

ANNUAL REPORT 2016-17

(This report covers the Activities of the IChE (NRC) during the period 1st July 2016 to 30th June 2017)

The Executive Committee formed for the year 2016-2017 was:-

Chairman	Prof. S. S. Sambhi	Vice Chairman	Prof. A K Saroha
Honorary Secretary	Mr. Abhijit B. Pal	Honorary Joint Secretary	Dr. S. Nand
Honorary Treasurer	Dr. Anil Verma		
Members	Prof. S. Basu	Dr. S. N. Chakravarty	Mr. D. D. Maheshwari
	Prof. V. K. Srivastava	Prof. K. K. Pant	Dr. Anand Mukherjee
	Dr. Dinesh Kumar	Mr. Amitava Banerjee	
Co-opted Members	Mr. Shyam Bang	Mr. Ranjan Goel	

Activities - NRC

This account covers the period from 1st July, 2016 to 30th June, 2017.

In the year 2016-17, we have been able to organize number of activities on behalf of IChE (Northern Regional Centre) and jointly with other organizations as mentioned below.

IChE (NRC) Lecture Series – “*Learning with the Leaders*”

1. Steam Methane Reforming for Hydrogen Production - *Mr. Rajesh Kumar Ramaswamy, Lead Engineer-HyCo Technology, Air Liquide Global E&C Solutions India Pvt. Ltd, at IChE-NRC Auditorium. It was held on 15th October, 2016.*

Foundation Day of Indian Institute of Chemical Engineers (Northern Regional Centre), New Delhi

The foundation day program was held on 21st January, 2017. During this occasion, Dr. Anjan Ray, *Director, CSIR-IIP, Dehradun* presented a paper on Technology Commercialization at the Interface of Chemistry and Chemical Engineering.

Meetings:

1. IChE-NRC hosted 4th Council meeting for IChE national council on 9th July, 2016.
2. Brainstorming session with council members and senior person from Industry on 8th July, 2016. Various issues were discussed, includes the initiatives, which IChE can take in collaboration with Chemical Industry. This was followed by evening meeting and get-together with various industry representatives and IChE Council Members. IChE NRC thanks Mr Shyam Bang (ex-President) and Prof P De (present President) for this initiative.
3. Joint meeting with NRC EC members and Council members – 9th July, 2016
4. 1st EC meeting – dated – 13th July, 2016
 - a. New committee constituted
 - b. Decided to continue with existing office bearers
 - c. Review program committee activities
5. Special urgent EC meeting – dated 23rd July, 2017
 - a. Discussion on DDA official visit
6. 2nd EC meeting – dated – 17th December, 2016
 - a. Review of Solar panel operation
 - b. Discussion on foundation day activities
 - c. Discussion on future activities for NRC
 - d. Plant visit discussion and finalization
 - e. Updates on membership drive
7. 3rd EC meeting – dated – 18th March, 2017
 - a. Review of building maintenance work done in 2016-17
 - b. Plan for interior repair and maintenance – 2017-18
 - c. Draft review for future program
 - d. Suggestion of holding SCHEMCON in SNU
8. Program committee meeting – dated 13th May, 2017
 - a. Review program feedback received from members
 - b. Finalize the program calendar for 2017 – early 2018
9. 4th EC meeting – dated – 17th June, 2017
 - a. Discussion of annual accounts – 2016-17
 - b. Discussion of annual program calendar – 2017-18

Launching Student's Chapter – SNU – 19th August, 2016

IChE EC members visited Shiv Nadar University, during the opening of the Student's Chapter of IChE, on 19th August, 2016. IChE members had one-and-half hours formal interaction with students of Chemical Engineering. This was followed by facility visit with SNU professors.

Program with Lovraj Kumar Memorial Trust:

LKMT has two annual events, similar in line with other years. This included both the annual R&D conclave and annual lecture.

Topic	Speaker
Issues pertaining to imaging in thrust fold belt areas	<i>Mr. K. Dasgupta Oil India Ltd.</i>
Non Seismic methods in Oil & Gas Exploration	<i>Mr. David Moore CGG</i>
Acquisition of non-seismic data and integration for seismic imaging in faulted thrust belt areas	<i>Ivica Mihaljevic M/s Schlumberger</i>
Issues in hand, current status in the industry and the challenges being faced	<i>Shri J P Dobriyal, COD, HP-HT ONGC Ltd.</i>
HPHT Challenges and Possible Solutions; Fracturing in HPHT Reservoirs	<i>Ms. Juli Singh & Mr. Krishna Bordeori M/s Schlumberger</i>
Focus on relevant technology and services-available and in pipelines	<i>Shri A. Reghu Padmanabhan M/s Weatherford</i>
Exploration for Natural Gas Hydrate – Way Head	<i>Dr. Pushpendra Kumar GM (Gas Hydrate Programme, ONGCL</i>
Exploitation of Fractured Reservoirs – A Lab Scale Approach	<i>Dr. Jyoti Phirani Assistant Professor Dept. of Chemical Engineering, IIT, Delhi</i>
Thermal Technology in Search of Hydrocarbon	<i>Mr. Anil Kumar Director, M/s Nityam Geo Services Pvt. Ltd., & Dr. Igor Glushchenko and Dr. Vladimir Kuzenkov</i>

