

Seminar on

# *Recent Developments in Catalysis in Process Industry*



March 21-22, 2023

Auditorium, IChE-NRC  
New Delhi

Organised by



Indian Institute of Chemical Engineers  
(Northern Regional Centre)

In association with



Fertiliser Association of India

## **INDIAN INSTITUTE OF CHEMICAL ENGINEERS**

Indian Institute of Chemical Engineers is the apex professional society of Chemical Engineers in India, popularly abbreviated as IChE. The IChE is a confluence of streams of professionals from academia, research institutes and industry. It provides them the appropriate forum for joint endeavours, hand in hand, to work for human well-being through application of Chemical Engineering and Allied Sciences. IChE has more than 55 Regional Centres operating in the country. The Northern Regional Centre covers the territorial limits of towns around Delhi like Faridabad, Ghaziabad, Gurugram, Noida, Aligarh, Panipat and Sonapat. The centre is abbreviated as IChE-NRC.

## **FERTILISER ASSOCIATION OF INDIA (FAI)**

Fertiliser Association of India (FAI) is association of all manufacturers, distributors, importers and marketers of fertilizers, technology and equipment suppliers and research institutes. It has both Indian and overseas members. Amongst its multifarious activities, FAI is engaged in performance monitoring of fertilizer plants in regard to energy efficiency, environment & safety performance, etc. FAI is also engaged in human resource development in fertilizer sector by way of organizing training programmes, seminars, workshops and group discussions.

## **ABOUT THE SEMINAR**

Production and use of catalyst has helped the mankind for last 150 years. Catalyst is the single most important entity in making chemical reactions faster and changing conditions to make these reactions commercially useful. Catalysts have helped to increase conversions, purity of products and helping to carry our reactions under moderate operating conditions of temperature and pressure. Catalyst may or may not participate in the reactions. Use of catalyst in refineries and petrochemical and fertilizer industry has made it possible to produce large number of products which are required to meet the essential requirements of food, shelter and clothing, and improve the standards of living of mankind. Sulphuric acid is one of the largest and oldest chemicals produced in the world. It's large scale production would not have been possible without Vanadium Pentoxide catalyst used in contact process.

Production of hydrogen through catalytic reforming of hydrocarbons with nickel catalyst has helped to upgrade the heavy fractions of crude to produce more useful fuels and thus gainful utilization of bottom of the crude oil barrel. Role of catalyst in synthesis of ammonia at industrial scale through Haber-Bosch process has changed the face of agriculture in the world. This is one catalytic process which is helping to produce food for 40% of world population. Catalytic treatment of auto emission has helped us to breathe easier in highly polluted environment.

There are varieties of petrochemicals produced through catalytic process. Developments in catalyst science over the years have helped to improve yields, reduce energy consumption and reduce emission. These developments include incorporation of promoters, increase in surface area per unit volume, increase in mechanical strength, increase in catalyst life and better regeneration of catalyst where it takes part in reaction. With focus on climate change, catalyst can help to further decarbonize the chemical process and move towards green chemistry.

## COVERAGE

The seminar provides opportunity to senior level professionals from Chemical Process Industry like Refineries, Petrochemicals, Petroleum, Fertilizers, Specialty Chemicals etc., R&D organisations, vendors, Government departments, academia and experts from the related fields to review the latest developments in Catalysts wherein leading Catalysts manufacturers, industry representatives and researchers have been invited to make presentation. Apart from this, presenters from industry would be sharing their experiences of operations with various catalytic processes.

## IMPORTANT INFORMATION

### TIME & VENUE

**21<sup>st</sup> & 22<sup>nd</sup> March 2023**

**09:30 A.M. – 05:00 P.M.**

**Auditorium, Indian Institute of Chemical Engineers-NRC,  
C-27, Qutab Institutional Area,  
New Delhi 110016**

### REGISTRATION

**(Tuesday) 21<sup>st</sup> March, 2023**

**(08:30 am – 09:30 am)**

The registration can be done through Google Forms via link:

<https://forms.gle/gS1T9V31FPQ8Dp81A> or hard copy attached.

The payment to be done offline / online as per the details given in the Google Form/ Registration Form.

**Registration will be on first come first serve basis due to limited capacity of hall.**

(The Delegate fee includes Seminar papers, lunch, tea/coffee and refreshments during seminar sessions on both days. Please note that delegates have to make their own arrangements for travel and stay). Substitute delegates are permitted with prior intimation and approval by the Secretariat.

