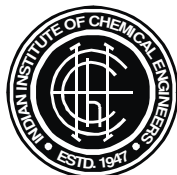


**Annual Report**  
**2019-20**  
(April 1, 2019 to March 31, 2020)



**Indian Institute of Chemical Engineers**

## List of Council Members for 2019 & 2020

2019	Designation	2020
Prof S V Satyanarayana, Dept of Chemical Engineering, JNTUA College of Engineering, Anantapuramu Dist, Andhra Pradesh 515 002, [Mobile]: 9849509167, <a href="mailto:svsatya7@gmail.com">svsatya7@gmail.com</a>	President	Prof V V Basava Rao, Plot No. 184, Tirumala Nagar Colony, Meerpet (V), Moulali Housing Board, Hyderabad 500 040, Telangana State, [Mobile]:9989156705, <a href="mailto:profbasavarao_1964@yahoo.com">profbasavarao_1964@yahoo.com</a>
Prof Vinay K Srivastava, Dept. of Metallurgical Engg. & Material Science, IITB, Powai Mumbai -400076, [Mobile] (o)9833621629, <a href="mailto:vkstriv1954@gmail.com">vkstriv1954@gmail.com</a>	Immediate Past President	Prof S V Satyanarayana, Dept of Chemical Engineering, JNTUA College of Engineering, Anantapuramu Dist, Andhra Pradesh 515 002, [Mobile]: 9849509167, <a href="mailto:svsatya7@gmail.com">svsatya7@gmail.com</a>
Mr D M Butala, 5, Mohak, B/h, Manisha Society, Behind Raja's Lavkush Bunglow, Near Upendra Bhatt's Bunglow, Syed Vasana Road, Baroda 390 015, [Mobile]: 9979853021, <a href="mailto:dmbutala27@yahoo.com">dmbutala27@yahoo.com</a>	Vice Presidents	Mr Praveen Saxena, Director, Blast Carboblocks Pvt Ltd, 505, Persipolis, Sector-17, Vashi, Navi Mumbai 400 705, [Mobile]: 9869606386, <a href="mailto:praveensaxena1951@gmail.com">praveensaxena1951@gmail.com</a>
Prof V V Basava Rao, Plot No. 184, Tirumala Nagar Colony, Meerpet (V), Moulali Housing Board, Hyderabad 500 040, Telangana State, [Mobile]:9989156705, <a href="mailto:profbasavarao_1964@yahoo.com">profbasavarao_1964@yahoo.com</a>		Dr M Venkateswara Rao, Professor, Dept of Chemical Engineering, RVR & JC College of Engineering (A), Chowdavaram, Guntur 522 019, A.P., [Mobile]: 9440010190, <a href="mailto:mvr Rao79@gmail.com">mvr Rao79@gmail.com</a>
Prof Amitava Bandyopadhyay, Dept. of Chemical Engineering, University of Calcutta, 92, A P C Ray Road, Kolkata 700 009, [Mobile] 9830823946, <a href="mailto:amitava.iiche@gmail.com">amitava.iiche@gmail.com</a>	Honorary Secretary	Dr Avijit Ghosh, Assistant Professor, Department of Chemical Engineering, Heritage Institute of Technology, Anandapur, Madurdaha, Kolkata 700 107, [M] 9433139742, <a href="mailto:avijitghosh.che@gmail.com">avijitghosh.che@gmail.com</a>
Mr M Ranga Rao, B-26, Rukminipuri, ECIL Post, Hyderabad 500 062, (O) 9963457575, [Mobile] (O) 9963457575, <a href="mailto:ranga.nfc@gmail.com">ranga.nfc@gmail.com</a>	Honorary Joint Secretary	Dr Madhu Agarwal, Associate Professor, Department of Chemical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur 302 017, [Mobile]: 9413349429, <a href="mailto:madhunaresh@gmail.com">madhunaresh@gmail.com</a>
Dr G S V Ratnam, Senior Principal Scientist, Chemical Engineering Department, Central Leather Research Institute (CLRI), Chennai 600 020, [Mobile]: 9444464670, <a href="mailto:gsvratnam@gmail.com">gsvratnam@gmail.com</a>	Honorary Treasurer	Dr M K Jha, Professor, Department of Chemical Engineering, National Institute of Technology, Jalandhar 144 011, Punjab, [Mobile]: 9417290668, <a href="mailto:jhamkin@yahoo.co.in">jhamkin@yahoo.co.in</a>
Prof Suddhasatwa Basu, Director, CSIR-Institute of Minerals & Materials Technology, CSIR, Bhubaneswar 751 013, Odisha, [Mobile] 7838134181, <a href="mailto:sbasu.chemical@yahoo.co.in">sbasu.chemical@yahoo.co.in</a>	Honorary Editor	Prof Suddhasatwa Basu, Director, CSIR-Institute of Minerals & Materials Technology, CSIR, Bhubaneswar 751 013, Odisha, [Mobile] 7838134181, <a href="mailto:drsbasu@gmail.com">drsbasu@gmail.com</a>
Dr M Rajasimman, Associate Professor, Dept of Chemical Engineering, Annamalai University, Annamalai nagar 608 002, [Mobile] (O) 9842565098, <a href="mailto:simms@rediffmail.com">simms@rediffmail.com</a>	Controller of Examinations	Dr N Balasubramanian, Professor, Department of Chemical Engineering, A C Tech., Anna University, Chennai 600 025, [Mobile] 9444954151, <a href="mailto:nbs.bala@gmail.com">nbs.bala@gmail.com</a>
Mr Praveen Saxena, Director, Blast Carboblocks Pvt Ltd, 505, Persipolis, Sector-17, Vashi, Navi Mumbai 400 705, [Mobile]: 9869606386, <a href="mailto:praveensaxena1951@gmail.com">praveensaxena1951@gmail.com</a>	Honorary Register	Dr Gaurav Rattan, Assistant Professor, Dr S S Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh 160 014, [Mobile] 8288071498, <a href="mailto:grattan@pu.ac.in">grattan@pu.ac.in</a>
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Prof N Balasubramanian, Department of Chemical Engineering, A C Tech., Anna University, Chennai 600 025, [Mobile] 9444954151, <a href="mailto:nbs.bala@gmail.com">nbs.bala@gmail.com</a>	Member	Prof Sudip K Das, Dept of Chemical Engineering, University of Calcutta, 92, A P C Ray Road, Kolkata 700 009, [Mobile] 9830638908, <a href="mailto:drsudipkdas@gmail.com">drsudipkdas@gmail.com</a>
Prof Ajay Bansal, Dept of Chemical Engineering, National Institute of Technology, Jalandhar 144 011, Punjab, [Mobile]: 9417223839, <a href="mailto:drajaybansal@gmail.com">drajaybansal@gmail.com</a>	Member	Dr M P Jain, B-22/6, Kendriya Vihar, Sector – 11, Kharghar, Mumbai 410 210, [Mobile]: 9867262250/ 2227743964, <a href="mailto:mpjain2000@yahoo.com">mpjain2000@yahoo.com</a>
Prof Sudip K Das, Dept of Chemical Engineering, University of Calcutta, 92, A P C Ray Road, Kolkata 700 009, [Mobile] 9830638908, <a href="mailto:drsudipkdas@gmail.com">drsudipkdas@gmail.com</a>	Member	Dr C Karthikeyan, Professor & Head, Dept of Chemical Engineering, Annamalai University, Annamalai nagar 608 002, [Mobile]: 8838700211/ 9865356561, <a href="mailto:drcktech@rediffmail.com">drcktech@rediffmail.com</a>
Dr S K Gupta, Associate Professor, Department of Chemical Engineering, Harcourt Butler Technological Institute (HBTI), Nawabganj, Kanpur 208 002, [Mobile] 9415042325, <a href="mailto:skjee@yahoo.com">skjee@yahoo.com</a>	Member	Prof Alpana Mahapatra, Professor & Head, Chemical Engineering Department, D J Sanghvi College of Engineering, U-15, JVPD Scheme, BVS Marg, Vile Parle (W), Mumbai 400 056, [Mobile]: 9920832421, <a href="mailto:alpana1mahapatra@gmail.com">alpana1mahapatra@gmail.com</a>
Dr M P Jain, B-22/6, Kendriya Vihar, Sector – 11, Kharghar, Mumbai 410 210, [Mobile]: 9867262250, <a href="mailto:mpjain2000@yahoo.com">mpjain2000@yahoo.com</a>	Member	Prof (Dr) S C Naik, The Cosmopolis, Flat No. I-004, Dumduma, Bhubaneswar 751 019, [Mobile]: 9437049747, <a href="mailto:rkl_sчнаik@bsnl.in">rkl_sчнаik@bsnl.in</a>
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Prof (Dr) S C Naik, Flat No. I-004, The Cosmopolis, Dumduma, Bhubaneswar 751 019, [Mobile] 9437049747, <a href="mailto:rkl_sчнаik@bsnl.in">rkl_sчнаik@bsnl.in</a>	Member	Dr G S V Ratnam, Senior Principal Scientist, Chemical Engineering Department, Central Leather Research Institute (CLRI), Chennai 600 020, [Mobile]: 9444464670, <a href="mailto:gsvratnam@gmail.com">gsvratnam@gmail.com</a>
Mr Shashikant S Pokale, 104, Ekta Tower, Asopalav Complex, Vapi, Gujrat 396 191, [Mobile] (O) 9737344456, <a href="mailto:sspokale@yahoo.co.in">sspokale@yahoo.co.in</a> , <a href="mailto:tlprasad63@gmail.com">tlprasad63@gmail.com</a>	Member	Dr Anil Kumar Saroha, Professor, Dept of Chemical Engineering, Indian Institute of Technology Delhi, Hauz Khas, New Delhi 110 016, [Mobile]: 9871360500, <a href="mailto:aksaroha@chemical.iitd.ac.in">aksaroha@chemical.iitd.ac.in</a>
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Dr K B Radhakrishnan, Professor & Head, Department of Chemical Engineering, TKM College of Engineering, Kollam 691 005, Kerala, [Mobile] 9447205767, <a href="mailto:drkbrnair20@gmail.com">drkbrnair20@gmail.com</a>	Member	Mr Kalyan Kumar Basu, 183, Jodhpur Park, Kolkata 700 068, [Mobile]: 9007024255, <a href="mailto:kbasu2004@yahoo.co.in">kbasu2004@yahoo.co.in</a>
Dr Gaurav Rattan, Assistant Professor, Dr S S Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Chandigarh 160 014, [Mobile] 8288071498, <a href="mailto:grattan@pu.ac.in">grattan@pu.ac.in</a>	Member	
Dr Sanjeev S Katti, Director General, ONGC Energy Centre, 8 <sup>th</sup> Floor, Core-4, SCOPE Minar, Laxmi Nagar, Delhi 110 092, [Mobile]: 8451919270, <a href="mailto:sanjeev_katti@hotmail.com">sanjeev_katti@hotmail.com</a>	Member	
Dr Avijit Ghosh, Assistant Professor, Department of Chemical Engineering, Heritage Institute of Technology, Anandapur, Madurdaha, Kolkata 700 107, [M] (O)9433139742, <a href="mailto:avijitghosh.che@gmail.com">avijitghosh.che@gmail.com</a>	Member	
Dr V S Sapkal, Department of Chemical Technology, Sant Gadge Baba Amravati University, Amravati 444 602, Maharashtra, [Mobile] (O)9422856980, <a href="mailto:vssapkal@gmail.com">vssapkal@gmail.com</a>	Member (AICTE Nominee)	Dr V S Sapkal, Department of Chemical Technology, Sant Gadge Baba Amravati University, Amravati 444 602, Maharashtra, [Mobile] (O)9422856980, <a href="mailto:vssapkal@gmail.com">vssapkal@gmail.com</a>

