

Report of the Visit and Departmental Seminar on “CSIR-CSMCRI membranes for water purification” by Dr. N. K. Saha.

Date: 24th January, 2019

Time: 14:00-17:00 hrs.

Speaker: Dr. Nirmal Kumar Saha (CSMCRI, RO membrane division)

Seminar arranged by: Dr. Swarnali Nath Choudhury (HOD Chemistry, FST, IUT)

Host: Mr. Bilash Chandra Roy (student: M.Sc. Chemistry)

Schedule:

- ❖ Arrival of the guest at IUT and informal meeting with departmental faculties: 13:30 hrs.
- ❖ Lunch at guest house.
- ❖ Seminar start: 14:00 hrs.
- ❖ Felicitation by HOD Chemistry, Dr. Swarnali Nath Choudhury
- ❖ Welcome speech by HOD Chemistry, Dr. Swarnali Nath Choudhury
- ❖ Short introduction of the speaker of the day Dr. N. K. Saha by our host Mr. Bilash Chandra Roy
- ❖ Beginning of the technical talk: 14:30 hrs.
- ❖ Concluding remarks and interaction sessions: 16:00 hrs
- ❖ Informal Lab visit: 16:15 hrs.
- ❖ Informal session with the departmental faculties: 16:45 hrs.

Details of the audience present:

Faculties: Prof. Soumendra Nath Bandyopadhyay

Dr. Ganesh Chandra Paul

Dr. Sujan Dutta

Dr. Satyajit Mondal

Prof. Ashim Paul

Lab assistant: Mr. Santanu Chakraborty

Number of students present: 71 (M.Sc. Chemistry, B.Sc. Chemistry, B. Tech CE 3rd year, B. Tech CE 1st year)

About the speaker:

Dr. Nirmal Kumar Saha is an eminent scientist from CSMCRI, Gujrat, under CSIR.

Background:

He was contacted by Dr. Swarnali Nath Choudhury, HOD Chemistry to share his first hand experience and knowledge in the field of membrane chemistry and polymers relating water treatment processes.

Magnet of the Seminar:

It was an interactive learning session aimed for the budding students, both from chemistry and engineering and engineering backgrounds. This topic of research and development encompasses multidisciplinary approach and aspects of membrane filtration technology were discussed as developed by CSMCRI. Basics and present day cutting edge technologies were introduced to the audience with applications all over India and even abroad. Scopes of research and development even in industrial scale were discussed.

Points discussed in meeting:

1. Department of Chemistry will be in contact with Dr. N. K. Saha for Double distilled water purifier and de-ionized water machine for acquirement for our lab. As, CSMCRI cannot sell unit(s), a way out (may be as research facility provision) may be thought in future.
2. Purification for drinking water for the campus may be done under their proposed societal mission via local DST committee.
3. For iron removal and campus water treatment, Dr. Swachha Majumdar from CGCRI lab, Kolkata may be contacted. Details of his contacts will be sent by Dr. N. K. Saha if necessary.
4. For upcoming IP (summer project), provision for a few students may be made into CSMCRI, Gujrat. (IUT may have to provide monitory support).
5. For final semester M.Sc. project, co-guide may be provided from CSMCRI, so that some of the experimental part can be done from their laboratory facilities.
6. An academic visit to the local water treatment plant can be arranged if needed for a day for the interested students.
7. For research purpose, samples can be sent to them via post along with payment for the facility desired (by demand draft preferably). There are provisions for very low fees if opted by a student (via university).
8. Regarding bio-related practical, he may provide a few chemistry lab friendly experiments when he gets back to his laboratory in CSMCRI.

9. It was aptly indicated that membrane science can be included in polymer chemistry as a special paper in M.Sc.
 10. Dr. N. K. Saha remarked that at present, our way of application oriented teaching and basic experiments chosen in practical chemistry is good in terms of in-depth knowledge acquiring.
- ✓ Dr. Swarnali Nath Choudhury kept a visiting card of the dignitary along with mobile number for further contact.

Photographs of the session:



