

# KONGUNADU ARTS AND SCIENCE COLLEGE

(Autonomous)

Coimbatore – 641 029

## DEPARTMENT OF CHEMISTRY (PG)

Department Activity for the Academic Year 2017-2018

### 1. DEPARTMENT ASSOCIATION INAUGURATION

The **Department of Chemistry (PG & Research) Association** was inaugurated by **Dr. S. Vijayalakshmi**, Associate Professor, Govt. Arts College, Coimbatore on 17-07-2017.

**Dr. K. Kalpanadevi**, Assistant professor and Head, welcomed the gathering. Felicitations were offered by **Dr. V. Chinnusamy**, CEO. Inaugural address was given by Dr. S. Vijayalakshmi, Associate Professor, Govt. Arts College. She delivered a talk on “**Observing stereochemistry and its advantages in day-to-day life**”.

The importance of stereochemistry has been known and studied for a long time. This branch of chemistry involves the study of the relative spatial arrangement of atoms that form the structure of molecules and their manipulation. The study of stereochemistry focuses on stereoisomers, which play an important role in medicine.

The chief guest taught the students about the basic principles of stereochemistry and quoted many examples in research field and wished the students a successful academic year. The function ended well with national anthem.



## 2. “SCIENCE ACADEMIES’ LECTURE WORKSHOP”

The Department of Chemistry (PG & Research) organized “Science Academies’ Lecture Workshop” on 21<sup>st</sup> and 22<sup>nd</sup> July 2017. The lectures given in the workshop addressed to the latest advances in electrochemical systems and relevant materials. 150 participants from various institutions at the national level attended the workshop.

The workshop started with a prayer song. Dr. K. Kalpanadevi, Assistant Professor & Head, Department of Chemistry (PG) delivered the welcome address. The presidential address was given by Dr. V. Balasubramaniam, Principal. Dr. Aninda J Bhattacharrya, Associate Professor, Solid state and structural chemistry unit, IISc, Bengaluru, delivered the inaugural address. Felicitations were offered by Dr. V. Chinnusamy, CEO.



The technical sessions of Day I – 21.07.2017 (Friday) were by Prof. Vijayamohanan K. Pillai, CSIR-CECRI, Karaikudi and Dr. Raj Pal Ganesh, IIT-Kanpur. Prof. Vijayamohanan K. Pillai, addressed on the topics '*Chemistry and the world of intelligent materials*' and '*Applications of nanocarbons for electrochemical energy storage*'. Dr. Raj Pal Ganesh gave lectures on the topics '*Engineering semiconductor interface via non-native nanostructures to facilitate electron-hole separation*' and '*Material design principles for oxygen evolution electrocatalysts*'.



The speakers for Day II – 22.07.2017 (Saturday) were Prof. S. Sampath, IISc, Bengaluru and Dr. Aninda J Bhattacharyya, IISc, Bengaluru. Prof. S. Sampath talked on the topics '*Basic concepts involved in the electrochemistry at interfaces*' and '*Recent developments in the area of unconventional electrode materials*'. Dr. Aninda J Bhattacharyya spoke on '*Electrochemistry of biological molecules*' and '*Microbial Fuel Cells*'.



The lecture workshop ended with the valedictory function. Vote of thanks was given by Dr. K. Kalpanadevi, Coordinator of the workshop, which was followed by the National Anthem.



### **Departmental Activity from December 2017-March 2018**

#### **1. Experimental Approaches in Analytical Electrochemistry (EAAE-2018)**

The Department of Chemistry (PG & Research) organized a One-Day National Level Workshop on "Experimental Approaches in Analytical Electrochemistry (EAAE-2018)" on 28<sup>th</sup> February 2018, sponsored by ISCA Coimbatore Chapter in association with Kanopy Techno Solutions, IIT Kanpur. The lectures given in the workshop addressed to the latest advances in

electrochemical systems and relevant materials. Participants from various institutions at the national level attended the workshop and got benefited.

The chief guests of the function were Dr. Raj Pala Ganesh, Associate Professor of Chemical Engineering, IIT-Kanpur, Dr. Anuj Awasthi, Director & Co-founder, Kanopy Techno Solutions Pvt. Ltd. and Dr. Joy Bhattacharjee, Director & Co-founder, Kanopy Techno Solutions Pvt. Ltd.

The workshop started with a prayer song. The organizing secretary of the workshop Dr. K. Kalpanadevi, Assistant Professor & Head, Department of Chemistry (PG) delivered the welcome address. The presidential address was given by Dr. V. Balasubramaniam, Principal. Dr. Raj Pala Ganesh, Associate Professor of Chemical Engineering, IIT-Kanpur delivered the keynote address. Felicitations were offered by Dr. V. Chinnusamy, CEO and Dr. S. Paulsamy, Dean (R&D).

During the inauguration function, Dr. R. Sathyamoorthy, HOD of Physics was honored by the Principal for being bestowed with the Tamilnadu Scientist Award by TNSCST. Dr. R. Sathyamoorthy delivered the inaugural address. Mrs. A. Amuthavalli delivered vote of thanks in the inauguration function.

Dr. Raj Pal Ganesh gave lecture on the topic '*Thermostat:Chemical reactions:: Potentiostat: ElectroChemicalreactions*'. Dr. Anuj Awasthi delivered a lecture on the topic '*Measure it right!*'. Dr. Joy Bhattacharjee talked on the topic '*Many Avatars of Potentiostat*'.

Dr. Anuj Awasthi and Dr. Joy Bhattacharjee also demonstrated the following experiments with the help of the electrochemical workstation.

*Electrochemical Water Splitting, Ferro-Ferri Cyanide Redox Couple, Electrochemical Synthesis of Graphene.*

The workshop ended with the valedictory function. Vote of thanks was given by Dr. K. Kalpanadevi, Organizing Secretary of the workshop, which was followed by the National Anthem.





## **2. Trends in Chemical Industry**

The Department of Chemistry (PG & Research) organized a One-Day National Level Seminar on “Trends in Chemical Industry”, sponsored by ISCA Coimbatore Chapter on 18.01.2018. Dr. K. Kalpanadevi, Assistant Professor and Head, Department of Chemistry (PG) welcomed the gathering. Dr. E. Jayanthi, organising secretary of this seminar explained about the theme of this seminar. Dr. C.A. Vasuki, Secretary and Director of Kongunadu Arts and Science College delivered the presidential address. Felicitation was given by Dr. V. Balasubramaniam, Principal, Dr. M. Revathibala, CEO i/c and Dr. S. Paulsamy, Dean R & D. Mr. M. M. Manivasaan, Director, WEFSA Farmers Producer Company Ltd, Perambalur delivered the keynote address.

In the technical session I, Mr.M.M.Manivaasan talked about his farm products related to chemistry. In technical session II, Dr.K.Chandraprakash, General Manager(R& D), AnalyticaChemieInc, Bangalore rendered insight into drug, its importance, its delivery, clinical trial and various important processes involved in pharmaceutical industry. Dr.AshishMandalik, General Manager(R & D) from SakthiSoyas Ltd gave speech in the technical session III, in which he explained about the important parameters to be maintained in food industry and

required permissions from various government departments. The seminar ended with thanks giving note by Dr.E.Jayanthi.



### 3. Industrial Visit

Industrial Visit was organized for the students of II MSc., Chemistry from 06.03.2018 to 07.03.2018 to Connemara Tea Factory, Thekkady. The students also visited the nearby places in Thekkady and Vagamon. The students were accompanied by Dr. K. Kalpanadevi and Mrs. A. Amuthavalli.