**Indian Institute of Chemical Engineers  
Kolkata – 700 032**

**Annual Report for 2019-2020**

### **1.0 Introduction**

The report covers major activities of the Institute during the period 1 April 2019 to 31 March 2020.

### **2.0 72<sup>nd</sup> Annual Session and CHEMCON 2019**

The 72<sup>nd</sup> Annual Session of Indian Institute of Chemical Engineers (IChE), i.e., Indian Chemical Engineering Congress (CHEMCON 2019) was organized in New Delhi during 15 – 19 December 2019. The event was jointly organised by the Northern Regional Centre of IChE; the Department of Chemical Engineering, IIT Delhi; Indian Oil Corporation Ltd. (Industry Partner) and European Federation of Chemical Engineering (International Partner).

CHEMCON 2019 was inaugurated by Shri Dharmendra Pradhan, Hon'ble Union Minister of Petroleum and Natural Gas and Ministry of Steel in the presence of distinguished guests, such as, Director, IIT Delhi; Director (Refineries), Indian Oil Corp. Ltd.; President, IChE; Head, Petrochemical Academy, Reliance Industries Ltd. The Hon'ble Minister inaugurated the event by lighting of lamp and delivering the Inaugural Address. The highlight of the Inaugural Session was Shri Dhirubhai Ambani Commemoration Lecture on "Innovation for Economic Growth with respect to Chemical Industries: Retrospect & Prospect" by Padma Vibhushan Prof. M.M. Sharma, globally renowned academic and chemical engineer.

On 16 December 2019, the CHEMCON programme commenced with the three Memorial Lectures: **Dr. H.L. Roy Memorial Lecture**, which was delivered by **Prof. K. VijayRaghavan**, Principal Scientific Advisor, Government of India on the topic 'Fertilizers: Their Chemical Engineering history and Their Future'; **Prof. N.R. Kamath & Mrs. Ruzena Kamath Memorial Lecture**, which was delivered by **Dr. SSV Ramakumar**, Director (R&D), Indian Oil Corporation Limited on the topic "Emerging Energy Scenario – Low Carbon Imperatives" and **C.K. Murthy Memorial Lecture**, which was delivered by **Prof. Ashutosh Sharma**, Secretary, Dept. of Science & Technology, Government of India on the topic "Navigating Complexity in Science".

An Indo-European Symposium was held in association with the International Partner, namely, European Federation of Chemical Engineering (EFCE). Eminent speakers, such as, Prof. Flario Manenti, Milan, Italy; Prof. Anton Kiss, University

of Manchester, UK; Dr. Dietmar Hueglin, Vice-President, BASF; Dr. S. Nand, Deputy Director General, FAI and Prof. G.D. Yadav, ICT Mumbai delivered lectures.

Technical Sessions on the central theme of the Congress, 'Advances in Chemical Engineering for Industrial Applications' were presented under five separate subject titles: i. Crude to Chemicals, ii. Process Safety, iii. Process Intensification, iv. Resources, Recycle and Reuse, v. Energy and Environment. There were 15 lectures on these topics, delivered by eminent speakers.

Parallel Sessions were spread over two days wherein technical presentations were made. There were more than 180 presentations during these sessions. Poster Sessions saw presentations by 38 participants. CHEMCON 2019 was concluded with the Valedictory Address by the President of IChE, Prof. S.V. Satyanarayana. More than 400 delegates participated in CHEMCON 2019.

### **Award Presentation**

An impressive number of awards were presented on the occasion, which also included the following two most prestigious National Awards, conferred by IChE:

Dr B P Godrej Life Time Achievement Award was conferred upon Prof Y B G Varma, a revered Teacher and Distinguished Chemical Engineer.

Lala Shriram National Award for Leadership in Chemical Industry was conferred upon Mr Rajendra Gogri, Chairamn and Managing Director, Aarti Industries Ltd., Maharashtra.

Names of all the awards and a list of awardees are available in **Section 10.0**.

In a departure from the general practice, the customary Shri Dhirubhai Ambani Commemoration Day was observed by IChE as a separate programme on 28 and 29 December 2019 at Jaipur, which was organised by the Jaipur Regional Centre of IChE. Programmes included the prestigious Shri Dhirubhai Ambani Oration Lecture, delivered by Padma Vibhushan Prof. M.M. Sharma. Several other Orations and Invited Lectures were also delivered by renowned academics and industry bigwigs. An International Conference, titled, 'Energy & Environment: Challenges & Opportunities for Industries' was also held on the occasion.

## 72<sup>nd</sup> Annual General Meeting

The 72<sup>nd</sup> (seventy-second) Annual General Meeting (AGM) of the Institute was held on December 17, 2019 at IIT Delhi, New Delhi. Prof S.V. Satyanarayana, President of the Institute for 2019, chaired the meeting. The AGM was attended by 49 Corporate Members. **(A list of members, who were present in the AGM, is presented in the back inside cover page).**

i. The minutes of the 71<sup>st</sup> (Seventy-first) AGM, held on December 28, 2018 at National Institute of Technology, Jalandhar, which were circulated by Prof Amitava Bandyopadhyay, Honorary Secretary (2019) on November 26, 2019, were confirmed, as proposed by Dr K A Badrinarayan and seconded by Mr Sanjay Bhardwaj.

ii. The meeting adopted the minutes of the EGM of the Institute, held on October 17, 2019 at SRICT, Ankleshwar. The minutes were circulated on November 16, 2019 and the decision on its adoption was subject to consideration by a committee comprising Mr. Shaym Bang, Prof Vinay K Srivasatava, Mr Praven Saxena, Prof N Balasubramanian and Mr S I Thakar. The committee was constituted during the meeting.

In this connection, Prof Vinay K Srivasatava suggested the following:

- Separate PAN Number for each Regional Centre.
- Audited Annual Accounts, to be submitted by the Regional Centres, accompanied by tax amount. Without the tax amount, the audited accounts would not be accepted.
- An expert committee that might be formed at the Headquarters to focus GST issues.

iii. The AGM unanimously adopted the Annual Report of the Institute for 2018-2019 (from 01.04.2018 to 31.03.2019) and the Audited Statement of Accounts for the year ended 31 March 2019 as proposed by Mr Dhawal Saxena and seconded by Prof Vinay K Srivastava.

The names of the following newly elected Council Members for the period 2020 – 2022 were announced.

East Zone	Dr Avijit Ghosh
North Zone	Prof Anil K Saroha Dr M K Jha
South Zone	Dr M V Rao Dr C Karthikeyan
West Zone	Prof N M Surana

Members welcomed the newly elected Council Members.

Prof S V Satyanarayana, the outgoing President, IChE thanked the Council Members, the members of the Executive Committees of the Regional Centres, Student Chapters and Members of the institute, in general, for extending their sincere co-operation for all activities of the Institute during the year.

The members conveyed their gratitude to the President and the outgoing Council Members for the services rendered during the year towards growth of the Institute.

## 4.0 R&D Activities by IChE HQ

The Institute is recognized upto 31.3.23 by the Department of Science and Technology, Government of India, as a Scientific and Industrial Research Organization (Vide Ref. F.No.11/57/88–TU–V, Dated: 16.9.20). Some of the R&D projects, funded by IChE, which are presently underway include:

- Development of economically viable peeling and dissolution process for active cathode of the lithium-iron batteries.

PI: Dr Ravi Methekar, Visvesvaraya National Institute of Technology, Nagpur.

- Development of an Economic Appliance for household Waste Disposal.

PI: Dr Madhusree Kundu, National Institute of Technology, Rourkela.

- Design and Development of MnO<sub>2</sub>- Nitrogen Doped Biomass based Graphene- PEDOT electrode materials for electrochemical energy storage Application.

PI: Dr R Saravaanathamizhan. Anna University, Chennai.

## 5.0 R&D Related Activities by Regional Centres

An outline of activities connected to research and development in Chemical Engineering and allied fields that have been carried out by IChE's Regional Centres (RCs) as well as by the Student Chapters under the aegis of the RCs is presented below. For the RCs, the 1-year period covers July 2019 – June 2020.

Name of the Regional Centres	R&D Related Activities
Ahmedabad	<p><b>a) Meghmani Knowledge Foundation :</b></p> <ul style="list-style-type: none"> <li>● A lecture was organized on “Building Green, Clean and Smart Chemical and Allied Industries in the service of society of 21<sup>st</sup> Century” on 29.01.2020 delivered by Prof G D Yadav, Former VC, ICT, Mumbai &amp; Past President, IICChE)</li> </ul> <p><b>b) Webinar :</b></p> <ul style="list-style-type: none"> <li>● Webinar on “Mind Power” was organized on 23.05.2020 particularly keeping in mind the situation arise because of COVID-19 by Prof Dilipbhai Thakkar.-</li> <li>● Webinar on “Process Safety for Chemical Engineers” was organized on 30.05.2020. The lecture was delivered by Shri Yashpal Singh Ghaman, Alumni of LDCE.-</li> <li>● Webinar on “Quality Management Techniques in Business &amp; Operational Excellence” was organized jointly with IEI, Gujarat on 13.06.2020. A lecture was delivered by Prof Narendra Viswarp of IIT, Madras, Chennai.</li> </ul>
Amaravati	<p><b>a) IICChE Foundation Day :</b></p> <ul style="list-style-type: none"> <li>● Every year on 02.11.2019 the birth day of Late Dr H L Roy is celebrated as IICChE Foundation Day</li> </ul> <p><b>b) Seminar :</b></p> <ul style="list-style-type: none"> <li>● On ‘Industrial Hazards and Safety’ by Prof M V Rao, held on 30.11.2019 in association with the Andhra Sugars Limited, Tanuku.</li> </ul> <p><b>c) Talks:</b></p> <ol style="list-style-type: none"> <li>1) On ‘Occupational Hazards and Process Safety’ by Dr A Koshy, Director, RiskChem Engineering and Academy.</li> <li>2) On ‘Safety – Is it a Value or Cost?’ by Dr G S V Ratnam, Sr Principal Scientist (Retd), CLRI, Chennai. Dr Venkata Ratnam conveyed an important message that “Safe Production” is very much essential and it is more economical in the long run than simply ‘Production’.</li> </ol> <p><b>d) ChECK-2020 :</b></p> <p>IICChE Student Chapter at RVR &amp; JC College of Engineering in association with Amaravati Regional Centre organized a two day student activity “Chemical Engineering Contest for Knockout-2020 (ChECK-2020)” during 26 &amp; 27 February, 2020. About 143 Students participated from various colleges.</p> <p><b>Lectures :</b></p> <ul style="list-style-type: none"> <li>● On ‘Process Industries – Hazards &amp; Safety’ by Dr G S V Ratnam, Sr Principal Scientist (Retd), CLRI, Chennai.</li> <li>● On ‘Energy Usage &amp; CO<sub>2</sub> Management, Application, Examples’, by Dr A Sarath Babu, Professor of Chemical Engineering, NIT, Warangal.</li> <li>● Technical Papers were presented by the participants from various colleges and prizes were awarded to the candidates according to their merit.</li> <li>● Technical Quiz, Elocution, Group Discussions and Chem Quest were held amongst the students of different colleges and were awarded according to their merit.</li> </ul> <p><b>e) Student Chapter :</b></p> <p>RVR &amp; JCCE Student Chapter Organized Expert Lectures on the topic on:</p> <ul style="list-style-type: none"> <li>● ‘Career Opportunities’ by V V Kishore Kumar of Kaish Academy, Guntur, on 05.07.2019</li> </ul>

	<ul style="list-style-type: none"> <li>● 'Joy and Satisfaction of Idea Based Research' by S N Upadhyay, Professor Emeritus, Dept of Chemical Engg, IIT (BHU), Varanasi, on 06.07.2019</li> <li>● 'Application of Chemical Principles in Pharmaceutical Industry' by Prof Ch V R Murthy, Principal (Retd), AU College, Andhra University, Visakhapatnam on 16.07.2019</li> <li>● 'Pharma Business – Role for Chemical Engineers' by P Malleswara Rao, of M/s. Towa Pharmaceutical Co. Ltd., Chennai, on 28.08.2019</li> <li>● 'Simulations in Process Industries' by Ravuri Ravindra, Sr Consultant, DNVGL, Malayasia, on 11.12.2019</li> <li>● 'Importance of Process Simulation' by Dr M Vasudev Kumar, Process Engineering Specialist, Shell Technology Centre, Bangalore, on 31.12.2019</li> </ul> <p><b>f) Plant Visit :</b></p> <ul style="list-style-type: none"> <li>● To M/s. KCP Ltd., Macherla, Guntur, on 30.12.2019</li> <li>● To M/s. Sri Dhanalakshmi Group of Industries, Guntur, on 23.12.2019</li> <li>● To M/s. JOCIL Ltd., Dokiparru, Guntur, on 30.07.2019</li> </ul> <p><b>g) Online Summer Internship :</b></p> <ul style="list-style-type: none"> <li>● A lecture on the topic 'Process Safety Management in Chemical Industries' by Dr Ravindra Pogaku, Research Professor, University of South Carolina and Professor of Chemical and Bioprocess Engineering, University Malayasia Sabah, Malayasia</li> </ul>
<b>Ankleshwar</b>	<p><b>a) Plant Visit :</b></p> <ul style="list-style-type: none"> <li>● To Ms/. GNFC Ltd., by 4<sup>th</sup> Year Chemical Engineering Students of SRICT, Valia, on 08.07.2019</li> <li>● To Ms/. GNFC Ltd., by 4<sup>th</sup> Year Chemical Engineering Students of PSE, Surat, on 08.10.2019</li> <li>● To M/s. GNFC Ltd., by the Chemical Engineering Students of SVMIT, Bharuch on 21.09.2019</li> </ul> <p><b>b) Student Chapter :</b></p> <p>Inaugural Function of welcoming PP Savani College of Engineering Student Chapter, Surat, under IChE Ankleshwar Regional Centre. An Expert Talk was delivered by Mr Snehal Tralsawala on 'Chemistry for Chemical Engineering', on 30.08.2019</p> <p><b>c) Evening Talks :</b></p> <ul style="list-style-type: none"> <li>● On 'New Developments and behaviour monitoring in Cooling Towers', by M/s. Msquare Engineers on 04.10.2019</li> <li>● Evening talk on 4<sup>th</sup> by EIPL on IOT</li> </ul> <p><b>d) SCHEMCON :</b></p> <p>Hosting Schemcon at SRICT Campus on the theme "Engineering Technologies for Green Environment" on 17.10.2019</p> <p><b>e) Industrial Visit :</b></p> <ul style="list-style-type: none"> <li>● Industrial visit by IITB Chemical Engineering Students on "Course on Wheels" on 12.12.2019</li> <li>● Industrial Visit by PP Savani students at Textile Factory</li> </ul>
<b>Baroda</b>	<p><b>a) Seminar :</b></p> <ul style="list-style-type: none"> <li>● A one day seminar on "Developments in Pump Design and Applications" held in association with IOCL, Gujarat Refinery on 30.11.2019.</li> </ul>



	<p><b>b) Student Chapter :</b></p> <ul style="list-style-type: none"> <li>• A new Student Chapter was formed in the Chemical Engineering Department, Faculty of Technology, M S University, Vadodara on 06.09.2019-</li> </ul>
<p><b>Calcutta</b></p>	<p><b>a) Technical Lectures :</b></p> <ul style="list-style-type: none"> <li>• On 'Application of AI &amp; Machine Learning in Data Science' jointly organized by Alumni Association NCE Bengal &amp; JU, Global JU Alumni Foundation and Calcutta Regional Centre of the Institute, on 26.07.2019. The lecture was delivered by Prof Subhankar Dhar, School of Information Systems and Technology, San Jose State University, USA.</li> <li>• On 'Supply Chain Management – Petroleum Industry' delivered by Mr Kumar Biswas on 07.09.2019</li> <li>• On 'Future of Higher Education in India' by Professor Ananda Deb Mukherjee, former Vice Chancellor of Vidyasagar University and General Secretary, National Council of Education, Bengal, held on 02.11.2019 on the occasion of 131<sup>st</sup> Birthday of Dr H L Roy, the Founding President of the Institute and also the Founding Father of Chemical Engineering Education in India.</li> </ul> <p><b>b) National Seminar :</b></p> <ul style="list-style-type: none"> <li>• On 'Project Management Concerns, Techniques and Solutions' to cover the broader aspects of smart engineering, emerging tools such as IoT/AI, etc. The seminar was organized by IChE-CRC in association with the Project Management Institute, West Bengal Chapter, on 29 &amp; 30 November 2019. Lectures were organized on the following key heads by practicing managers and senior dignitaries followed by panel discussion the subjects stated below:</li> <li>• Recent Trends in project management</li> <li>• Objective driven process improvement</li> <li>• Application of latest Techniques in Design Engineering and Project Management</li> <li>• Knowledge Management with IT Tools, IoT and AI</li> <li>• Financing issues of a project</li> </ul> <p><b>c) Prof Dilip Kumar Dutta Memorial Lecture :</b></p> <ul style="list-style-type: none"> <li>• On the topic 'Indian Self Reliance Story in Petrochemicals and its future', by Mr Subhasendu Chatterjee, whole-time Director of Haldia Petrochemicals Ltd., on 22.02.2020</li> </ul> <p><b>d) Technical Quiz :</b></p> <ul style="list-style-type: none"> <li>• Students' Technical Quiz was organized by CRC on 22.02.2020. There were eight groups and 29 participants from the following Institutions:</li> <li>• Calcutta University</li> <li>• Jadavpur University</li> <li>• Heritage Institute of Technology, Kolkata</li> <li>• Calcutta Institute of Technology, Uluberia</li> </ul> <p>To encourage the students cash prize and certificates were distributed to winning team members as well as participation-certificates to other team members.</p> <p><b>e) National Safety Week 2020 :</b></p> <p>As part of the 49<sup>th</sup> National Safety Week initiative, CRC observed National Safety Week on 07.03.2020 by organizing a half-day Technical Programme on the theme 'Enhance Safety &amp; Health Performance by use of Advanced Technology'.</p>

