

**A report on the Lecture Workshop on “Recent Trends in Synthesis
of Chemical Compounds and their application in Science and Technology”**

held from 5th -7th May, 2014.

A Lecture Workshop on “Recent Trends in Synthesis of Chemical Compounds and their application in Science and Technology” was held from 5th -7th May, 2014, organized by the Department of Chemistry, NIT, Silchar and sponsored by Three Academies of Sciences (Indian National Science Academy, Indian Academy of Sciences and National Academy of sciences).

The workshop started according to the programme schedule, circulated in advance to all concerned.

The inaugural ceremony was held on 5th May, 2014 in the morning at 10 am with the lighting of the lamp by respected dignitaries-Prof. N.V. Deshpande, Director, NIT Silchar, Prof. S. Dasgupta, Vice Chancellor of Assam University, Prof. Abu Taleb Khan, Vice Chancellor, Aliah University, Kolkata, Prof. Brindaban Chandra Ranu, Professor, Department of Organic Chemistry, IACS, Kolkata, Dr. Tapan Kanti Paine, Associate Professor, Department of Inorganic Chemistry, IACS, Kolkata.

Dr. S.S. Dhar, Assist. Professor, Department of Chemistry, NIT, Silchar welcomed all the participants and dignitaries as well as offered a brief introduction on the theme and purpose of the workshop.

All the dignitaries along with Prof. A.K. Sil, Ex. HOD, Department of Chemistry, NIT, Silchar graced the occasion by delivering brief speeches.

The inaugural programme was completed successfully with the vote of thanks by Dr. P. Barman, HOD, Department of Chemistry, NIT, Silchar and coordinator of the workshop. Lecture sessions started, immediately after the inauguration, with the lecture delivered by Prof. Brindaban Chandra Ranu, Professor, Department of Organic Chemistry, IACS, Kolkata. Lecture sessions of the 2nd half of 5th May to 1st half of 7th May, 2014 were held with full enthusiasm and seriousness according to the schedule of the programme. Lectures were delivered by different speakers on the topics mentioned below.

MON, 5th May 2014

11:00-12:15 Lecture by Prof. B.C. Ranu:

Green Tools and Green Catalysis in Organic Synthesis-Part I

12:15-1:30 Lecture by Dr. T.K. Paine

Probing Dioxygen Activation mechanism in nanohemeoxygenases by Biomimetic-Iron Complexes

02:30- 03:45 Lecture by Prof. B C Ranu

Green Tools and Green Catalysis in Organic Synthesis- Part II

03:45- 05:00 Lecture by Dr. T.K. Paine

Functional modeling of C-C bond cleaving nonheme iron oxygenases

TUES, 6th May 2014

10:00 -11.15 Lecture by Prof. A.T.Khan

Recent Trends of Multi-component Reactions (MCRs) in Organic Synthesis

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11:45 - 01:15 Lecture by Prof R.C. Deka

Structure and reactivity of Zeolites and Their application as green catalysts

02:15-3:30 Lecture by Prof. A.T.Khan

Conceiving an idea” and its journey towards benefaction to the Mankind

WED, 7th May 2014

09:00 -10:15 Lecture by Prof R.C. Deka

Basics of computational chemistry

10:15 - 11:15 Lecture by Dr. Sujit. Ghosh

Materials at the Nanometer Length Scale: From the Roman Ages to Recent Advances

11:45- 01:00 Lecture by Dr. Sujit. Ghosh

Surface Plasmon Oscillation of the Small Metallic Particulates

The workshop was attended by a large number of participants (students, Research scholars, faculty member) of different institutions like Assam University, Cachar College, GC College, Karimganj College etc.

A total number of 146 participants were registered for the workshop. However, the lecture sessions from 5th. To 7th. May, 2014 were attended by 135-140 participants on the average.

The three day programme created a lot of interest in research which imparted a lot of new ideas and knowledge to the young students and research scholars who freely participated in the discussions whole heartedly and the speakers offered all possible solutions to their problems/queries. The presentations of all the speakers were very attractive with full of recent information. The whole audience was enthralled by their style of presentation and friendly behavior. After each lecture, all the participants offered a big hand of applause which showed the influence of the programme on the participants.

The concluding ceremony of the workshop was held in the second session of 7th May, 2014 by organizing valedictory function.

The valedictory function was graced by Prof. R.C. Deka, Tezpur University, Dr. S.K. Ghosh, Assam University and Prof.A.K.Sil, Ex. HOD, Department of Chemistry, NIT, Silchar. The valedictory function was chaired by Prof. S.B. Paul of Assam University, Silchar . At the outset Dr. S.S. Dhar, Assist. Professor, Department of Chemistry, NIT, Silchar, welcomed all the participants and the distinguished guests of the programme. Prof. R.C. Deka, Dr. S.K. Ghosh, Prof.A.K.Sil delivered a brief but useful speech highlighting significant and important points by discussion, held during different sessions of the workshop. All of them urged the participants to utilize the knowledge, gained by them, and to keep in touch with the experts for interaction in future. Prof. S.B. Paul, chairman of the function, delivered a very encouraging talk and advised students and Research Scholar for maintaining standard of education. Participants (1-2 of each participating Institute), on request, spoke in the function giving their feedback about the workshop. All of them expressed their opinion freely. It appeared that they were very happy and gained a lot of knowledge from the workshop. A little later, certificates were handed over to all the participants by the organizing committee. The workshop ended successfully with vote of thanks, offered by Dr. P. Barman, HOD, Department of Chemistry, NIT, Silchar.

A Lecture Workshop on “Recent trends in synthesis of Chemical Compounds and Their Application in Science & Technology”

Organized by Department of Chemistry, NIT Silchar

Sponsored by Three National Science Academies: IASc, INSA, NASI

Date : 5-7th May-2014

Program of the workshop

MONDAY, 5th May 2014

08:30 - 09:30 Registration

09:30 -10.30 Inauguration

10:30-11:00 High Tea

11:00-12:15 Lecture by Prof.B C Ranu

12:15-01:30 Lecture by Dr. T.K. Paine

01:30- 02.30 Lunch Break

02:30 - 03:45 Lecture by Prof. B C Ranu

03:45- 05:00 Lecture by Dr. T.K. Paine

TUESDAY, 6th May 2014

10:00 -11.15 Lectures by Prof. A.T.Khan

11:15- 11.45 Tea Break

11:45 - 01:15 Lecture by Prof. R.C. Deka

01:15- 02:15 Lunch Break

02:15-3:30 Lecture by Prof. A.T.Khan

WEDNESDAY, 7th May 2014

09:00 -10.15 Lecture by Prof. R.C. Deka

10:15 - 11:15 Lecture by Dr. Sujit Ghosh

11:15- 11.45 Tea Break

11:45-01.00 Lecture by Dr. Sujit Ghosh

01:00- 02:00 Lunch Break

02:00-3:30 Validation



A group photograph of the participants with resource persons, chief guest Prof. S.B. Paul, Assam University and chairman and co-ordinator of the workshop.