The annual lecture was conducted on 29th November, at India International Center. It was delivered by *Shri B.K. Chaturvedi, IAS (Rtd.), former Cabinet Secretary, Govt. of India*, on Emerging Challenges in Public Governance.

The 2-day R&D conclave was organized on 2nd and 3rd Feb, 2017 – at India International Center. The LKMT Upstream R&D Conclave focused on some of the major issues being currently faced by the upstream Operators and the work being done by major service providers and technology leaders in areas to overcome these issues. A total of 95 delegates, including 20 student delegates participated in the conclave. Following were the topics and presenters for the conclave:

Survey – Learning with the Leaders Series

One online survey was conducted among the NRC members in order to understand members feedback and expectation on “Learning with Leader” program – our flagship program. The program was started in 2012 and continuing for last few years. This year was considered a good time to review the program. Here is the survey analysis:

28% of the respondents are member of IChE less than 3 years.

Regarding program

93% of the respondent are satisfied with duration

85% of the respondents are satisfied with the venue

75% of the respondents are satisfied with frequency of the program

People like to spread the venue as well – other part of Delhi, Gurgaon and Faridabad was suggested

75% of the respondents are satisfied with the relevance of the subject

Suggestion included having diverse areas of interest including latest innovation, Process intensification, environmental issues, areas other than petroleum, application of codes and standards etc.

50% of the respondents indicated that they would not like to have fee associated with this series

While there were multiple suggestion, two specific areas came up in multiple responses

Members want to see the activities beyond seminars – they are looking for training session, online training sessions, workshops etc.

Members also want to see IChE more active within policy-making community and take leadership role in the industry.

The number of respondents were less. If members wish, we can launch the survey again. In that case we would request more members to come forward and send the response.

Student Chapters

During recent year, IChE has taken a decision that the Regional Centers will mentor and guide the student's chapters. Based on that IChE-NRC takes keen interest in the student's chapters. This is the consecutive second year, when a new student chapter is added in NRC. Following are the details of the student's chapters in NRC:

Sl. No	Student Chapter	Coordinator
1.	DCRUST, Murthal	Prof D P Tiwari
2.	Delhi Technological University	Dr. Ram Singh
3.	Shiv Nadar University	Dr. Dhiraj Kumar Garg

All the student's chapters had multiple activities. The details of the account of the activities are attached to the report. The three chapters also confirmed that they do not have any bank account and they had not incurred any expenses regarding the activities. None of the chapters submitted any account statement. They have submitted student enrollment forms and fees – but as they do not have any bank account, none of the student chapters received subvention amount.

We are pleased to inform that USCT, GGSIP University student chapter is in the process of formation and will be enrolled as a regular student chapter.

Activity summary – DCRUST, Murthal

DCRUST, Murthal is the oldest student's chapter within NRC. Following are the activities conducted in their university:

Sr. No.	Date	Name of Activity
1.	07.10. 2016	Mindbreakers
2.	13 .10. 2016	Treasure Hunts
3.	21.03. 2016	General Chemical Quiz
4.	22.03.2017	Chemcizz Jumbling

Activity summary – Delhi Technical University:

Delhi Technical University is one of the most active and creative Student's chapter in NRC. DTU has added 45 new members in their student's chapter. They also transitioned to newly elected governing body. IICHe NRC wanted to put on record the great work done by the outgoing governing body.