	<p><b>f) Student Chapter Activities :</b></p> <p>ChEMSPARK-2020, the 2<sup>nd</sup> Annual Chemical Engineering Technical Events of IChE-HITK Student Chapter and National Symposium on 'Renewable Energy for Sustainable Future: Materials &amp; Technology Development' held during 27-28.02.2020. It was organized by the Student Chapter of Heritage Institute of Technology to celebrate National Science Day. It encompasses various technical events such as technical talk from industry, technical model presentation, panel discussion on 'Renewable Energy – Progress in the Industry and Skill Development, Workshop on CFD, Poster Presentation. More than 300 students were participated from various institute/university across the city.</p>
<b>Dhanbad</b>	<p><b>a) Seminar :</b></p> <p>A one-day Chemical Engineering Symposium 'CHEMEFLUENCE 2019' on "Recent Development in Chemical Engineering" held on 07.09.2019 at IIT (ISM) Dhanbad, where different posters and Chem-E-Quiz presented. About 95 participants participated in the programme.</p> <ul style="list-style-type: none"> <li>● Online Webinar on "COVID-19 and its Socio-economic impact" by Dr Zyta Ziora from University of Queensland, Australia, on 06.07.2020.</li> <li>● Online Webinar on "The Skills and Knowledge that Oil Industry will need from its future Engineers" by Mr Abhijeet Anand, Commercial Engineer, Schlumberger, on 18.07.2020.</li> </ul>
<b>Guwahati</b>	<p><b>a) Technical Lectures :</b></p> <ol style="list-style-type: none"> <li>1) On 'Surface Modification of Membranes by Nanomaterials for Water Applications' by Prof W J Lau, School of Chemical and Energy Engineering, Universiti Teknologi Malaysia on 10.06.2019.</li> <li>2) On 'Exothermic reactions in Continuous Flow Reactors: Role of relative rates of various physicochemical phenomena' by Dr Amol K Kulkarni, NCL, Pune, on 31.05.2019.</li> <li>3) On 'Pattern formation, dynamics and breakup of sub-Rayleigh and Rayleigh charged droplets' by Prof Rochish Thakkar, IIT, Bombay, on 29.05.2019.</li> <li>4) On 'Stress banding in compressed quasi-two-dimensional aqueous foams' by Dr Chirag Kalekar, Dept of Mechanical Engineering, IIT, Kharagpur, on 16.04.2019.</li> <li>5) On 'Engineering Particle Shape and Interactions to Explore about Disordered and ordered Colloidal Materials' by Dr Chandan K Mishra, Post-doctoral Researcher, Dept of Physics and Astronomy, University of Pennsylvania, on 07.01.2020.</li> <li>6) On '3D concrete printing – challenges and achievements so far' by Dr Biranchi Panda, Dept of Mechanical Engineering, IITG, on 21.02.2020.</li> <li>7) On 'Selective dye adsorption using hydrothermally synthesis of metal organic frameworks' by Dr Sharad Sontakke, Department of Chemical Engineering, BITS, Pilani, Goa, on 09.03.2020.</li> </ol> <p><b>b) Workshops :</b></p> <ol style="list-style-type: none"> <li>1) On the title "Theory and demonstration session on thermal analysis of materials" by Dr R Anandalakshmi on 24.05.2019.</li> <li>2) On the title "ASPEN Workshop" by Prof Prabir Kumar Saha on 07.04.2019.</li> <li>3) On the title "C++ Applied Open FOAM" by Prof Anugrah Singh on 7-8.09.2019.</li> <li>4) On the title : 'CFD Workshop" during 29.11.2019 to 06.12.2019.</li> </ol>
<b>Kanpur</b>	<p><b>a) CHEMCON-2021 :</b></p> <p>KRC has been trying to form Committee on LOC and NOC. Intimation has been sent out to prospective members. To host CHEMCON-2021 and to make it a grand success KRC has</p>



	<p>started to explore participation of renowned speakers who would share their knowledge on the innovation/development in Chemical Industry. KRC has initiated discussion with various Chambers of Commerce, Trade Association, Government Departments, etc., to make the event a grand success.</p>
<b>Mumbai</b>	<p><b>a) Co-ordination in 1<sup>st</sup> National level Online Summer Internship Programme :</b></p> <p>1) IChEHQ conducted OSIP 2020 where about 1500 students across the country participated. Dr T L Prasad of MRC Co-ordinated for 'Process Safety Management and Mr Dhawal Saxena of MRC Co-ordinated 6-sigma training programme.</p> <p><b>b) Industry Visit :</b></p> <p>1) Industrial visit to BPCL, Mahul unit was organized by IChE-MRC. We are thankful to the BPCL Management, especially Mr Durairaj, DGM (Learning &amp; Development) for plant visit, use of drones for safety surveillance, furnace inspection, pipe line security and use of mobile for realti management of ATA were fascinating. Use of high end software for directly relating process parameters to profit and displaying it on big screen.</p> <p><b>c) Students Programmes :</b></p> <p>1) ChEMERGENCE'2019: Student Chapter at Thadamol Sahani Engineering College conducted the 14<sup>th</sup> edition of their annual technical symposium. There were Technical Poster Presentation competition, Heat Exchanger prototype making competition (HeatX), HAZOP analysis competition, debate, CheDebate, ChemQuiz Competition, Cooling Tower prototype making competition, etc. held on 20-21.09.2019.</p> <p>2) INAE-IITB Workshop at IIT Bombay in association with IChE and INA Organised one day national workshop on 'Urban &amp; Rural Challenges in Management of Solid Waste in India'. About 150 delegates from industry, academia, government officials and students fraternity attended the event on 24.09.2019.</p> <p>3) OYCE 2020: 13<sup>th</sup> Outstanding Young Chemical Engineers contest was held at ICT, Mumbai on 05.02.2020.</p> <p>4) IChE Student Chapter at D J Sanghvi College of Engineering conducted Prof N R Kamath Memorial Quiz on 07.03.2020.</p>
<b>Nagpur</b>	<p><b>a) Students Programmes :</b></p> <ul style="list-style-type: none"> <li>● IChE Student Chapter at Department of Chemical Engineering, VNIT, Nagpur, conducted various technical quizzes</li> <li>● Seminar on Explosives was arranged at VNIT</li> <li>● Routine activities such as Technical Lectures by experts and Technical Quiz were also organized.</li> </ul>
<b>Northern</b>	<p><b>a) Technical Lectures :</b></p> <ul style="list-style-type: none"> <li>● On 'Developments in Ammonia Production Technology' by Dr S Nand, Deputy Director General, Fertilizer Association of India</li> <li>● On 'Performance of Indian Ammonia Plants' by Mr Manish Goswami, Chief Technical, FAI</li> </ul> <p><b>b) CHEMCON :</b></p> <p>'CHEMCON-2019' was organized by IChE-NRC jointly in association with Department of Chemical Engineering, IIT, Delhi, IOCL (Industry Partner) and European Federation of Chemical Engineering (International Partner) on the theme "Advances in Chemical Engineering for Industrial Applications" during 15.12.2019 to 19.12.2019. In addition to the three Memorial Lectures, there were five Technical Lectures on the topics;-</p> <ul style="list-style-type: none"> <li>● CO<sub>2</sub> Utilization: A Pioneering Pathway</li> </ul>

- Rethinking Energy Use for a Sustainable Chemical Industry
- Sustainability & Chemical Recycling at BASF
- Sixty years of Ammonia production in India
- Novel Catalytic Selectivity Engineering in Valorization of Biomass, CO<sub>2</sub> and Water into Chemicals, Materials and Energy

The Technical Sessions were divided into following topics:

- Crude to Chemicals
- Process Safety
- Process Intensification
- Resources, Recycle and Reuse
- Energy and Environment

**c) Seminar/Workshop :**

The Lovraj Kumar Memorial Trust workshop on “Changing Energy Paradigm – Challenges and Opportunities” was organized on 15 & 16.11.2019 at India International Centre, New Delhi. Following lectures were held on the topic:

- On ‘Pathways to scalable deployment of bio-fuels in India’, by Dr Anjan Ray, Director, CSIR-Indian Institute of Petroleum
- On ‘Industrial Off-gases to Ethanol’ by Dr Sean Simpson, CSO, Lanza Tech, USA
- On ‘2G Ethanol Technology’ by Mr Swadhin Banerjee, General Manager – Business Development & Licensing Services, Business Line Biofuels & Derivates, M/s. Clariant
- On ‘Biotechnological Interventions for CO<sub>2</sub> Capture and Utilization’ by Dr S K Puri, CGM and Centre Coordinator of Bio-Energy Research Centre, DBT-IOC Centre, IOCL
- On ‘The Role of Residue Processing in the Optimization of Crude to Chemical Projects’ by Mr Daniel Gillis, Technology Director, Chevron Lummus Global
- On ‘Higher Margin with an Integrated Cost-effective Refinery Scheme, by Samir Saxena, Chief Technical Advisor – Process, KBR
- On ‘Opportunities in Refinery & Petrochemical Integration – A New Paradigm’ by Ms Indrani Krishnan, Sr General Manager, Engineers India Limited
- On ‘Kero Valorization to Chemicals’ by Dr Madhusudan Sau, CGM (Refining Technology), Indian Oil Corporation Limited, R&D
- On ‘Efficient Bio-methanation of Organic Waste’ by Dr Maoj Kumar Upreti, Sr Research Manager (Biotechnology), IOCL, R&D
- On ‘Waste Plastic to Liquid Fuels’ by Dr Sanat Kumar, Sr Principal Scientist, CSIR-Indian Institute of Petroleum
- On ‘Innovative Solution: Tapping four times more energy from Acid Gases compared to that from SRU’ by Mr Sagar Shukla, Haldor Topsoe
- On ‘EngCryo-A Novel Technology for Hydrogen Recovery from Refinery Off-Gases’ by Mr Saurabh Agarwala, Sr Manager (R&D), Engineers India Ltd.
- On ‘Thermo-chemical of biomass for generating bio-hydrogen and bio-fuels’ by Prof S Dasappa, Centre for sustainable Technologies, Indian Institute of Science, Bangalore
- On ‘H-CNG Technology: An Interim Pathway Towards a Green Mobility’ by Mr Alok Sharma, CGM (Alternative Energy), IOCL
- On ‘Relevance of Hydrogen Fuel Cell based Transportation for India’ by Mr Chandrashekhar Chincholkar, KPIT Technologies Ltd.

