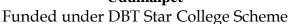


## Sri G.V.G Visalakshi College for Women (Autonomous) Udumalpet





Frontiers in Nanotechnology and Computational Chemistry

Date: 28.12.2018, Friday Venue: Assembly Hall

**AGENDA** 

Inaugural Session : 9.30 am - 11.00 am

Prayer

Welcome Address : Mrs. M. Malarvizhi

Assistant Professor and Head, Department of Chemistry

Presidential Address: Mrs. S. Kalaiselvi

Principal In-charge

Inaugural Address : **Dr. V. Venkateswaran** 

Former Principal and Dean, Physical Sciences Sree Saraswathi Thyagaraja College, Pollachi.

Vote of Thanks : Mrs. S. Umadevi, Assistant Professor in Chemistry

Tea Break:11.00 am - 11.15 amTechnical Session I:11.15 am - 12.30 pmResource Person:Dr. M. Dhandapani

Associate Professor in Chemistry

Sri Ramakrishna Mission Vidyalaya College for Arts and Science

Coimbatore.

**Topic:** Computational chemistry

**Lunch Break** : 12.45 pm – 1.15 pm **Technical Session II** : 1.30 pm – 2.30 pm

Resource Person : **Chokkalingam Anand** 

Project Researcher, Okubo-Wakihara Lab Department of Chemical System Engineering

School of Engineering, The University of Tokyo

Tokyo 113-8656, Japan

**Topic:** In-situ recrystalization: A faster top-down approach to

prepare Zeolite nanocrystals

**Technical Session III**: 2.30 pm – 3.30 pm Resource Person : **S. Vishnu Priya** 

> Project Researcher, Institute of Industrial Science Department of Materials and Environmental Science

The University of Tokyo, Japan.

Topic: Zeolite for medicals and CO<sub>2</sub> capture

**Valedictory Session**: 3.30 pm - 4.30 pm

Welcome Address : Mrs. R. Chitradevi, Assistant Professor in Chemistry

Valedictory Address : Dr. Nagarajan Loganadhan

UGC - Assistant Professor, School of Chemistry

Bharathidasan University, Tiruchirappalli.

Vote of Thanks : Mrs. V. Anitha, Assistant Professor in Chemistry

**National Anthem** 



## The Hast Institution

Sri GVG Visalakshi College for Women, appeared in the academic map of Tamilnadu in 1952 as the first women's college in the then composite Coimbatore district comprising Erode, Coimbatore and Nilgiris. The college works on the vision of the founder, renowned Philanthropist and Industrialist, Sri G.V.Govindasamy Naidu, "To Educate and Empower rural Women". The college obtained Autonomy in 1995, ISO 9001:2008 certification in 2011, and Reaccreditation with 'A' grade by NAAC (Third cycle with CGPA 3.53) in 2013. The college continuously aims to enlarge the scope and variety of higher education by offering innovative, traditional and contemporary courses. The college is implementing the concept of Outcome Based Education from the academic year 2017-18 onwards. The college strives to empower students through women making education for life and living and live up to the ideal set by the motto of the college "Not for Self, But for All". Community and Extension activities in villages are a regular feature of our college. Our college has been developing rapidly as one of the best and leading higher learning institutions in Tiruppur district and has made a mark in the arena of higher education.

## About the Departmen

The Department of Chemistry was established in the year 1962. The Department has an excellent academic record and has bagged several ranks of Bharathiar University, Coimbatore, for several consecutive years. The Chemistry laboratories are well furnished and equipped with instruments like Electro Chemical Work Station, UV- Visible spectrophotometers, Flame photometer, Polarogram, Muffle furnace etc. The Department has received funds from UGC to carry out minor research projects. The Department is financially supported by the Department of Science and Technology under the DST-FIST funding and has also been identified to participate in DBT-Star College scheme for enhancing the activities of the Science Departments. Many National Seminars/Workshops under various fields of chemistry have been organized every year with funds received from various funding agencies. The Department has well qualified and experienced faculty members. Faculties have publications of research articles in reputed National and International journals. A reasonable institute-industry interaction with a good placement record exists in the Department. The Department of Chemistry has a well established academic track record of having produced more than 2000 chemistry graduates. It has an excellent academic record in preparing students for career and higher studies.