REGISTRATION FEE		
<b>Industry Sector</b>	<b>Rs. 5000</b>	<b>+ 18% GST</b>
<b>Academic/Research Institutes</b>	<b>Rs. 1000</b>	<b>+ 18% GST</b>
<b>Students</b>	<b>Rs. 500</b>	<b>+ 18% GST</b>

## SPONSORSHIP OPPORTUNITIES

CATEGORY	Amount (₹)	BENEFITS TO SPONSORS
<b>PLATINUM SPONSORS</b>	5 lakhs + GST	<ul style="list-style-type: none"> <li>• <i>Display and acknowledgement at prominent places</i></li> <li>• <i>Five Complimentary delegates</i></li> </ul>
<b>GOLD SPONSORS</b>	3 lakhs + GST	<ul style="list-style-type: none"> <li>• <i>Display and acknowledgement at prominent places</i></li> <li>• <i>Three Complimentary delegates</i></li> </ul>
<b>SILVER SPONSORS</b>	2.0 lakhs + GST	<ul style="list-style-type: none"> <li>• <i>Display and acknowledgement at prominent places</i></li> <li>• <i>Two Complimentary delegates</i></li> </ul>

### OFFLINE PAYMENTS

All payments are to be made through crossed cheque / Demand Draft in favour of "Indian Institute of Chemical Engineers", payable at New Delhi.

### ONLINE PAYMENTS

Bank details for online transfer of delegate fee -

Name of Beneficiary	INDIAN INSTITUTE OF CHEMICAL ENGINEERS
PAN No.	AAAAI1126Q
Bank Name	CANARA BANK
Branch Code	0346
Bank Account Number	0346101051089
MICR Number	110015013
IFSC Code	CNRB00000346
GST Number	07AAAAI1126Q1ZM

### Address for submitting nominations and for all your queries:

Mr. R.P. Luthra  
 Director Administration  
 Indian Institute of Chemical Engineers  
 (Northern Regional Centre)  
 C-27, Qutab Institutional Area,  
 New Delhi 110016  
 Phone: 011-41422060, +91 9891177248  
 Email: [director.iichenrc@gmail.com](mailto:director.iichenrc@gmail.com)

Seminar on  
**“Recent Developments in Catalysis  
in Process Industry”**  
**March 21-22, 2023**

at  
Auditorium, IICChE-NRC, New Delhi

Organised by



Indian Institute of Chemical Engineers  
(Northern Regional Centre)

In association with



Fertiliser Association of India

## REGISTRATION FORM

Name of Organisation/ Institute:.....

Category of Registration (Please tick):

☐

Industry

☐

Academia/  
Research Institutes

☐

Student

Address for Correspondence: .....

.....

.....

GST No. .... Contact no: ..... Email: .....

Participant's Name	Designation	Email ID	Mobile No.
1.			
2.			
3.			
4.			
5.			

## REGISTRATION FEE

<b>Industry Sector</b>	<b>Rs. 5000 + 18% GST</b>
<b>Academic/Research Institutes</b>	<b>Rs. 1000 + 18% GST</b>
<b>Students</b>	<b>Rs. 500 + 18% GST</b>

### FEE PAYMENT MODE:

**OFFLINE:** Amount Rs. ....

Demand Draft / Cheque No.: ..... Dated: .....

Drawn in favour of '**Indian Institute of Chemical Engineers**', payable at New Delhi

**ONLINE:** Amount Rs. ....

NEFT / RTGS Reference No. & date: .....

## BANK DETAILS FOR ELECTRONIC PAYMENT

1. Name of Beneficiary	<b>INDIAN INSTITUTE OF CHEMICAL ENGINEERS</b>
2. Address of Beneficiary	C-27, QUTAB INSTITUTIONAL AREA, NEW DELHI - 110016
3. Bank Name & Address	CANARA BANK ADDRESS- C-10, Community centre, Opp. to IIT main gate, SD Area, New Delhi-110016
4. Bank Account Number	<b>0346101051089</b>
5. Account Type	Saving A/c
6. MICR Number of the Bank	110015013
7. IFSC Code of the Bank	CNRB0000346
8. E-mail ID of Beneficiary	director.iichenrc@gmail.com
9. Phone No.	011 -41422060
10. PAN No.	AAAAI1126Q
11. GST Number	07AAAAI1126Q1ZM

*(Please attach screenshot / details of payment made)*

### **Address for submitting nominations:**

**Mr. R.P. Luthra**

Director Administration  
Indian Institute of Chemical Engineers  
(Northern Regional Centre)  
C-27, Qutab Institutional Area,  
New Delhi 110016, India  
Email: director.iichenrc@gmail.com,  
Ph. No.: +91-11-41422060, +919891177248