The detailed report is added as attachment. Following is the summary of activities:

Sr. No.	Date	Name of Activity
1.	08.08.2016	Treasure Hunt
2.	07.09.2016	Orientation
3.	26.10.2016	ION – A chemistry Card Game
4.	16.01.2017	Senior Interactive Session
5.	30.01.2017	Industrial Trip to E-pack Polymers, Greater Noida
6.	10.02.2017	CHEMCAR
7.	11.02.2017	CHEMFISSION
8.	12.02.2017	Confluence
9.	20.02.2017	Dart Game

Activity summary – Shiv Nadar University:

Shiv Nadar University opened up the Student's chapter in the year of 2016. The inauguration ceremony was attended by EC members, where the membership certificate was handed over to their coordinator. The following are the programs organized by SNU Student's chapter:

Chemical Series No.	Date	Speaker Name	Title of the talk
1.	02 Feb'17	Mr. Bipin Vora	Opportunities & Technologies for Ethylene and Propylene Production Units in India
2.	16 Feb'17	Prof. J.J. Horng	Why is HAZMAT or Chemical Emergency Response important?
3.	27 Feb'17	Dr. Jyoti Chatterjee	Holtec International and Its Inherently Safe Modular Nuclear Reactor
4.	10 Mar'17	Mr. Bipin Vora	From Concept to Commercialization
5.	25 Mar'17	Dr. S. Nand	Development in Technology for Production of Ammonia and Urea
6.	25 Mar'17	Mr. Manish	1. Energy Conservation in Fertiliser

		Goswami	Plants 2. Environmental Considerations in Production of Fertilisers
7.	01 Apr'17	-	Visit to National Fertilizer Limited (NFL), Panipat for 3 rd and 4 th year B.Tech. (Chemical Engg.) students and faculty.
8.	08 Apr'17	Prof. A.K. Gupta,	Technological Development, Professional Ethics and Modern Life

Annual Plant Visit

Annual Plant visit is one of the eagerly awaited event in NRC. This year total 18 NRC members and 5 students from GGSIP Univ. visited the plant in Meerut. We received about double the confirmation, and we had to cancel some of the last minute requests (especially from the students), as first preference goes to the members. Unfortunately, there was about 50% drop-out. NRC makes a humble request to members in order to reduce the number of last minute drop-outs.

- Date : 18th February, 2017
- Venue : Nanglamal Sugar Complex, Meerut
- Coordinator : Prof. A.K. Saroha

Building and Asset Maintenance

This year NRC spent significant amount as a part of building maintenance. This includes renovation of bathroom facilities, exterior repair and painting, repair and painting of parapet and boundary wall as well as repair of rain-water pipes. These activities were completed after 10 years. We also plan to take-up interior repair and painting in the coming year.

The rain water harvesting was completed this year. We are glad to inform that we are also getting a discount of 10% from Delhi Jal Board (DJB) after their inspection team expressed satisfaction on installation of RWH system. Carpet grass was laid to the entire lawn area, including the RWH section. We have also applied to Net-metering system, as we already have the solar panel installed.

We wanted to put on records the hard-work done by Mr RP Luthra, in order to maintain the facilities, including the completion of all these activities and completion of RWH system.

AMIChE Examinations

We have conducted two AMIChE Examinations - one in **September 2016** and the other one in **March 2017**.

Number of candidates appeared for the AMIChE Exams in Sept' 2016 - 59

Number of candidates appeared for the AMIChE Exams in March' 2017 - 63

Library

NRC has well-furnished library having large number of books on Biotechnology, Catalysis and Reaction Engineering, Chemical Engineering (General), Chemical Technology, Chemistry, Energy Conservation and Thermodynamics, etc. which are being procured on the recommendations of our members and faculty from IIT Delhi. We have added large number of books from our members as a library collection and we welcome such contribution and sharing.

We had subscribed E-library for the benefit of our members. We are exploring the possibility of e-subscription for journals and decision would be taken based on the feedback of members for which suggestions have been invited.

Publications

- 23rd Lovraj Kumar Memorial Lecture
- All the events presentations, photographs and videos are available on our website www.iichenrc.org which is continuously updated.

New Members

We are glad to inform that this year we have added 41 new members from this region. This is one of the largest induction of new Life members in recent times. We are hopeful that we will be able to continue such performance this year as well.

1. Mr. D.K. Rajeev Nambiar	15. Ms. Isha Sharma	29. Ms. Suchetana Bandopadhyay
2. Ms. Vartika Shukla	16. Ms. Ashita Gugalia	30. Mr. Vinay Kumar Chaurasia
3. Dr. R N Maiti	17. Mr. Subramanian Nagarajan	31. Mr. Sourav Dey
4. Mr. Vivek Bhardwaj	18. Ms. Ananya Ray	32. Mr. Joyfree Simon Mascarenhas
5. Ms. Pallavi Tyagi	19. Mr. Sourabh Maithil	33. Mr. Atanu Mukherjee
6. Ms. Vatika	20. Mr. Gaurav Raj	34. Mr. Akshay Bhaskar Nipane
7. Ms. Neeru Gupta	21. Ms. Susmitha Chakkingal	35. Ms. Sheetal Lokesh
8. Mr. Chintan S. Shah	22. Mr. Sandeep Gupta	36. Ms. Divyangana Sarswat
9. Ms. Shruti Mittal	23. Mr. Sonaal Bhanot	37. Mr. Castro Baskaran
10. Mr. Suvrendra Chakraborty	24. Mr. Srikanth Gollavilli	38. Mr. Abhishek Kumar
11. Mr. Bhaskara Rao Vennela	25. Mr. Sakthivelan M. Durai	39. Mr. Krishnamani Kalaiarasu
12. Mr. Devesh Sharma	26. Ms. Shreyoshi Mutt	40. Mr. Hausila Prasad Singh
13. Mr. Sachin Arora	27. Mr. Rahul Garg	41. Ms. Anchita Deb
14. Mr. Anup Dhaigude	28. Mr. Kalyan Prasad Vaish	