# Objective of the Seminar

This seminar aims at disseminating knowledge through invited lectures by eminent scientists in the domain of Nanoscience and Computational Chemistry. The research areas in chemistry is growing at a phenomenal pace. It is necessary to have regular seminars and conferences on various aspects of it. Hence the Department of Chemistry is organizing the

## Programme Schedule

Registration: 9.00 am - 9.30 am

Inaugural Session: 9.30 am - 11.00 am

Welcome Address : Mrs. M. Malarvizhi

Assistant Professor and Head, Department of Chemistry

Presidential Address: Mrs. S. Kalaiselvi

Principal In-charge

Inaugural Address : Dr. V. Venkateswaran

Former Principal and Dean, Physical Sciences Sree Saraswathi Thyagaraja College, Pollachi.

Vote of Thanks: Mrs. S. Umadevi, Assistant Professor in Chemistry

echnical Session I : 11.15 am - 12.30 pm Topic: Computational Chemistry

Resource Person : Dr. M. Dhandapani

Associate Professor of Chemistry

Sri Ramakrishna Mission Vidyalaya College for Arts and Science,

Coimbatore.

Technical Session II: 1.30 pm - 2.30 pm

Topic: In-situ recrystalization: A faster top-down approach to prepare Zeolite nanocrystals

Resource Person : Chokkalingam Anand

Project Researcher, Okubo-Wakihara Lab

Department of Chemical System Engineering School of Engineering.

The University of Tokyo, Tokyo 113-8656, Japan.

Technical Session III: 2.30 pm - 3.30 pm Topic: Zeolite for medicals and CO<sub>2</sub> capture

Resource Person : S. Vishnu Priya

Project Researcher, Institute of Industrial Science Department of Materials and Environmental Science,

The University of Tokyo, Japan.

