



SECOND INDO-US WORKSHOP ON GREEN CHEMISTRY

7-8 January, 2006
Delhi

Sponsored By:



www.chemistry.org/greenchemistryinstitute



Organized by
Department of Chemistry
University of Delhi
&
The Energy and Resources Institute
Towards sustainable and efficient use of world's natural resources
<http://www.teriin.org>
Venue: Hotel Connaught, 37 Shaheed Bhagat Singh Marg, New Delhi-110 001



The area of Green Chemistry has been introduced as a way of using science and engineering to address environmental issues in an economically profitable manner. Since its introduction in the early part of the 1990s, there has been significant and dramatic evidence to support the claim that Green Chemistry is an important area for science and technology to pursue for the benefit of the environment, the industry and the general public.

There has been a marked surge of interest in Green Chemistry in India. A recently constituted Green Chemistry Chapter of the American Chemical Society-Green Chemistry Institute in the Department of Chemistry, University of Delhi, has already started working to popularize Green Chemistry in India. As a part of this effort, a National Symposium on Green Chemistry was organized by the Department of Chemistry, University of Delhi in January 1999 to bring together all those who are practicing Green Chemistry in India for the first time. For Green Chemistry Education, a refresher course was organized for college teachers by the Centre for Professional Development in Higher Education in the University of Delhi. Inspired by overwhelming response of participants in these events, a IUPAC International Symposium on Green Chemistry was organized in 2001 by the Department of Chemistry, University of Delhi, which proved to be an excellent event for scientists' world over to interact on one common platform. One significant theme that has emerged out of these meetings is the need for additional focused training and workshops for educators and researchers in India to convene so that mechanisms for the principles of green chemistry can be instituted in the laboratory and the classroom and eventually the industry. As a first step towards this, the first workshop on Green Chemistry sponsored by Indo-US S&T Forum was organized in November 2003 and this workshop was conducted with the help of Green Chemistry Institute, Washington in which the Nepal Green Chemistry Chapter also participated. This workshop was addressed by world leaders in Green Chemistry from US including Professor Paul Anastas (known as the father of Green Chemistry). A panel of these world leaders recommended that rather than the creation of one centre of excellence in Green Chemistry in India, coordination centre between the networks of different centers is needed. They remarked that the excellence in coordination and leadership shown in this workshop can act as a template for the networking. The panel further recommended that this event be built into a network where all participants drawn from different Institutes, Universities and Industries must be involved in furtherance of Green Chemistry, and Green Chemistry Chapter in the Department of Chemistry, University of Delhi should act as a nodal center to initiate and sustain such coordinated activities.

As a follow-up of these recommendations, the Indian Green Chemistry Chapter began working for networking and Green Chemistry education. To sustain such activities a proposal for the Indo-US networking was submitted to American Chemical Society under GCI-DEN Grant for developing countries. It is heartening to note that the Green Chemistry Institute of American Chemical Society approved the proposal and suggested to activate the networking process by organizing a workshop in January 2006.

The greatest barrier to the wide spread adoption of Green Chemistry is the lack of general knowledge and understanding of the scientific principles, methodologies and benefits that comprise Green Chemistry. In addition, there is a need to establish or elucidate mechanisms by which partnerships between India and the US can work in the area of Green Chemistry.

Therefore this Second Indo-US Workshop on Green Chemistry is designed to involve the participants in Green Chemistry Network by:

- **Achieving mutual familiarity with the basic principles of Green Chemistry.**
- **Identifying areas where scientific collaboration between the US and Indian scientists can take place on Green Chemistry for sustainability ranging from fundamental research to real-world application.**
- **Assisting in building a Green Chemistry educational capacity in India by ‘training the trainers’.**
- **Focusing on real-world applications of Green Chemistry and also building industry-university-government partnerships**

There will be a two-day session devoted to the training of participants. This training has been designed not just to expose the participants to the concepts, principles, and methodologies of Green Chemistry but also to empower them to bring this new knowledge back to their working place. The structure of the training has been designed to provide them with the knowledge and basic tools they need to begin planting the seeds of Green Chemistry within their own educational structure.

CRITERIA FOR SELECTION

Academic Committee will select 30 participants from different institutions, industries and organizations. An important part of the success of this educational initiative is the wise and strategic selection of the individuals to participate in the sessions. The criteria for selection are as follows:

- Participants will be expected to possess a basic knowledge of science and environment and have connection with any institute, industry and Government bodies entrusted with the responsibility of maintenance of Green environment.
- Participants with formal connection to an educational institution, industry or organizations will be given higher priority than those without. Established infrastructure enhances the chances of successfully building a Green Chemistry Network and is considered valuable as selected participants will be offered the membership of Indo-US Green Chemistry Network.

Applicants are expected to route their papers through appropriate channels though it may not be mandatory.

Academic Committee

Professor **John C. Warner**

Director, Center for Green Chemistry, School of Health and the Environment
University of Massachusetts Lowell

Prof. Mihir K. Chaudhuri, FNA

Dean Research & Development, IIT Guwahati

Prof. B.S.Garg

Department of Chemistry
University of Delhi

Dr. Alok Adholeya,

Head,

Centre for Bioresources and Biotechnology
TERI School of advanced studies TERI

APPLICATION

To apply, please send a letter of interest along with CV indicating the following:

1. Your formal educational training.
2. Your affiliation.

The application should be sent to:

ORGANIZING SECRETARY

Dr. R.K. Sharma

Incharge International Chapter of The American Chemical Society –Green Chemistry Institute (GCI)

www.chemistry.org/greenchemistryinstitute

Department of Chemistry

University of Delhi

Delhi-110007

Tel/Fax: 91-11-27666250; 55909774(Res.)

