

## REPORT

The immense enthusiasm and tireless efforts by the students and young faculty members of the department, resulted into the first ever National Seminar on Frontiers in Chemical Sciences (NSFCS 2018), held on April 05-06, 2018. The event was a great success and the proceedings of the seminar is given below:

### DAY 1 (April 05, 2018)

**Registration:** The first day of the Seminar started with the registration of the participants at 09:00 AM. The registration kits, which consisted of an abstract book, a writing pad, a pen, food coupons, seminar identity card were distributed to all the registered participants. Total number of participants, including UG/PG students, research scholars, academic delegates and faculties from various degree colleges were around one hundred (100).

**Inauguration:** The inaugural programme started from 10:00 AM. The Seminar was inaugurated by Prof. Sadhan Chakraborty, Vice Chancellor, Kazi Najrul University; A. K. Dey, Principal, TDB College; Dr. U. K. Roy, HoD, Department of Chemistry, Kazi Najrul University and Dr. P. K. Das, Convener, NSFCS 2018. The inaugural programme was started with kindling the lamp of knowledge and wisdom by (i) the Prof. Sadhan Chakraborty, Vice Chancellor, Kazi Najrul University. The dignitaries on dais unveiled the abstract book of NSFCS 2018. On behalf of the organizing committee, the convener of the seminar, Dr. P. K. Das, welcomed the gathering to NSFCS 2018. The objective of the seminar was highlighted by the Vice Chancellor and A. K. Dey, Principal, TDB College in his address. They also congratulated the department for organizing the seminar. After that, Dr. P. K. Das, Head of the Department and convener of NSFCS 2018, mentioned the achievements of the department, since its birth. He mentioned that the department is offering 2 years M.Sc. programme in Chemistry since 2016

The convener concluded the inaugural programme by giving vote of thanks. He expressed sincere thanks to all the distinguished speakers, participants, all the sponsors for financial support, TDB College's administration for help, and all the concerned who contributed directly or indirectly for the seminar.

**Technical Session 1:** The session was chaired by Prof. Sankar Chandra Moi from National Institute of Technology Durgapur. He introduced Prof. Goutam Brahmachari [Visva-Bharati (A Central University), Santiniketan] to the audience as the first speaker of the session. He delivered plenary lecture on the topic "Room Temperature-based Catalyst-free Organic Transformations: An Emerging Frontier in Green Chemistry Research". There was a query session after the plenary lecture in which Prof. Brahmachari clarified the doubts of participants. The session was continued with the invited lecture of Dr. Balaram Mukhopadhyay, IISER, Kolkata. He presented his research work on "Excitement with Synthetic Carbohydrate Chemistry". The last speaker of the session was Dr. Sabyasachi Bhunia, Central University of Jharkhand, Ranchi. Dr. Bhunia is one of the young chemists, presented his studies on "Gold  $\alpha$ -Oxo Carbenoids: A Modern Reactive Intermediate for Organic Synthesis". All three speakers were felicitated by the session chair, Prof. Moi, after their respective lectures with a memento and certificate. The convener felicitated Prof. Moi for successfully chairing the first technical session.

**Technical Session 2:** All participants moved for lunch which was followed by poster session. Total 14 poster were presented in this session. Many of the research works were truly exciting and innovative in nature.

**Technical Session 3:** The second technical session was chaired by Dr. Sabyasachi Bhunia, Central University of Jharkhand, Ranchi. The first plenary lecture of the technical session 3 was delivered by Prof. Sankar Chandra Moi from NIT, Durgapur. He presented his talk on "Designing, Synthesis, Characterization of Pt(II) and Pd(II) based Anticancer Agents: Their Kinetics, Bioactivity and Theoretical Study". The doubts of the audience were answered by Prof. Moi. Dr. Bhunia invited Dr. Raj Bahadur Singh, Central University of Jharkhand, on dais to deliver his talk on "A Stereoselective Route to Tricyclo[5.2.2.01,5] Undecenones, Tricyclo[6.2.2.01,6] Dodecenones, and [n.3.3] Propellanes and Total Synthesis of Coprinol". The second technical session was a nice blend of advanced level inorganic and organic chemistry. All two speakers were felicitated by the session chair, Dr. Bhunia.

#### DAY 2 (April 06, 2018)

The second and last day of the seminar started with immense enthusiasm of the participants and organizers.

**Technical Session 5:** The session was chaired by Dr. P.K. Das, convener of NSFCS 2018. He introduced Asok K. Mukherjee (University of Burdwan) to the audience as the first speaker of the session. He delivered plenary lecture on the topic "Fullerenes: Structural Aspects and Some Inclusion Phenomena".

This session was then comprised of three invited lectures. The details are as below:

Prof. Bhubaneswar Mandal, IIT-Guwahati

Topic: Activation and Functionalization of Organic Molecules using N,N-dibromo-p-toluenesulfonamide

Dr. Paresh Nath Chatterjee, NIT-Meghalaya

Topic: Magnetically Recyclable Pd- $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> Nanocomposite as a Catalyst for Suzuki-Miyaura Cross Coupling reaction in Water

He covered the very basic of nanocatalysis which was a very helpful session for the students and young teachers.

Dr. Sadhucharan Mallick, Indira Gandhi National Tribal University

Topic: Chitosan Matrix Supported Metal Nanoparticle Composites Materials for Therapeutic Applications

All three speakers were felicitated by the session chair, Dr. P. K. Das, convener of NSFCS 2018, after their respective lectures with a memento and certificate.

**Technical Session 6:** The last session was the oral presentation by various Young Scientists.

**Valedictory Session:** The distinguished speakers and participants shared their experiences on NSFCS 2018. The participants mentioned how much they are benefited by the seminar. They were overwhelmed by the hospitality of the organizers and shared some fruitful suggestions for future. The convener, Dr. P. K. Das, declared the closure of NSFCS 2018. at the end.

*Parimal Kumar Das* 18.12.18  
**Dr. Parimal Kumar Das**  
Associate Professor  
Convener, NSFCS - 2018  
Department of Chemistry  
Trivenidevi Bhalotia College  
Raniganj, (W.B)