Valedictory Session: 3.30 pm - 4.30pm

Welcome Address: Mrs. R. Chitradevi, Assistant Professor in Chemistry

# ORGANIZING COMMITTEE

Patron: Mr. G. Raveendran

Secretary

Chairman: Mrs. S. Kalaiselvi

Principal In-charge

Convenor: Mrs. M. Malarvizhi

Assistant Professor in Chemistry, HOD

Organizing

Committee : Mrs. S. Umadevi

Assistant Professor in Chemistry

Mrs. R. Chitradevi

Assistant Professor in Chemistry

Mrs. V. Anitha

Assistant Professor in Chemistry

Dr. J. Bhuvaneswari

Assistant Professor in Chemistry

Dr. M. Indrani

Assistant Professor in Chemistry

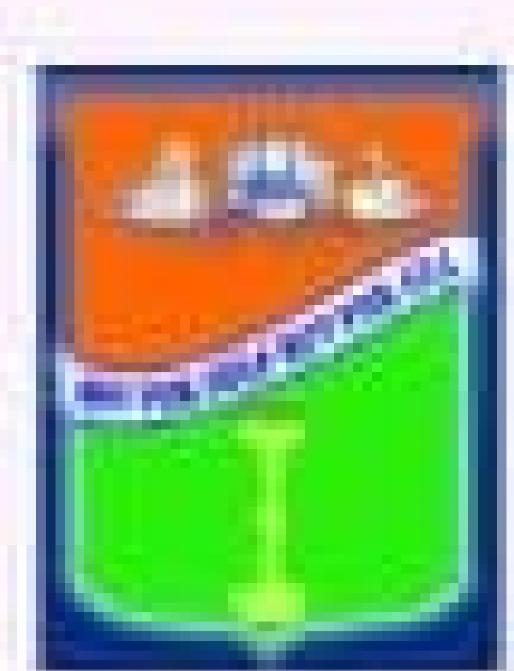
Dr. E. Vaishnavi

Assistant Professor in Chemistry

Address for Communication

Department of Chemistry,

Sri GVG Visalakshi College for Women,

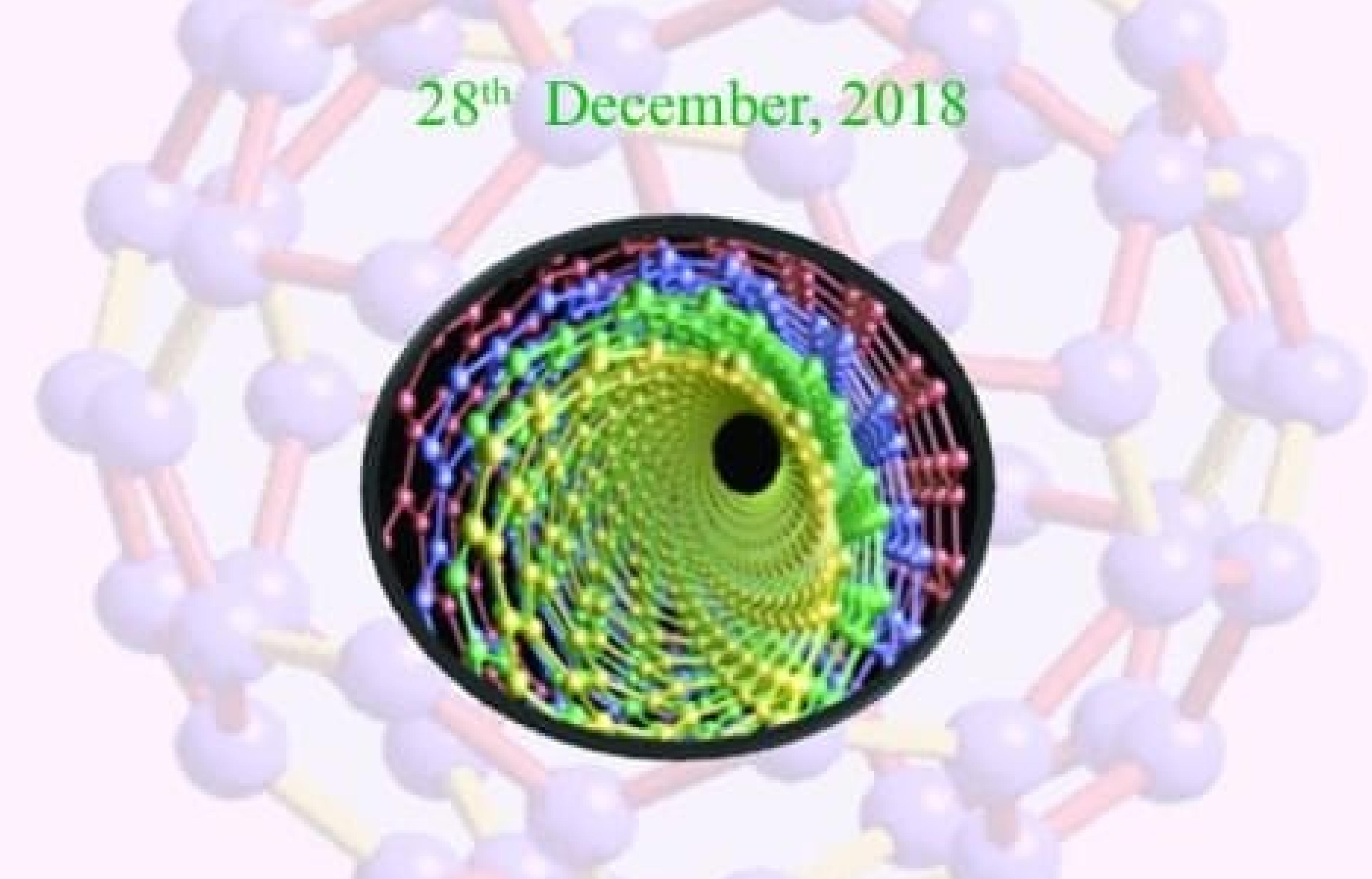


We cordially invite you all for the One Day International Seminar

on

# Frontiers in Nanotechnology and Computational Chemistry

Funded under DBT Star College Scheme



Organized by

Department of Chemistry
Sri GVG Visalakshi College for Women

## SRI G.V.G VISALAKSHI COLLEGE FOR WOMEN

(Autonomous)
Accredited at 'A' Grade by NAAC
An ISO Certified Institution
Udumalpet

