

**DWARAKA DOSS GOVERDHAN DOSS VAISHNAV COLLEGE (AUTONOMOUS)**

**PG & RESEARCH DEPARTMENT OF CHEMISTRY**

**ANNUAL REPORT 2015-16**

**DEPARTMENTAL ACTIVITIES**

The Department of Chemistry arranged an invited talk by **Dr.Balakumar, Lead Investigator, Syngene International Ltd, Bangalore** about the “Chemistry within us and around us” was conducted for III B.Sc, I and II M.Sc Chemistry students on 31.07.2016.

**ACHIEVEMENTS OF STUDENTS**

**CO –CURRICULAR**

**G.Sangeetha (M.Phil student)** under the guidance of **Dr.K.Premalatha** has presented a poster in the 2<sup>nd</sup> national renaissance in chemical research organized by the Department of Chemistry, SRM University, Ramapuram on 28<sup>th</sup> & 29<sup>th</sup> of August 2015.

She won **BEST PAPER AWARD** for her paper entitled “Synthesis, Characterization & electroanalytical applications of nitrogen doped ordered mesoporous carbon for the selective determination of dopamine, L-Cysteine, ascorbic acid and paracetamol”

**S.Shravan kumar** (M.Phil student) under the guidance of **Dr.K.Premalatha** has presented an Oral presentation in the National conference on innovations in chemical sciences held in Guru Nanak College (Autonomous), Velacherry, Chennai 600042 on Jan 28<sup>th</sup> to 30<sup>th</sup> 2016.

**A.Prabhakaran** (Ph.D student) under the guidance of **Dr.T.Augustine Arul Prasad** gave an Oral presentation in the 2<sup>nd</sup> national renaissance in chemical research organized by the Department of Chemistry, SRM University, Ramapuram on Aug 28<sup>th</sup>&29<sup>th</sup> 2015.

**Gayathri** (Ph.D student) under the guidance of Dr.R.Kumaran presented a Poster in the International conference on Recent trends in Analytical chemistry organized by Department of Analytical Chemistry, University of Madras, Guindy Campus Dec 28 to 30<sup>th</sup> 2015.

### **EXTRA-CURRICULAR**

Chemistry students participated in various intercollegiate cultural functions during the month of Aug 2015 & Feb 2016 **M.Swedha & J.Nirmala Devi** of II M.Sc Chemistry won II<sup>nd</sup> prize for the events **PG quiz & JAM** in Women's Christian college. **M.Swedha & C.Gunaseelan** of II M.Sc Chemistry won II<sup>nd</sup> prize for the event **PG quiz** and the following students **M.Siva, M.Kumar, M.Karthik, V.Viswanathan** won II<sup>nd</sup> prize for **Treasure Hunt event** in Madras Christian. **M.Swedha** of II M.Sc Chemistry has secured II<sup>nd</sup> prize for PG quiz in Loyola college.

### **STAFF UPDATES**

### **CONFERENCE DETAILS**

**1. Dr.R.Vasanthi & Mr.V.Rajagopalan** have participated in the International Conference on Recent Trends in Analytical Chemistry organized by the University of Madras which was held on Dec 28-30, 2015 and presented a paper entitled synthesis of gum Arabic coated intercalated electrode Sn-Xb<sub>i</sub>O<sub>2</sub> by sol-gel method for supercapacitor application.

2. **Dr.M.Vanjinathan** has participated in the International Conference on Recent Trends in Analytical Chemistry organized by the University of Madras which was held on Dec 28-30, 2015 and presented a paper entitled Photophysical & electrochemical studies of interaction of DCM with GA in aqueous solution.

3. **Dr.T.Augustine Arul Prasad** has participated in the National conference on nano renaissance in chemistry organized by SRM University, which was held on Aug 28&29<sup>th</sup> 2015 and presented a paper entitled “Highly atom economic, chemo, regio and stereo selective synthesis of dispiro heterocycles from Claisen-Schmidt adducts through 1,3- dipolar cyclo addition”.

4. **Dr.M.Vanjinathan** has participated in the National conference on nano renaissance in chemistry organized by SRM University, which was held on Aug 28 & 29<sup>th</sup> 2015 and presented a paper entitled “Photophysical studies of DCM on Gum Arabic in aqueous solution”.

5. **Mr.V.Rajagopalan** have participated in the International conference on “Energy, Environment and Engineering which was held on 29 Feb, 1<sup>st</sup> and 2<sup>nd</sup> Mar 2016 and presented a paper entitled “Synthesis and characterization of NaCoO<sub>2</sub> intercalated electrode and gum Arabic polymer electrode for battery application”.

### **PUBLICATION DETAILS**

**Dr.S.Bangaru      Sudarsan      Alwar                      has      published      two      papers**

(i) “ Physico-chemical behavior of benzophenone with benzene at 303.15K using ultrasonic measurements” in the International journal of scientific engineering and technology, 4(10) pp 537-540, Nov 2015.

- (ii) “Electrochemical fabrication of Ag-Cu nano alloy and its characterization: An investigation” in the Journal of nanostructure chemistry in July 2015.

**Dr.T.Augustine Arul Prasad** has published a paper entitled “An efficient synthesis of dispiro heterocycles from claisen-schmidt adduct through 1,3 dipolar cyclo addition protocol” in the journal Der Pharmacia letter 7(8), pp 152-155, Sep 2015.

**Dr.K.Premalatha** has published a paper entitled “A Comparative study on the Electrochemical behavior of Ascorbic Acid, Paracetamol and L-Cysteine at the Carbon-Spinel Hetero Junction” in the International Journal of Innovative Research in Science, Engineering and Technology. 5(1) pp 61-70, March 2015.

The Following Staff Members of the Department of Chemistry have attended the refresher course held in the University of Madras and Central University, Hyderabad during the year 2015-16.

S.No	Name	Details	Month & Year
1	Dr.R.Kumaran	Refresher course in chemistry, batch XXV, University of Madras, HRDC	Aug 11-31 <sup>st</sup> 2015
2.	Dr.T.Augustine Arul Prasad	Refresher course in nanoscience and technology, University of Madras, Chennai	26 <sup>th</sup> Nov - 6 <sup>th</sup> Dec 2015
3.	Dr. Sowbagya lakshmi Prabha	Refresher course in nanoscience and technology, University of Madras, Chennai	26 <sup>th</sup> Nov - 6 <sup>th</sup> Dec 2015
4.	Dr.M.Vanjinathan	Refresher course in nanoscience and technology, University of Madras, Chennai	26 <sup>th</sup> Nov - 6 <sup>th</sup> Dec 2015
5.	Mr.A.Gopalakrishnan	Refresher course in Chemistry, Central University - Hyderabad	July 2015