail.com)

**Early-bird registrations (On or before 2<sup>nd</sup> March 2018)**

Students/Research Scholars ₹ 750

Faculty members and Industrialists ₹ 800

**Late/Spot Registrations:**

Students/Research Scholars ₹ 800

Faculty members and Industrialists ₹ 1000

Kindly make Demand Draft in favour of **“The Principal, Kamaraj College of Engineering and Technology”**, Payable at Virudhunagar



## **ACCOMMODATION**

Limited accommodation on sharing basis is available in college hostel with nominal charge on first come first serve basis for outstation students.

## **Contact:**

Website: [www.kamarajengg.edu.in](http://www.kamarajengg.edu.in)

Email: [orabt2k18@gmail.com](mailto:orabt2k18@gmail.com)

## **Organizing Secretary**

Er. S. Mariaamalraj - 95855 50185

Er. V. C. Padmanaban - 98948 00751



## Chief Patron

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Secretary

## Patron

Prof. Anant Achary  
Principal

## Convener

Dr. M. Vasanthi  
Head - BT

## Organizing Secretary

Er. S. Mariaamalraj  
Er. V.C. Padmanaban

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