



# St. Philomena's College

Autonomous College of University of Mysore  
Reaccredited by NAAC with 'A' Grade (3.58CGPA)  
A College of Excellence (UGC)

Post Box No. 30, Bannimantap, Mysore-570 015.

Tel. 0821-4240900, 4240912, 4240966, 4240951

Fax: 0821 4240950. Email: stphilos1946@gmail.com

## Report on the Two Day National Conference on “Emerging trends in Chemistry” held on 11 and 12 March, 2016 at St. Philomena’s College



Chief Guest Dr. Hanumanthachar Joshi, Principal of Saradavilas College of Pharmacy, Mysuru lighting the lamp to inaugurate the conference. From left - HOD of PG Chemistry Prof. Othbert Pinto, Rector Fr. Leslie Moras, Principal Prof. M . Krishnegowda, HOD of Biochemistry Mrs. Lydia Vandana, Vice Principal Fr. Bernard Prakash & Convenor Dr. Alphonsus D'Souza look on.

The National Conference began with an invocation by students. The Conference was inaugurated by lighting the lamp by the Chief Guest Dr. Hanumanthachar Joshi, Principal of Saradavilas College of Pharmacy, Mysore. Rev. Fr. Leslie Moras, Rector of St. Philomena’s College, Prof. M. Krishnegowda, Principal, Rev. Fr Bernard Prakash,

Vice Principal, Prof Othbert Pinto, HOD of PG Chemistry and Dr. Alphonsus D'Souza HOD of UG Chemistry were present.

Prof. M. Krishnegowda in his welcome address congratulated the Organisers – the Department of Chemistry for arranging the Conference and requested the participants to take part in the Conference actively.

The Chief Guest, Dr. Hanumanthachar Joshi while delivering the inaugural address said that the research in chemistry has crossed boundaries of multiple branches with new dimensions of applications. Observing that chemistry has a vast scope, he expressed concern over the decline in the number of research students in chemistry. He further stressed the need for a deeper understanding of the subject. The conferences of this type will help the students, research scholars and teachers to update their knowledge on the latest advancement in different thrust areas of chemistry, besides providing an excellent academic forum for the participants to understand the New Emerging Trends in Chemical Research. Rev. Fr. Leslie Moras in his Presidential Address called upon the participant teachers to motivate their students to take up research in basic science as the number of students taking basic science at undergraduate level has dwindled. It is the responsibility of every member of the student fraternity to take country and the world forward to cope up with present revolution in science and technology.

Ms. Asha, Asst. Professor of P G Department of Chemistry proposed the vote of thanks. In the first session Dr. Hanumanthachar Joshi spoke on “Recent Development of Chemotherapeutic Agents as Potential Drug Candidates for the Treatment of Dementia” and elaborated study on Desmodin Alkaloids which can be screened to be beneficial in the management of Neurodegenerative disorders particularly for Alzheimer’s disease.

In the second session by Prof. Gomathi Devi, Chairperson, DOS in Chemistry, Bangalore University spoke on the topic “A brief survey of semiconducting materials for photo electrochemistry” and shared her knowledge about the conversion and storage of solar energy using semiconductor electrolyte junction based on photo electrochemical cells.

In the third session, Dr. M. Pandurangappa, DOS in Chemistry Bangalore University enlightened the participants on the topic “Chemically modified carbon nanotubes as

electrochemical sensors: application to environmental monitoring” and explained the role of chemically modified electrodes in electro analysis used as material in fabricating reagent less electrochemical sensors.

For the last session of the first day the speaker Dr. Vommina V. Sureshababu, DOS in Chemistry, Bangalore University spoke on “Selenoxopeptides” and explained how the Selenoamides are gaining considerable interest as a pharmaceutical agent and as synthetic precursors for heterocyclics.

On the second day of the conference during the first session, Dr. Cletus J.M D’Souza, Emeritus Professor, Department of Biochemistry, University of Mysore, spoke on the topic “Nuclear Magnetic Resonance Spectroscopy: An analytical tool in Biology” wherein he elaborated on how newer techniques like multidimensional NMR and higher applied field have made NMR as one of the most versatile tools in the hands of Physicists and Chemists in understanding Biology.

In the second session Dr. B. Geetha Balakrishnan, Director, Center for Nano and Material Sciences, Jain University, Bangalore spoke on the topic “Perovskites; as promising Sensitizers over Quantum Dots and Dyes in Liquid Junction Solar Cells” wherein she explained about the enhanced efficiency of perovskite solar cells as a result of lanthanide induction into the electron transport layer of mesoporous titania.

During the third session Dr Amit Kumar, Associate Professor, DOS in Chemistry, Jain University, Bangalore spoke on the topic “Prospective therapeutic applications of Vanadium Complexes” briefing about applications of vanadium compounds, particularly in-vitro antiamebic activity and its application in the treatment of Diabetes mellitus, stimulating further developments in the coordination chemistry of vanadium.

In the last session of the day Dr. Mrinmoy De, Assistant Professor, Indian Institute of Science, Bangalore, on the topic “Effect of dimensions in Nano Materials” and shared his knowledge about the sensitivity of supramolecular interaction by virtue of their chemical and physical properties and how it has opened new windows in supramolecular chemistry using 2-D nanoscale materials.

The conference concluded with valedictory function. Dr. Alphonsus D’Souza, HOD U G department of Chemistry Welcomed, Dr.Shyla B S, Assistant professor of P G

Chemistry Coordinator read out the report of the conference, Dr. Mrinmoy De, Assistant Professor, Indian Institute of Science, Bangaluru, delivered the Valedictory Address, Prof. M. Krishnegowda gave his Presidential Address and Dr. Ravi J D Saldanha proposed the Vote of Thanks.

The conference programme was compered by Ms. Preetha D'Souza, Assistant Professor, PG Dept of Chemistry and Ms Angelina, Ms Srinidhi & Ms Supria of chemistry students. More than 250 participants attended the conference comprising of Research Scholars, Teachers and Students from different colleges in and outside Mysuru.

Coordinator

Convener