	<ul style="list-style-type: none"> <li>● On 'Solar Power: Perspective for India' by Dr Ashvini Kumar, Sr Director, Renewable Energy Technologies, The Energy and Resources Institute (TERI)</li> <li>● On 'Solar Thermal Technologies' by Dr Anil Misra, National Project Manager, United Nations Industrial Development Organization (UNIDO)</li> <li>● On 'Geothermal Energy' by Dr Sanjeev S Katti &amp; Mr Bharat Mendhe, ONGC Energy Centre</li> </ul> <p><b>c) Scholarship :</b></p> <p>Applications were invited from Government Colleges in the northern region of which 51 applications have been received. Out of those 20 students (16 B.Tech/ B.E. and 4 M.Tech/ M.E. students) were awarded the 'Golden Jubilee Scholarship' for the year 2019-20. Scholarship cheques of Rs.20,000/- each and certificates were distributed by senior members of IChE-NRC on 15.02.2020.</p> <p><b>d) Student Chapter :</b></p> <ul style="list-style-type: none"> <li>● IChE-NRC has been giving award for best paper presentation during Student Chemcons. This year (2019) also Rs.8,000/- was awarded to the best presenter.</li> <li>● IChE-NRC has sponsored the International Conference organized by AMU Aligarh Student Chapter on "Advances in Chemical and Petroleum Engineering ACAPE 2020" held on 22 to 24.02.2020 by sponsoring Rs.25,000/-.</li> </ul>
Pune	<p><b>a) Seminar/Symposium :</b></p> <ul style="list-style-type: none"> <li>● eDisha 2020 held in collaboration with NCL, Equinox Software and Services on 17.02.2020. About 150 delegates from industry and academics from across the country participated.</li> </ul> <p><b>b) Student Chapter :</b></p> <ul style="list-style-type: none"> <li>● A new Student Chapter of IChE at the Department of Chemical Engineering, Shivaji University, Kolhapur, has been opened in March 2020.</li> </ul> <p><b>c) Student Chapter at MITAOE, Alandi :</b></p> <ul style="list-style-type: none"> <li>● PRAKALP 2019, Seminar held on 13-14.09.2019</li> <li>● Expert talk by Mr Sagar Yadav held on 18.09.2019</li> <li>● Expert talk by Mr Shubham Chopade held on 25.02.2020</li> </ul> <p><b>d) Student Chapter at JNEC, Aurangabad :</b></p> <ul style="list-style-type: none"> <li>● Industrial visit to Probus Internatic MIDC, Paithan, Aurangabad, held on 02.08.2019</li> <li>● Guest Lecture by Mr Vasant Hingnikar on 'how to start small and medium scale chemical industry held on 22.08.2019</li> <li>● Industrial visit to Chwland Agro Pvt. Ltd., Aurangabad, held on 19.09.2019</li> <li>● Industrial visit to ETP MGM, Aurangabad, held on 17.10.2019</li> <li>● Workshop on "How to crack the GATE" by Ananth Kumar of Hyderabad, held from 14-18.10.2019</li> <li>● Guest lecture by Dr V K Rathod, Professor of ICT, Mumbai, on 22.02.2020</li> <li>● Guest lecture by Dr K Wasewar, Professor of VNIT, Nagpur, held on 22.02.2020</li> </ul> <p><b>e) Student Chapter at DOT, Shivaji University, Kolhapur :</b></p> <ul style="list-style-type: none"> <li>● An expert lecture was organized on 18.05.2020 delivered by Dr Santosh Sr Scientist, CSIR-NEERI on the topic 'Process Risk Assessment in Chemical industries'.</li> </ul> <p><b>f) Student Chapter at Vishwakarma Institute of Technology, Pune :</b></p> <ul style="list-style-type: none"> <li>● PCRA Guest Lecture held on 21.08.2019</li> </ul>

	<ul style="list-style-type: none"> <li>• Expert talk on Gate preparation by Dr M Mupkare on 19.11.2019</li> <li>• Expert talk on 'Process Design in Industry' by Mr Satish Parastekar on 22.01.2020</li> </ul>
<b>Pilani</b>	<p><b>a) Open House Lab :</b></p> <p>The Department of Chemical Engineering, BITS, Pilani, in association with IChE-PRC organized an 'Open House Lab' Session on 10.09.2019 for the first year students in chemical engineering.</p> <p><b>b) Lecture :</b></p> <ul style="list-style-type: none"> <li>• An invited lecture was organized on 'The Journey of Academic Research to Startup and Industry establishment' by Mr Sabyasachi Roy, Co-founder and Managing Director, ANTS Ceramics Pvt. Ltd. on 19.10.2019. The talk motivated students in chemical engineering to pursue various research and start up opportunities in the field of chemical engineering in India.</li> <li>• IChE-PRC in association with the Department of Chemical Engineering under MHRD SPARC Project organized two lectures by eminent researchers from Kyushu University, Japan. The lectures were delivered by Dr Shinji Kudo on 20.11.2019 and Dr Koji Nakabayashi on 21.11.2019.</li> </ul>
<b>Trivandrum</b>	<p><b>a) Seminar :</b></p> <ul style="list-style-type: none"> <li>• A one-day National Conference on "Manufacturing Trends in Electrochemical Energy Systems" – MEES-2019, was held on 21.09.2019.</li> </ul> <p><b>b) KSPCB Assignment :</b></p> <p>Knowing the societal commitment, the Kerala State Pollution Control Board approached us for one of its assignments;</p> <ul style="list-style-type: none"> <li>• Review the pollution levels of industries registered with KSPCB</li> <li>• Compare the levels reported by industries with theoretical values</li> <li>• Bring out the industrial values with gross variation when compared to theoretical values</li> </ul> <p><b>c) Online Essay Competition for student members :</b></p> <ul style="list-style-type: none"> <li>• On the topic "Role of Chemical Engineers to combat COVID-19 Pandemic". 13 Student Members and 3 Student Chapters actively participated in the competition.</li> </ul> <p><b>d) CGG Paniker and M R Kurup Gold Medal Award :</b></p> <ul style="list-style-type: none"> <li>• The awards were given away to the toppers in Chemical Engineering /Bio Technology &amp; Bio-Chemical Engineering from the IChE Student Chapters under TRC held on 25.01.2020. The award carried a Gold Medal and a Certificate of Merit to encourage the students.</li> </ul> <p><b>e) Technical Talks :</b></p> <ul style="list-style-type: none"> <li>• On "Mysteries of the Cosmos" by Mr V Rajasekar, Scientist, VSSC, Trivandrum, held on 28.02.2020</li> <li>• On "Controlled Explosive Demolition of High-Rise Buildings" by Dr R Venugopal, Dy Chief Controller of Explosives, PESO, Kerala, held on 24.01.2020</li> </ul> <p><b>Student Chapter at SCTCE Coordinated following talks :</b></p> <ul style="list-style-type: none"> <li>• On "Science Behind Natural Phenomena" by Mr Sujith Kumar, Head of PRL Division, VSSC, held on 26.07.2019</li> <li>• On "Career Avenues and Research Potential in Biotechnology" by Mr Venkatesh T, Scientist, NIIST, Thiruvananthapuram, held on 29.07.2019</li> <li>• On "Biomaterials and Soft Skills" by Dr Lakshminarayanan, Scientist-E4, HLL R&amp;D Centre, held on 30.07.2019</li> </ul>

	<p><b>f) Student Chapter :</b></p> <ul style="list-style-type: none"> <li>• Energy Quest-2020, Quiz competition on the topic “Save Environment by Judicious use of Fuel” held on 22.01.2020, by the Student Members of TKMCE, Kollam.</li> <li>• JAM (Just a Minute), session held on 20.01.2020</li> <li>• Chemtalks (Webinar) held on 11.02.2020</li> <li>• A new Student Chapter was opened at MCET which was inaugurated on 21.08.2019</li> </ul>
<b>Vapi</b>	<p><b>a) Seminar/Workshop :</b></p> <ul style="list-style-type: none"> <li>• A one day workshop on ‘Effective Preparation Techniques for Interview’ was organized at GECV on 15.02.2020 for the benefit of students.</li> </ul> <p><b>b) Lecture :</b></p> <ul style="list-style-type: none"> <li>• On ‘Basics of Chemistry’ by Dr H M Bhatt at GEC Valsad.</li> </ul> <p><b>c) Student Chapter :</b></p> <p>A new Student Chapter was formed at GECV. Inaugural function was held on 01.10.2019 in the college premises. The Key Note address was delivered by Mr K U Mistry, former Chairman of GPCB.</p>

## 6.0 Council Meeting Highlights

The IChE Council had the following meetings between 1 April 2019 and 31 March 2020.

### 6.1 3rd meeting for 2019, held at CSIR – IMMT, Bhubaneswar on 18 May 2019.

#### Administrative

##### **Amendment of Service Rules**

The Council constituted a Committee for review of the Service Rules of the IChE comprising members Prof V V Basava Rao, Vice President, IC-RC; Dr. G S Venkat Ratnam, Honorary Treasurer; IChE and Mr M Ranga Rao, Joint Honorary Secretary, IChE.

##### **Contribution from Regional Centres**

The Council decided to introduce a provision for annual contribution by the Regional Centres to the IChE Headquarters as per the following terms:

- Rs 2,500 for 50 Members
- Rs 5,000 for 51 to 100 Members, and,
- Rs 10,000 for more than 100 Members.

This provision was decided to be applicable from 1 July 2019.

#### Organisational Membership

The Council approved admission of Indore Institute of Science & Technology, Indore as Life Organisational Member of IChE.

#### Student Chapter Affairs

##### **New Students Chapters**

The Council approved the formation of Students’ Chapter at the Department of Chemical Engineering, ANITS, Sangivalasa,

Visakhapatnam under the Waltair Regional Centre, IChE; P P School of Engineering, P P Savani University, Surat under the Ankleshwar Regional Centre, IChE and the Government Engineering College Valsad (Gujarat) under the Vapi Regional Centre, IChE.

#### Publication

##### **e-Newsletter**

Advertisement Rates for the IChE e-Newsletter (online) was placed before the Council.

##### **Rate per issue**

Description	Dimension	Type	Cost including GST (Rs)
Inside Full Page	A4	Colour	15,000
Inside Half Page	½ A4	Colour	7500
Inside Quarter Page	¼ A4	Colour	4000

A4 Size: 8.27 inches (Width); 11.69 inches (Height)

Council approved the above rates.

### 6.2 4<sup>th</sup> meeting for 2019, held at Trivandrum on 20 July, 2019.

#### Administrative Matters

##### **Life Member, Life Associate Member & Fellowship Certificates of IChE**

After deliberations, the Council decided on a new format of the LM, LAM and Fellowship Certificates with security features (like water mark), except for the names with designations of the signatories.

## Publication

### **Special issue of Indian Chemical Engineer (ICE):**

Prof S Basu, Honorary Editor, *Indian Chemical Engineer* (the quarterly journal of IChE) had made a proposal to Prof S V Satyanarayana, President, IChE through email for consideration regarding publication of Special Issues of *ICE* containing Conference Papers. In this regard, he had sent a 'Note on Publication' for the Council's approval. After deliberation, the Council agreed in principle to the proposal and the following decisions were taken:

- An additional printing charge of 20% will be taken from the organizers that will go to IChE Headquarters.
- The deadline for publication of a Special Issue will be 3 months from the time the decision is finalised.
- Editorial process: Guest Editors will be permitted to undertake the peer review process.
- If a small number of papers are received from the conference, then the concerned issue of *ICE* may be published in two parts - one containing conference papers and the other containing the regular papers.