An updated list of members' directory is also available on our website.

Get-together

Two get-togethers were organized in 2016-2017:-

1. 27th August, 2016 - 43rd AGM
2. 21st January, 2017 - Foundation Day Celebration of NRC

Scholarship

21 students (15 B. Tech Students and 6 M. Tech Student) were awarded the Golden Jubilee Scholarship for the year 2016-17. Out of this, one scholarship** has been instituted by G. J. Samaj Kalyan Nyas. Scholarship cheques of Rs. 15000/- each and certificates were distributed by senior members of IChE (NRC) during the 43rd AGM held on August 27, 2016 to the following students:-

S. No.	Student's Name	University	Year in which studying
1	Mr. Bintu Saini	DCRUST Murthal	III (B.Tech.)
2	Mr. Karan Malik	DCRUST Murthal	III (B.Tech.)
3	Mr. Arpan Katiyar	DCRUST Murthal	II (B.Tech.)
4	Ms. Shristy Kaushal	Dr. SSB UICET Panjab Univ., Chandigarh	IV (B.E.)
5	Mr. Sahil Chadha	Dr. SSB UICET Panjab Univ., Chandigarh	IV (B.E.)
6	Mr. Lohit Goyal	Dr. SSB UICET Panjab Univ., Chandigarh	IV (B.E.)
7	Mr. Deepak Kumar	Dr. SSB UICET Panjab Univ., Chandigarh	IV (B.E.)
8	Mr. Manjay Kumar	IIT BHU, Varanasi	III (B.Tech.)
9	Mr. Vardan Bapna	IIT Roorkee	II (B.Tech.)
10	Mr. Nishant Raj	IIT Roorkee	III (B.Tech.)
11	Ms. Mamta Kajla	Dr. BR Ambedkar NIT Jalandhar	IV (B.Tech.)
12	Ms. Shalu Mathur	Dr. BR Ambedkar NIT Jalandhar	III (B.Tech.)
13	Mr. Dinesh Dhaka	Dr. BR Ambedkar NIT Jalandhar	IV (B.Tech.)
14	Mr. Deepak Chauhan	Dr. BR Ambedkar NIT Jalandhar	III (B.Tech.)
15	Mr. Satyam Sundaram	Dr. BR Ambedkar NIT Jalandhar	II (B.Tech.)
16	Ms. Monika	DCRUST Murthal	I (M.Tech.)
17	Mr. Devender Singh	DCRUST Murthal	II (M.Tech.)
18	Mr. Chandra Shekhar	DCRUST Murthal	II (M.Tech.)
19	Ms. Nidhi Yadav	DCRUST Murthal	II (M.Tech.)
20	Ms. Aashna Suneja	MNIT Jaipur	II (M.Tech.)
21	Mr. Vikram Kumar ** **(Awarded to G. J. Samaj Kalyan Nyas Scholarship)	DCRUST Murthal	II (B.Tech.)

Forthcoming Events:

- Seminar on “Application of Design Codes” July 15, 2017
- Seminar on "Refineries -The Indian Direction" August 18, 2017
- Seminar on “Commissioning of Chemical Plants” September 9, 2017
- Lovraj Kumar Memorial Trust Annual Workshop 2017
(In association with IChE Northern Regional Centre) October, 2017
- Seminar on “Turbo-Machinery” October, 2017

- Seminar on “Commercial Developments of Indigenous Technology” November 24-25, 2017
- 24th Lovraj Kumar Memorial Lecture
(*In association with IChE Northern Regional Centre*) November, 2017
- Foundation Day of Northern Regional Centre December 16, 2017
- Seminar on “Cooling Tower” January, 2018

We were able to conduct all the above stated activities because of the hard work and untiring efforts of all the employees of IChE NRC, participating members and EC members of IChE NRC. Finally, I thank all of you for your past support and I solicit your guidance and support for the growth of our Institute in future.

Thank you to all.



(Abhijit Bikas Pal)
Honorary Secretary