Email: rksharma@vsnl.com ; rksharmagreenchem@hotmail.com;

rksharmagreenchem@gmail.com

Mobile: 9868549560

Applications must be received by December 15, 2005.

Registration Fee (non refundable):

Academia: Rs. 5000 (Foreign Participants US\$ 300);

Industry & Private Organizations: Rs. 10000(Foreign Participants US\$500)

The registration fee for the participant will cover the workshop material including the proceedings, lunches and tea / coffee during lecture breaks on 7-8 January 2006 and banquet dinner on 7th January. The registration fee does not include accommodation charges. The participants are encouraged to make their own arrangements for stay.

PATRON

Professor Deepak Pental

Vice-Chancellor
University of Delhi

Prof. Paul T. Anastas

Director, Green Chemistry Institute
Washington

Dr. R.K. Pachauri

Director-General
TERI

CHAIRMAN

Prof. N.K. Kaushik

Head,
Department of Chemistry
University of Delhi

PRESIDENT

Professor John C. Warner

Director, Center for Green Chemistry, School of Health and the Environment
University of Massachusetts Lowell
www.greenchemistry.uml.edu

Professor Mihir K. Chaudhuri, FNA

Dean Research & Development, IIT Guwahati
http://www.iitg.ernet.in/scifac/chem/public_html/mkcweb/index.html

CONVENOR

Professor B.S. Garg

Department of Chemistry
University of Delhi

Dr. Alok Adholeya,

Head,
Centre for Bioresources and Biotechnology
TERI School of advanced studies TERI

ORGANIZING SECRETARY

Dr. R.K. Sharma

Incharge International Chapter of The American Chemical Society –Green Chemistry Institute (GCI)
www.chemistry.org/greenchemistryinstitute
Department of Chemistry
University of Delhi

Advisory Committee

Prof. S. Chandrasekaran, FNA
Chairman, Div.of Chemical Sciences
Indian Institute of Science, Bangalore

Prof. S.Jayarama Reddy
Vice Chancellor
Sri Venkateswara University, Tirupati

Dr. S. Natesh
Adviser, Department of Biotechnology, New Delhi

Mr. Sushil Mehta
Director, Ranbaxy Fine Chemicals Limited, Delhi

Dr. Brindaban C. Ranu
Professor & Head, Department of Organic Chemistry
Indian Association for the Cultivation of Science, Kolkata

Dr. Sanjeev Sogani
Head-Reagent Research, Ranbaxy Fine Chemicals Limited, Delhi

Dr.B.M.Choudary
Managing Director, Ogene Systems (I) Pvt. Ltd
Hyderabad

Prof. K. Muralidhar, FNA
Department of Zoology, University of Delhi

Dr. R. Brakaspathy
Department of Science and Technology, New Delhi

Dr. (Mrs.) Suman Govil
Department of Biotechnology, New Delhi

Dr Archana Sharma
Editor, Indian Journal of Chemical Technology, CSIR, New Delhi

Dr. Kshipra Misra,
Department of Science And Technology(DST), New Delhi

Local Organizing Committee

Prof. A.K.Singh, IIT Delhi
Prof. P.N. Kapoor, Delhi University
Prof. A.K. Bhatnagar, Delhi University
Prof. S.K. Sindhvani, Delhi University
Prof. A.N. Maitra, Delhi University
Prof. V.S. Parmar, Delhi University
Prof. Ramesh Chandra, Delhi University
Prof. Pavan Mathur, Delhi University
Prof. S.M.S. Chauhan, Delhi University
Prof. A.K. Bakshi, Delhi University

Prof. Gurmeet Singh, Delhi University
Prof. S.C. Jain, Delhi University
Prof. R. Kakkar, Delhi University
Prof. J.M. Khurana, Delhi University
Prof. M. Kidwai, Delhi University
Dr. Harish Chandra, Delhi University
Dr. Ashok K. Prasad, Delhi University
Dr. Sunita Dhingra, Miranda House DU
Dr. Indu Tucker Sidhwani, Gargi College DU
Dr. Anju Srivastava, Hindu College DU
Dr. R.K.Suri, Ministry of Environment
Ms. Rita Khanna, Ministry of Environment
Dr. Aparna Dhawan, NABL, DST
Dr. R.K.Seth, Delhi University
Dr. D.Sahoo, Delhi University
Dr. Veena Aggarwal, Delhi University
Dr. Man Mohan, Delhi University

For any enquiry regarding workshop please contact:

ORGANIZING SECRETARY

Dr. R.K. Sharma

Incharge International Chapter of The American Chemical Society –Green Chemistry Institute (GCI)

www.chemistry.org/greenchemistryinstitute

Department of Chemistry, University of Delhi

Delhi-110007

Tel/Fax: 91-11-27666250; 55909774(Res.)

Email: rksharma@vsnl.com ; rksharmagreenchem@hotmail.com;

rksharmagreenchem@gmail.com

Mobile: 9868549560

Official Travel Coordinator:

G.V.R.Shastri

Manager - Conferences & Business Development

Travel Corporation India Pvt., Ltd.,

505, Newdelhi House,

27, Barkhmba Road,

New Delhi. India

pin.1100001