## Fellowship

The Council elected Dr. C. Eswaraiah and Dr. Sanjay Ghosh as Fellow of the Institute on the basis of recommendations, received from the Fellowship Committee.

## Organisational Membership

The Council approved admission of the following Life Organisational Members:

- i. Bineswar Brahma Engineering College, Kokrajhar, Assam.
- ii. Assam Engineering College, Jalukbari, Guwahati.

The Council also approved admission of the following Annual Organisational Member:

Epsilon Carbon Pvt. Ltd, Mumbai.

## Regional Centre Affairs

### **AGM of Regional Centres**

Some of the Regional Centres (RCs) did not hold the AGM before 25 June as per the Bye-Laws (# 9.1) of the RCs. It was explained that since the Audited Accounts need to be approved in the AGM, the AGM cannot be organized before 31<sup>st</sup> March.

Accordingly, the Council clarified that the AGM could be organized by the RCs between 31<sup>st</sup> March and 25<sup>th</sup> June every year as deemed suitable, considering the local conditions as well as the availability of the Audited Accounts. The RCs should submit the Audited Accounts to the IChE Headquarters, approved in their respective AGM well within 30<sup>th</sup> June. If any

RC violates this Bye-Law, then the concerned RC would be temporarily suspended till the Audited Accounts are cleared. Suspension of RCs and revocation of suspension should be approved in the Meeting of the Council.

### **Merger of Regional Centres**

If the number of Members in a Regional Centre is less than 25, then that RC has to be merged with another RC nearby or some strategy would need to be developed.

## Student Chapter Affairs

### **New Students Chapters**

The Council approved the formation of Students' Chapter at the Department of Chemical Engineering, Bineswar Brahma Engineering College, Kokrajhar, Assam under the aegis of the Guwahati Regional Centre, IChE.

### **6.3 5<sup>th</sup> meeting for 2019, held at SRICT, Ankleshwar on 17 and 18 October, 2019.**

## Administrative Matters

### **Life Fellow to become Member of Regional Centre EC**

The Council decided that a Life Fellow will become a Member of the Executive Committee of a Regional Centre.

## Organisational Membeship

The Council approved admission of the following Life Organisational Members:

- i. Gharda Institute of Technology, Ratnagiri.
- ii. Indian Institute of Petroleum Energy (IPE), Visakhapatnam.
- iii. JNTUA College of Engineering (Autonomous) Anantapur.

## Student Chapter Affairs

**New Students' Chapters:** The Council approved in principle formation of the Students' Chapter in the following institutes, subject to fulfilment of the criteria, laid down in the By-laws:

- (i). School of Engineering, Nirma University, Ahmedabad under the Ahmedabad RC and (ii) Madan Mohan Malaviya University of Technology (MMMUT), Gorakhpur, UP.

In case of the latter (MMMUT), since no Regional Centre is within its territorial limit, the Council resorted to the provision of allowing it to choose an RC near its territorial limit.

### **6.4 6<sup>th</sup> meeting for 2019 held at NRC Office, New Delhi on 16 December, 2019.**

## Fellowship

The Council elected Prof. K Yamuna Rani (CSIR Indian Institute of Chemical Technology, Hyderabad) as a Fellow of



the Institute, considering the recommendations received from the Fellowship Committee.

## **Administrative**

### **CHEMCON**

Members reiterated that as per the CHEMCON guidelines, the CHEMCON Local Organizing Committee should submit a report of the Conference to the Council within a month and the audited statement of accounts by 31<sup>st</sup> March of the following year.

### **Publication**

The Council decided to hold an Editorial Board meeting during the CHEMCON every year. The Editor, Associate Editors and the Chairman of the Publication Committee would be invited by the CHEMCON organizers to deliver an invited talk and/or chair a technical session. It would help the members of the Editorial Board to get official leave. However, no financial support would be given to the members by the IChE for participation in the Editorial Board meeting.

### **Organisational Membership**

The Council approved admission of Mohamed Sathak Engineering College, Ramanthapuram and Nandha Engineering College (Autonomous), Erode as Life Organisational Members of IChE.

### **6.5 1<sup>st</sup> meeting for 2020, held at IIT Delhi, New Delhi on 18 December, 2020.**

## **Administrative Matters**

### **Co-option to Council 2020**

Mr. K. K. Basu was co-opted into the Council for the year 2020.

### **Election of the President**

The members elected Prof V V Basava Rao as the President of the Institute for the year 2020.

### **Election of two Vice-Presidents**

Mr Praveen Saxena and Prof M. V. Rao were elected as the Vice-Presidents of the Institute for the year 2020.

### **Election of Other Office Bearers**

For the year 2020, the members elected Dr Avijit Ghosh as the Honorary Secretary of the Institute, Dr Madhu Agarwal as the Honorary Jt. Secretary; Prof M. K. Jha as the Honorary Treasurer; Dr Gourav Rattan as the Honorary Registrar and Prof N. Balasubramanian as the Honorary Controller of Examinations.

### **6.6 .2<sup>nd</sup> Meeting for 2020, held at IChE Headquarters, Kolkata on 29 February, 2020.**

### **New Committees**

The Council approved constitution of 13 Standing Committees and 5 other Committees. The Chairman and Convenor of all these Committees were elected during the 1<sup>st</sup> meeting of 2020:

### **Standing Committees 2020**

<b>Name of the Committee</b>	<b>Members</b>
<b>Admission Committee:</b>	Prof. S. K. Das (Chairman) Dr. Gaurav Rattan (Convener) Prof. K B Radhakrishnan Dr. M Rajasimman Dr. Madhu Agarwal Mr. Dhawal Saxena Prof. Sunil Baran Kuila
<b>Publication Committee:</b>	Shri Shyam Bang (Chairman) Prof. Suddhasatwa Basu (Convener) Prof. Anil Verma Shri Abhijit Pal Dr. M. K. Ghosh Dr. Swati Mohanty Prof. K. B. Radhakrishnan Prof. B. N. Thorat, Mr. S. K. Roy and Dr S C Naik – Invitees

<b>Education &amp; Examination Committee:</b>	Prof. C. Karthikeyan (Chairman) Prof. N. Balasubramanian (Convener) Dr M Rajasimman Dr D Pravakaran Dr N P Kavita Dr R Saravanathamizhan Ms T Santhoshini Priya
<b>Finance Committee:</b>	Dr. M. P. Jain (Chairman) Prof. M. K. Jha (Convener) Dr. Avijit Ghosh Dr. G. S. V. Ratnam Prof. B. B. Paira Prof. P.De Mr. K K Basu Mr D M Butala – Invitee
<b>Regional Centre Affairs Committee:</b>	Prof. P. De (Chairman) Prof. M. Venkateswara Rao (Convener) Prof. Narendra M Surana Mr. Dhawal Saxena Mr. K.Venkata Reddy Mr. Abhijit Bikas Pal Dr. G. S. V. Ratnam Mr. C.P. Ramulu - Invitee
<b>Awards/Judges Committee:</b>	Prof. V. V. Basava Rao (Chairman) Dr. Avijit Ghosh (Convener) Prof. B. B. Paira Prof. K. S. Gandhi Prof. P. De Prof. K. B. Radhakrishnan
<b>Building Committee:</b>	Prof. P. De (Chairman) Dr. Avijit Ghosh (Convener) Prof. M. K. Jha Prof. S. K. Das Prof. C. Bhattacharya Mr. P. R. Dutta Ray Prof. Asim K. De.
<b>Research &amp; Development Committee:</b>	Prof. N Balsubramanian (Chairman) Dr. Madhu Agarwal (Convener) Prof. B. C. Meikap Prof Raj Mohan B Prof. Ajay Bansal Dr. M. Rajasimman Prof Alpana Mahapatra - Invitee

<b>International Relations Committee:</b>	Prof. G D Yadav (Chairman) Mr. D. M. Butala (Convener) Dr. T. L. Prasad Prof. Anil K Saroha Prof. S. C. Naik Dr. M. P. Jain Mr. P. D. Samudra. President and Honorary Secretary are ex-officio members.
<b>Library, Documentation and Website Committee:</b>	Prof. Alpana Mahapatra (Chairman) Dr. Avijit Ghosh (Convener) Prof. M. K. Jha Prof Alok Kr Sen Prof. Sunil Baran Kuila Mr. K K Basu Mr. P. R. Dutta Roy Mr. S. K Roy - Invitee
<b>Student Chapter Affairs Committee:</b>	Prof. V. K. Rattan (Chairman) Mr. Praveen Saxena (Convener) Mr. K. K. Basu Prof. A K Saroha Dr. Shina Gautam Dr. K Sarvanan Prof Alpana Mahapatra and Prof. S. B. Kuila - Invitees
<b>Honorary Fellowship Committee:</b>	Prof V V Basava Rao (Chairman) Dr Avijit Ghosh (Convener) Prof G D Yadav Prof B B Paira Prof P De Prof Vinay K Srivastava Prof. S. V. Satyanarayana.
<b>CHEMCON Distinguished Speaker:</b>	Prof. V V Basava Rao (Chairman) Dr. Avijit Ghosh (Convener) Mr. C. P. Gurnani, Tech Mahindra, Pune, NOC, Chairman, CHEMCON-2020 Prof. Suddhasatwa Basu, LOC Chairman, CHEMCON-2020 Dr. E. C. Eswaraiah, Organizing Secretary, CHEMCON-2020 Prof. G D Yadav, Chairman, International Relations Committee, IChE, 2020 Representative of concerned Donor company.

### Other Committees 2020

Name of the Committee	Convener
<b>Legal Committee:</b>	Prof. Vinay K Srivastava (Chairman) Mr. D. M. Butala (Convener) Mr Shyam Bang Prof P De Prof S C Naik, Mr M P Jain Dr Avijit Ghosh
<b>Chemical Process Safety Group Committee:</b>	Mr. D. M. Butala (Chairman) Dr. T. L. Prasad (Convener) Mr. Joy M. Shah Dr. G. S. V. Ratnam Mr. Vijay Bhujle Mr. Jagdish Nageshri Prof K A Badarinarayan
<b>Headquarters Office Administrative Committee:</b>	Prof. B. B. Paira (Chairman) Dr. Avijit Ghosh (Convener) Prof. C. Karthikeyan Mr. M. Ranga Rao Mr A Sural Mr. Amallesh Sirkar Mr. K. K. Basu Mr. Dipak Dutta - Invitee
<b>Chemcon &amp; Schemcon Protocol Committee:</b>	Prof. C. Karthikeyan (Chairman) Prof N Balasubramanian (Convener) Prof P De Dr M V Rao Dr M K Jha Mr Praveen Saxena Dr Avijit Ghosh
<b>Industry Institute Interaction Committee:</b>	Mr Sanjeev Katti (Chairman) Mr. Praveen Saxena (Convener) Dr C Karthikeyan Mr Sanjay Bhardwaj Mr Dhawal Saxena Dr M V Rao Dr N Balasubrananian Prof N M Surana - Invitee

## Administrative Matters

As per discussion in the 72<sup>nd</sup> AGM, the Council decided to introduce a fee of Rs. 5000/- for filing of each nomination for the election to the IChE Council with effect from 2020.

