



# BONDS

## DEPARTMENT OF CHEMISTRY

### HOLY CROSS COLLEGE (AUTONOMOUS), NAGERCOIL



#### FROM THE HEAD OF THE DEPARTMENT

#### VOLUME – I

**“Imagination is more important than Knowledge.  
Knowledge is limited, Imagination Enriches the world”  
– ALBERT EINSTEIN**

It gives me great pride to introduce the Chemistry Department newsletter “Bonds”. This newsletter presents an opportunity to recognize the acquirement of the faculty and students in academics, research and in extension activities. The activities reported narrates the partisanship of both faculty and students.

As Helen Keller says, “ Alone we can do little; together we can do much.” A collective effort can achieve more than what an individual can. Let’s stand united for the betterment of the future of the students. I thank my colleagues for their immeasurable efforts to help the department progress at a very steady pace.

#### FROM THE EDITOR’S DESK

##### *When atoms bond...*

The pride of being part of the Chemistry department is unexplainable. It gives immense joy to bring the first issue of our department newsletter “Bonds”. It shows the dedication of our students that, they are not just good in academics but also in extra-curricular activities. The initiatives taken by the faculty is well appreciated.

It focuses on seminar, job fair, outreach program, industrial visit, Reaching the Unreached Neighbourhood (RUN), Lab to land program and the importance of green chemistry for sustainable development. As you look through, you will realize, that the department had a very successful year.

#### HIGHLIGHTS OF THE DEPARTMENT



A long felt dream came true. The Research centre was blessed by Rev. Fr. Micheal Angelous on 25<sup>th</sup> June 2018. This paves the way for our students to pursue research in our department.

On 5<sup>th</sup> February 2019, the Board of Studies meet was organized. Dr.G. Leema Rose, HOD, Department of Chemistry was the chair person, Dr.M.Kamalutheen, Associate Professor, Department of Chemistry, Sadakathullah Appa College as the University nominee. Dr.V.Rama, Associate Professor & Head, Department of Chemistry, Sarah Tucker College and Dr. Chandran Head, Department of Chemistry, Vivekananda College, Agastheewaram were the subject experts and Ms.Monisha, Alumni of the Department had a fruitful and effective discussion on syllabus.



## THINK LIKE A PROTON AND STAY POSITIVE

### Academic Audit

The academic audit was held on 6<sup>th</sup> August 2018. Dr.C Anbarasi, Associate Professor, Jayaraj Annapackiyam College, Periyakulam, Dr. A. Rose Venis, Associate Professor, St. Joseph's College, Trichy and Dr.S.Mary Jelastin Kala, Assistant Professor, St.Xavier's College, Palayamkottai, helped our department with the audit. We could recognize the strengths of the curriculum.



### Seminars

The National seminar on "Recent advances in Chemistry" was organized on 29<sup>th</sup> August 2018 with two hundred and ten participants. It started with an interactive session with the special speaker Dr. Issac Shobana Raj, Associate Professor in the Department of Chemistry, Nesamony Memorial Christian College, Marthandam. We also had Dr.Amarajothi Dhakshanamoorthi, UGC Assistant Professor, Department of Natural Products Chemistry, Madurai Kamaraj University, Dr.Sreejakumari, Senior Scientist, NIIST, Thiruvananthapuram and Dr. Ramesh Rasappan, Assistant Professor, IISER, Thiruvananthapuram as resource persons.



### Endowment



On 27<sup>th</sup> July, an endowment lecture on "Pregnancy and Prenatal care" was organized. Dr. Dolly, the gynaecologist explained about women issues and the care that must be rendered to women.

The month of August was exciting and active. To begin with, on 6<sup>th</sup> August a session on "Nano particles and its applications" was organized. 160 students attended the session and gained knowledge on the preparation, properties and applications of nano particles. The session was handled by B.T.Delma, Research Scholar, from the Department of Chemistry, Holy Cross College, Nagercoil.



**Stress management** is beneficial to reduce blood pressure, heart disease, digestive troubles and many more physical ailments. It also helps to improve sleep, mental health, cognition and libido. On 26<sup>th</sup> September 2018, a lecture on "General Health and stress management" was organized. Dr.Sabesan was the speaker and 45 students were benefited.



### Industrial Visit & Tour



On 14<sup>th</sup> July 2018, forty five students accompanied by two faculty visited the Nanjil dairy plant, which helped the students experience milk processing and preparation of dairy products. We have organized one more industrial visit to the Southern Petrochemicals Industries Corporation Ltd. (SPIC), Tuticorin. The students had a field visit to St.Xavier's College of Nursing. The visit was successful as the students gained knowledge in sterilization, identification of blood groups and awareness on "Breast Cancer".



An educational tour is a part of academic experience. Educational tour helps students not only to learn their subject, but also develops team spirit. The tour was organized to Bangalore and Mysore for three days where 46 students participated.



### Job Fest



A Job Fest was organized by the department along with SPIC, Tuticorin. One hundred and forty-six students from all over Tamil Nadu attended the Job Fest and out of which nine candidates were selected from Holy Cross College, Nagercoil.

### Lab to Land

On 25<sup>th</sup> August, 2018, "Lab to Land" program was organised at Chunkankadai by the III UG students along with two faculty. It was a unique experience to the students. 40 participants were trained to make their day to day articles like washing powder, soap and phenoyl, etc... Since our "Lab to Land" program was a successful one, we conducted yet another program on 15<sup>th</sup> December 2018, at Karthigaivadali.



### Outreach Program



To make the students aware of the opportunities ahead, an outreach program was organized in collaboration with Indian Institute of Science Education and Research (IISER), Trivandrum, Kerala. We had guest speakers from different departments of IISER. They were Dr. K.R Arun, Assistant Professor, from the Department of Mathematics, Dr. Suhesh Kumar Singh, Assistant Professor from the School of physics, Dr. Ramesh Rasappan, Assistant Professor and

Dr.S.Gokulnath, Assistant Professor from the School of Chemistry. The "Outreach initiative" turned successful as students were motivated to pursue their higher studies in IISER.

### Association Meeting

The association meeting was inaugurated on 25<sup>th</sup> July 2018. Dr.A.K Sharmila, Assistant Professor gave a talk on "Green chemistry for sustainable development" which helped the students to gain knowledge on the advantages and need for "Green Chemistry". 170 students attended the meeting, which was informative and innovative. On 17<sup>th</sup> December 2018, a talk on "Chemistry in agriculture" was organized. One hundred and sixty students attended and gained awareness on "Merits and demerits of pesticides used in agriculture".



On 23<sup>rd</sup> September 2018, we celebrated the "Centenary birthday of Asima Chatterjee, an Indian Organic chemist. Oral and poster presentation competitions were conducted. The students got excited on the scientific contributions of Asima Chatterjee which inturn helped to develop their research aptitude.



Finally, at the end of the academic year, the valedictory meeting of Chemistry association was held on 26<sup>th</sup> February. Dr.R.Ragael Mabel Saroja, Associate Professor and Head of the Department of Chemistry, Scott Christian College (Autonomous) gave a talk on "Natural radiation, its merits and harmful effects". We look forward with great optimism for more accomplishments in the future.

#### *Editorial Board*

**Dr. G. Leema Rose, Head of the Department**  
**Dr. M. Anitha Malbi, Assistant Professor**  
**Dr. S. Ajith Sinthuja, Assistant Professor**  
**Dr.S. Lizy Roselet, Assistant Professor**

**Department of Chemistry**  
**Holy Cross College (Autonomous), Nagercoil**