

Theme meeting on “Non-Nuclear Applications of Deuterium/Heavy Water” April 30, 2019, DAE Convention Centre, Anushaktinagar, Mumbai

*Organized by : Heavy Water Board (HWB)
in association with: Indian Institute of Chemical Engineers (IICHe), MRC & Indian Chemical Council (ICC), Mumbai*

Heavy Water Board (HWB) is organizing a one day theme meeting on “Non-Nuclear Applications of Deuterium / Heavy Water” in association with Indian Institute of Chemical Engineers (IICHe) and Indian Chemical Council (ICC).

About the meeting

Beginning from its discovery, potential use of Deuterium and Heavy Water in non-nuclear fields has been realised and in the past decade use of deuterium in various non-nuclear applications has gained momentum throughout the world. Emerging non-nuclear applications of Deuterium and its compounds across the world has opened new avenues for HWB and Indian Industries. HWB has been promoting the use of Heavy Water in non-nuclear areas as it is a great opportunity to serve the society. India being the largest producer of Heavy Water, it is our endeavour that Indian Industry should be a leader in deuterium chemistry globally. The meet will consist of invited talks from eminent scientists, technocrats from Academic & Industry and will cover the broad areas viz. Global scenario in Heavy Water availability & regulatory aspects, various non-nuclear applications of deuterium, scope of collaborations, roadmap etc.

This meeting will provide a cross disciplinary forum for discussing and debating the above mentioned issues and will also open the gateway to the emerging area of non-nuclear applications of heavy water and deuterium.

Venue: DAE Convention Centre, Anushaktinagar, Mumbai

Program Schedule

Time	Program Description
08:30 to 09:30	Registration
09:30 to 10:15	Opening Function*
10:15 to 11:00	Networking & Hi-Tea
11:00 to 13:00	Session-1
13:00 to 14:00	Lunch
14:00 to 15:00	Session-2
15:00 to 16:00	Session -3
16:00 to 17:00	Exhibition Visit + Hi-Tea
15:00 to 16:30	Industry – Academy Interaction program
19:00 to 20:30	Dinner at Acres Club

***Opening Function Details:**

Chief Guest: Dr. S. Banerjee, Former Chairman, AEC & DAE Homi Bhabha Chair

Distinguished Guest: Prof. G.D. Yadav, Vice Chancellor, ICT, Mumbai

Session-1 : Activities by HWB and other DAE Units			
Talk	Topic	Speaker	Time
Talk 1	Journey of Heavy Water Board in fifty Years	Shri. S. K. Nayak, Director (T) HWB	11:00 – 11:30
Talk 2	Non- Nuclear Applications of Heavy Water / Deuterium & DDW	Shri. V. K. Khilnaney, Director (O) HWB	11:30 – 12:00
Talk 3	Role of Deuterium Depleted Water in Cancer	Dr. Abhijit De, ACTREC	12:00 – 12:30
Talk 4	Marketing Aspects of Deuterium Labeled Compounds- an overview	Shri. N. Jayachandran, BRIT	12:30-13:00
Session-2 : Collaboration with Institutes			
Talk	Topic	Institute	
Talk 5	Deuterated molecules in Medicinal Chemistry-Current Scenario and Future Prospects	Dr. Mariam Degani, ICT, Mumbai	14:00 – 14:20
Talk 6	“Deuterium incorporation Approach” as an effective tool towards better medicines	Dr. D. S. Reddy NCL, Pune	14:20- 14:40
Talk 7	Role of Deuteration in Altering Pharmacokinetics of Antineoplastic Drugs	Dr. Navnit Prajapati, MS University	14:40-15:00
Session-3: Collaborations with Indian Industry			
Talk	Topic	Organization	
Talk 8	Role of Deuterium in Medicinal Chemistry	Dr. Sankar Iyer, M/s SYNMR	15:00 – 15:15
Talk 9	Role of deuterium in Drug development	Dr. Ranjith Gulge, M/s Clearsynth	15:15-15:30
Talk 10	Deuterium Gas production and its uses	Shri. M. D. Thakker, GM, HWP (Baroda)	15:30 – 15:45
Talk 11	Way forward towards Non Nuclear Applications of Deuterium / Heavy Water	Shri. M. Bhaskaran, RRF & Formar CE,HWB	15:45 – 16:00

Industry – Academy Interaction program:

As synthesis of Deuterated Compounds is a new upcoming area with huge space of entry & challenge for Chemical Engineers, an Industry – Institute interaction program for Chemical Engineering students from various colleges/institutes is being arranged. The Interaction Session will include Experienced Engineers and Chemist involved in the said domain.

The program schedule of Industry – institute Interaction is as listed below:

Time	Program
15:00 to 15:15	Arrival of students to the venue & seating in hall
15:15 to 15:40	Movie on HWB Activities
15:40 to 16:00	Interaction session
16:00 to 16:30	Visit to exhibition stall