## Fellowship

Following the standing practice, the Council elected Prof. S.V. Satyanarayana, Immediate Past President, as a Fellow of the Institute.

## Organisational Membership

The Council approved Life Organisational Membership of Shivaji University, Kolhapur, Maharashtra and University College of Technology, Osmania University, Hyderabad.

## Regional Centre / Student Chapter Affairs

**Regional Centre:** The Council decided to open a new regional Centre at IIT Roorkee, subject to the fulfilment of the criteria as laid down in the By-laws for the Regional Centres.

**Student Chapters:** The Council approved in principle formation of a Students' Chapter at the Department of Chemical Technology, Shivaji University, Kolhapur, Maharashtra under the aegis of the Pune Regional Centre; Department of Chemical Engineering, Hindustan Institute of Technology & Science, Padur, Chennai under the aegis of the Chennai Regional Centre; Department of Chemical Engineering, RGUKT, Basar, Telangana under the aegis of the Hyderabad Regional Centre and Department of Chemical Engineering, Vishwakarma Government Engineering College, Chandkheda, Ahmedabad under the aegis of the Ahmedabad Regional Centre, subject to fulfilment of the criteria in the By-laws.

## Financial Matters

**GST payment:** The Council decided that like other professional institutes, GST will be charged @18% on all categories of membership fees. Accordingly, the Council resolved to include GST amount without changing the total fees for the respective membership categories.

However, with regard to the student membership, it was decided to charge GST along with the existing fees (Rs 500 + 18% GST).

**Online transactions:** For streamlining the accounting procedures, the Council decided to adopt SBI e-Collect for online payment receivables.

As a part of the streamlining process, the Council has also approved installation of a new software package for online dispatch of money receipts.

**CHEMCON / SCHEMCON Contribution:** The Council decided that a minimum of Rs. 8,00,000/- (Eight Lakh) or 50% of the surplus, whichever is higher, has to be paid by the CHEMCON organizers as contribution to the Headquarters.

Similarly, a fixed amount of Rs. 2,00,000/- (Two lakh) has to be paid by the SCHEMCON organizers as contribution to the Headquarters.

## 7.0 Institute's Representatives to Various Bodies

### 1) Bureau of Indian Standards

- a. Chemical Engineering Plants & Related Equipment Sectional Committee  
Principal Nominee - Mr G V Sethuraman  
Alternate Nominee – Mr A K Saxena
- b. Chemical Division Council  
Principal Nominee - Prof S K Sharma  
Alternate Nominee - Dr S Mukherjee
- c. Refrigeration & Airconditioning Sectional Committee  
Principal Nominee – Dr D Sathiamoorthy  
Alternate Nominee – Dr Sudip K Das

The following committees are non-functional

- a. Basic Chemical Engineering Standards
- b. Process Vessels Sub-committee
- c. Heat Generation & Heat Transfer Equipment Sub-committee
- d. Crushing & Grinding Equipment Sub-committee
- e. Size Separation & Filtration Sub-committee
- f. Drying Equipment Sub-committee
- g. Packing & Gasket Sectional Committee
- h. Refrigeration & Airconditioning Sectional Committee

### 2) Asia Pacific Confederation of Chemical Engineering – President, IChE

### 3) Engineering Council of India - Mr. Shyam Bang and Prof. V K Srivastava

### 4) World Council of Chemical Engineering – President, IChE

## 8.0 Membership Position

Members, both Corporate and Organisational, are the mainstay of IChE. Without their constant support, the Institute cannot grow or pursue its objectives. IChE welcomed Honorary Fellows, Life Fellows, Life Members, Student Members, etc., as well as industry houses and academic institutions, joining the IChE fold as Organisational Members during the intervening period.

Membership position as on 31 March 2020 is given below along with the corresponding figures as on March 31, 2019 and March 31, 2018.

	March 31,'20	March 31,'19	March 31,'18
Organisational Member (Life)	89	79	77
Organisational Member (Annual)	62	61	60
Honorary Fellow	127	127	128
Fellow (Life)	123	121	121
Fellow	22	22	22
Member (Life)	5575	5492	5381
Member	749	749	750
Life Associate Member	3165	3081	2958
Associate Member	928	928	931
Student Member	23,671	20,440	17,332

The number of Corporate Members attached to each of the Regional Centres (as on March 31, 2020) are as follows:

SI. No	Regional Centre	No. of Members
1	Ahmedabad	199
2	Amaravathi	72
3	Ankleshwar	476
4	Annamalai	79
5	Bangalore	190
6	Baroda	378
7	Bhubaneswar	138
8	Calcutta	698
9	Chandigarh	108
10	Chennai	498
11	Coimbatore	137
12	Damanjodi	60
13	Dehradun	54
14	Dhanbad	36
15	Doaba	42
16	Durgapur	27
17	Goa	14
18	Guwahati	130
19	Haldia	148
20	Hyderabad	487

21	Jaipur	84
22	Kalpakkam	94
23	Kanpur	83
24	Kharagpur	96
25	Kochi	316
26	Lote	51
27	Lucknow	44
28	Mangalore	77
29	Mumbai	881
30	Nadiad	30
31	Nagpur	88
32	Northern	471
33	Paradeep	40
34	Pilani	30
35	Pondicherry	35
36	Pune	244
37	Rourkela	52
38	Sriharikota	26
39	Trivandrum	151
40	Vapi	60
41	Waltair	240

The following organizations were Organizational Members of the Institute upto March 31, 2020:

Permanent Organisational Members – Industry	
1	Alkyl Amines Ltd
2	Artemis Biotech Ltd., Mumbai
3	Asian Paints Ltd., Mumbai
4	Avon Organics Ltd., Hyderabad
5	Bentley Systems India Pvt. Ltd., Mumbai
6	Birla Cellulosic, Bharuch
7	Blast Carboblocks Pvt. Ltd., Navi Mumbai
8	Deepak Fertilisers & Petrochemicals Corporation Ltd., Pune
9	Development Organization for Sustainable Transformation, Chandigarh
10	Dr Reddy's Laboratories Ltd., Hyderabad
11	Excel Industries Ltd., Mumbai
12	Firechem, Faridabad



13	Golden Chemicals (I) Ltd., Mumbai
14	Gujarat Alkalies & Chemicals Ltd., Baroda
15	Gujarat Heavy Chemicals Ltd., Veraval
16	Haldia Petrochemicals Ltd., Haldia
17	Haldor Topsoe International A/S, New Delhi
18	Heavy Water Board, Mumbai
19	Hercules Speciality Chemicals (India) Pvt. Ltd., Bangalore
20	Herdillia Chemicals Ltd., Mumbai
21	Hetero Drugs Ltd., Hyderabad
22	Hikal Ltd., Taloja, Maharashtra
23	Hindustan Dorr-Oliver Ltd., Mumbai
24	Hindustan Latex Ltd., Thiruvananthapuram
25	Indian Oil Corporation Ltd., Refinery Division, New Delhi
26	Jacobs H&G Pvt. Ltd., Mumbai
27	Kavaerner Powergas India Ltd., Mumbai
28	Kavin Engineering & Services Pvt. Ltd., Coimbatore
29	Labindia Instruments Pvt. Ltd., Thane
30	Llyod's Register of Shipping, New Delhi
31	Mecon Ltd., Ranchi
32	MMTC-PAMP India Pvt. Ltd., New Delhi
33	National Organic Chemicals Industries Ltd., Mumbai
34	Novo Iresc India Private Ltd., New Delhi
35	Oil and Natural Gas Corporation Ltd., Dehradun
36	Oster Chemical & Pharmaceutical Works Pvt. Ltd., Kolkata
37	Pidilite Industries Ltd., Mumbai
38	RPG Life Sciences Ltd., Mumbai
39	Sartorius India Pvt. Ltd., Bangalore
40	Themis Medicare Ltd., Mumbai
41	Toyo Engineering India Ltd., Mumbai
42	TUV Suddeutshland Ltd., Mumbai
43	United Phosphorus Ltd.,
44	Vical Inc., USA

<b>Permanent Organisational Members – Research &amp; Educational Institutes</b>	
1	Annamalai University, Annamalai Nagar
2	Assam Engineering College, Guwahati
3	Bineswar Brahma Engineering College, Assam
4	Central Leather Research Institute, Chennai
5	Central Salt & Marine Chemicals Research Institute, Bhavnagar
6	Chaitanya Bharathi Institute of Technology, Hyderabad
7	Dibrugarh University Institute of Engineering and Technology, Dibrugarh
8	Gharda Institute of Technology, Ratnagiri
9	HBTI, Kanpur
10	Haldia Institute of Technology, Haldia
11	Heritage Institute of Technology, Kolkata
12	High Energy Material Research Laboratory, Pune
13	IIIT Nuzvid, Rajiv Gandhi University of Knowledge Technologies, Nuzvid
14	Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu
15	Indian Institute of Chemical Technology, Hyderabad
16	Indian Institute of Petroleum & Energy, Visakhapatnam
17	Indian Institute of Technology, Guwahati
18	Indian Institute of Technology, Kharagpur
19	Indore Institute of Science and Technology, Indore
20	JNTUA College of Engineering, Anantapur
21	KLE DR. M. S. Sheshgiri College of Engineering & Technology, Belgaum
22	Mahatma Gandhi Mission's College of Engineering & Technology, Navi Mumbai
23	Mohamed Sathak Engineering College, Kilakarai
24	Nandha Engineering College, Erode
25	National Chemical Laboratory, Pune
26	National Institute of Technology, Trichirapalli
27	National Institute of Technology, Durgapur
28	National Productivity Council, Chennai