## **DEPARTMENT OF CHEMISTRY**

## Report on One Day International level Seminar funded under DBT Star College Scheme

Date : 28<sup>th</sup> December, 2018

**Audience** : Chemistry, Physics and Zoology students and staff members

**Topic** : Frontiers in Nanotechnology and Computational Chemistry

## **About the seminar:**

This seminar aims at disseminating knowledge through invited lectures by eminent scientists in the domain of Nanotechnology and Computational Chemistry. The research areas in chemistry are growing at a phenomenal pace. It is necessary to have regular seminars and conferences on various aspects of it. Hence the Department of Chemistry is organizing the seminar on Frontiers in Nanotechnology and Computational Chemistry' with the aim of gathering together scientists, researchers, academicians and students to have valuable discussion and exchange the scientific information. It would also endeavor to provide a broad background and observe different dimensions of various scientific applications. We anticipate that interaction on such key areas would generate sustainable solution to global changes and also influence the inquisitive minds to appreciate their future course in Chemistry.

In the Inaugural session Mrs.M.Malarvizhi, Head, Department of Chemistry, Convenor of this seminar welcomed the gathering. Mrs. S. Kalaiselvi, Principal In-charge, delivered the presidential address. Principal narrated the need and necessity of such programme mentioning the mission and vision. In the Inaugural address Dr. V. Venkateswaran, Former Principal and Dean, Physical Sciences, Sree Saraswathi Thyagaraja College, Pollachi made a fact that Materials Science is a fast-growing field of both research and industrial area. According to a recent world economic survey, it has been observed that the industry of Chemical materials contributes the most to the global economy hike. After the general overview of the current scenario, he elaborately shared his thoughts on Green Initiatives and practical chemistry. The session was mind blowing and interactive one. The session came to an end with vote of thanks by Mrs. S. Umadevi, Assistant Professor in Chemistry.

Dr. M. Dhandapani, Associate Professor in Chemistry, Sri Ramakrishna Mission Vidyalaya College for Arts and Science, Coimbatore delivered the Technical Session I on the topic " Computational chemistry ". The presentation included an introduction to the most

important forms of emerging topics and critical reviews of important topics in computational chemistry. Topics covered include quantum chemistry, molecular mechanics, chemical education, and applications in academic and industrial settings. Focusing on the most recent literature and advances in the field, each article covers a specific topic of importance to computational chemists. He discussed on the strategies that can be adopted towards computational technologies. Some new policies and strategies adopted in western countries were analysed. All the whole the session was very useful and productive. The finding of the session is that inspite of the performance renewable energy investment was noticeably more impressive in the last few years, yet more must be made. The session is spell bound and interactive.

In the technical session II, Chokkalingam Anand, Project Researcher, Okubo-Wakihara Lab, Department of Chemical System Engineering, School of Engineering, The University of Tokyo, Tokyo 113-8656, Japan gave a lecture on the Topic "In-situ recrystallization: A faster top-down approach to prepare Zeolite nanocrystals". He discussed about the principle, working, types and applications of Zeolite nanocrystals. Speaker emphasized that control of the crystal size and the tailoring the mesopores and macropores among the crystals are important factors for applications of these nanocrystals. Thus, they have an important role in daily life. In this regard, characteristics of nanocrystals that are used in medical measuring and analyzing have been determined are presented. The importance and the latest advancements made in the field fascinated the audience to a greater extent.

The Valedictory Address was delivered by S. Vishnu Priya, Project Researcher, Institute of Industrial Science, Department of Materials and Environmental Science, The University of Tokyo, Japan. In the session a great interest in Zeolite for medicals and CO<sub>2</sub> capture is aroused. The way of lecture is very much admired by the students. The techniques and the information shared were interesting and remarkable. Professor motivated students to take up research related to energy and environment. Advancements and usage of solar cells in the country was explored. Dr. Nagarajan Loganadhan, UGC - Assistant Professor, School of Chemistry, Bharathidasan University, Tiruchirappalli delivered the valedictory address. Finally, the principal distributed the certificates followed by the vote of thanks by Mrs.R.Chitradevi, Assistant Professor in Chemistry.

On the whole, the seminar was a grand success with 300 beneficiaries.

## Feedback from the beneficiaries:

- Conducive environment for the programme
- Clear picture of the techniques is explained
- Content is relevant to the seminar topic
- Queries were made clear
- Good time management









One Day International Seminar On Frontiers in Nanotechnology and Computational Chemistry 28.12.2018