29	Nuclear Fuel Complex, Hyderabad
30	SSBT's College of Engineering & Technology, Jalgaon, Maharashtra
31	Sathyabhama Engineering College, Chennai
32	Shivaji University, Vidyanagar, Maharashtra
33	Guru Gobind Singhji Institute of Engineering & Technology, Nanded, Maharashtra
34	RVR & JC College of Engineering, Guntur
35	Regional Research Laboratory, Jorhat
36	St. Joseph's College of Engineering, Chennai
37	SSN College of Engineering, Tamil Nadu
38	Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu
39	Swami Ramananda Tirtha Institute, Nalgonda
40	Vikram Sarabhai Space Centre, Thiruvananthapuram
41	Institute of Chemical Technology, Mumbai
42	University College of Technology Osmania University, Hyderabad
43	University Institute of Chemical Technology, North Maharashtra University, Jalgaon
44	Sir Visvesvaraya Institute of Technology, Nasik
45	Shivajirao S. Jondhale College of Engineering, Thane

14	Diamines & Chemicals Ltd., Baroda
15	Engineers India Ltd., New Delhi
16	Epsilon Carbon Pvt. Ltd., Mumbai
17	Fertilizers and Chemicals Ltd., Secunderabad
18	Garg Lab Glass Industries, Vapi, Gujarat
19	Gas Authority of India Ltd., New Delhi
20	Gujarat Ambuja Cements Ltd., Kodinar
21	Gujarat Insecticides Ltd., Ankleshwar
22	Gujarat Narmada Valley Fertilizers Co. Ltd., Narmadanagar
23	Gujarat Sidhee Cement Ltd., Veraval
24	Gujarat State Fertilizer & Chemicals Ltd., Vadodara
25	Heavy Water Plant, Tuticorin
26	HEL India Ltd., Thane
27	Heubach Colour Pvt. Ltd., Ankleshwar
28	Hindustan Antibiotics Ltd., Pune
29	Hindustan Insecticides Ltd., New Delhi
30	Hindustan Organic Chemicals Ltd., Rasayani, Maharashtra
31	Hindustan Paper Corporation Ltd., Calcutta
32	Indian Petrochemical Corporation Ltd., Baroda
33	Indian Rayon Ltd., Veraval, Gujarat
34	Kevin Enterprises Pvt. Ltd., Mumbai
35	Mafatlal Industries, (Navine Flourine Industries – Chemical Division) Mumbai
36	Narmada Chematur Petrochemicals Ltd., Varuch
37	Nuchem Ltd., Faridabad
38	Saurashtra Cement Ltd., Gujarat
39	Sayantana Consultants Pvt. Ltd., Calcutta
40	Search Chem Industries Ltd., Jhagadia
41	Shriram Alkali & Chemicals, Bharuch
42	Shriram Fertilizers & Chemicals, Kota
43	SMPS Consultants LLP, Ahmedabad
44	Southern Petrochemical Industries Corp. Ltd., Chennai
45	Sun Pharmaceutical, Panoli
46	Surya Organics and Chemicals, Ankleshwar
47	Standard Industries Ltd., Mumbai
48	Standard Certification Council Pvt. Ltd., Mumbai

#### Annual Organisational Members – Industry

1	Andhra Sugar Ltd., Tanuku
2	Aventis Pharma Ltd., Bharuch
3	Beta Concepts, Hyderabad
4	Bharat Aluminium Co. Ktd., Korba
5	Bharat Petroleum Corporation Ltd., Mumbai
6	Bharuch Enviro Infrastructure Ltd., Ankleshwar
7	Birla VXL Ltd., Porbandar (Saurashtra Chemicals Ltd.)
8	Chemfab Alkalies Ltd., Pondicherry
9	Cheminova India Ltd., Bharuch
10	Chemplast Saanmar Ltd., Chennai
11	Coromondal Fertilizers Ltd., Secunderabad
12	DCW Ltd., Dharanghra, Gujarat
13	Deepak Nitrite Ltd., Nandesari Gujarat

49	TCP Ltd., Chennai
50	Tata Chemicals Ltd., Mithapur
51	Textile Rubber & Chemical Co Pvt Ltd., Bhadohi
52	Trident Alco-Chem Ltd., Ludhiana
53	Vihita Chem Pvt. Ltd., Ankleshwar
54	Zuari Agro Chemicals Ltd., Zuarinagar, Goa
55	Zandu Chemicals Ltd., Ankleshwar

Year	Semester	No. Appeared	No. Passed	% of successful candidates
2010	March	56	48	85.71
	September	32	25	78.12
2011	March	53	51	96.22
	September	40	40	100.0
2012	March	56	51	91.07
	September	48	36	75.0
2013	March	80	68	85.0
	September	82	70	85.36
2014	March	48	46	95.83
	September	44	39	88.63
2015	March	54	50	92.59
	September	30	25	83.33
2016	March	62	58	93.55
	September	36	31	86.11
2017	March	31	28	90.03
	September	22	19	86.04
2018	March	47	43	91.48
	September	47	44	93.62
2019	March	26	25	96.15
	September	26	26	100.0

#### Annual Organisational Members – Research & Educational Institutes

1	Amal Jyothi College of Engineering, Kerala
2	Dalmia Institute of Scientific & Industrial Research, Rajganpur, Orissa
3	S M Engineering Institute, Kymore
4	St. Peter's Engineering College, Chennai
5	MVJ College of Engineering, Bangalore
6	Sriram Engineering College, Tamil Nadu
7	Arulmigu Meenakshi Amman College of Engineering, Tamilnadu

#### 9.0 Associated Membership Examination

The number of candidates who appeared at the Institute's Associate Membership Examination during the last 10 years is provided below:

Year	No. of Candidates
2010	2222
2011	2406
2012	2495
2013	2283
2014	1872
2015	1427
2016	1206
2017	1083
2018	843
2019	454

The number of candidates who appeared at the final part (Part III) of the Institute's Associate Membership Examination during the last 10 years is as follows:

#### Associated Membership Examination Results

i. Out of the 47 candidates who appeared in September 2018 Examination, the following 44 candidates came out successfully.

Sl No	Name	Roll No.
1	Sri Prateek Verma	02/M8/143
2	Sri Amal Shridhar Pande	04/S4/13
3	Sri Kaushikbhai T. Patel	04/S4/114
4	Sri Rakeshkumar S.Panchal	05/S5/396
5	Sri Uma Shankar Arya	06/M6/120
6	Sri Bikram Singh	08/M8/112

7	Sri Ram Pravesh Singh	08/M8/140
8	Sri Jaysing M. Parade	08/M8/190
9	Sri Jaywant Mahadeo Shivdas	08/S8/356
10	Sri Sukesh Chandra Mal	09/M9/184
11	Sri Partha Narh	09/M9/264
12	Sri Alpesh G. Kheratkar	09/S9/391
13	Sri Dara Kranthi Kumar	10/M10/7
14	Sri Awinash Kumar	10/M10/160
15	Sri Manmay Das	10/M10/207
16	Sri Satyajit De	10/M10/233
17	Sri Mukesh Sharma	11/M11/17
18	Sri Akhilesh Kumar Mishra	11/M11/73
19	Sri Prasun Paul	11/M11/136
20	Sri Venkatesh Behara	11/M11/218
21	Sri Sanjay Kumar	11/M11/241
22	Sri Paramanand	11/M11/281
23	Sri Sunil Kumar Yadav	11/S11/432
24	Sri Subash Yadav	11/S11/443
25	Sri Jagdish Singh Chauhan	11/S11/537
26	Sri Vikash Kumar	11/S11/551
27	Sri Bishwanath Kumar Ram	12/M12/127
28	Sri Dhanvendra	12/M12/237
29	Sri Kaushiklal L. Monpara	12/S12/302
30	Sri Krashanvir Singh	12/S12/397
31	Sri Santosh Kumar Chauhan	13/M13/3
32	Miss.Auxily Vidhya .M	13/M13/22
33	Sri Vijay Babu Mishra	13/S13/310
34	Sri Vishal Prafulchandra Viranee	14/M14/15
35	Sri Akhilesh Kumar	14/M14/188
36	Sri Shridhar Suryakant Sawant	14/S14/259
37	Sri Narayan M. Bengeri	15/M15/46
38	Sri Girja Shankar	15/M15/99
39	Sri Chandan Kumar Pandey	15/M15/116
40	Sri Kamesh Kumar	15/S15/203

41	Sri Praphulla Saxena	16/M16/5
42	Sri Ravi Prakash Singh	16/M16/12
43	Sri Sandeep Chandrakant Pujari	16/M16/17
44	Sri Abhinav	16/M16/24

ii. Out of the 29 candidates who appeared in March 2019 Examination, the following 25 candidates came out successfully.

SI No	Name	Roll No.
01	Sri Anurag Mishra	06/M6/21
02	Sri Yadvendra Dubey	07/M7/141
03	Sri Harpal Singh	08/M8/171
04	Sri Sakthivel Somasundaram	08/S8/263
05	Sri N.Selvaraj	08/S8/330
06	Sri Korukonda Ganesh	08/S8/423
07	Sri Rajesh Jain	09/M9/157
08	Sri Satya Ranjan Panda	11/M11/184
09	Sri Naresh Kumar	11/M11/216
10	Sri Sarman Singh Paraste	12/M12/135
11	Sri Biswajit Maity	12/M12/170
12	Sri Gundarapu Gangadhar	12/M12/171
13	Sri Mewada Mehulkumar S	12/S12/281
14	Sri Lakkaraju Mahesh	12/S12/334
15	Sri Manmay Das	10/M10/207
16	Sri Satyajit De	10/M10/233
17	Sri Mukesh Sharma	11/M11/17
18	Sri Akhilesh Kumar Mishra	11/M11/73
19	Sri Prasun Paul	11/M11/136
20	Sri Venkatesh Behara	11/M11/218
21	Sri Sanjay Kumar	11/M11/241
22	Sri Paramanand	11/M11/281
23	Sri Sunil Kumar Yadav	11/S11/432
24	Sri Subash Yadav	11/S11/443
25	Sri Shiv Kumar Kushwaha	17/S17/158

## 10.0 IChE Awards 2019

Following is the list of IChE Awards, which were presented on the occasion of CHEMCON 2019 at New Delhi in recognition of eminence and excellence in various spheres of chemical engineering profession and education. The list of awardees is also provided.

Sl. No.	Name of the Awards/Prizes	Awardees of the Year
1.	Dr.B.P.Godrej Life Time Achivement Award	Prof Y B G Varma Revered Academic and Distinguished Chemical Engineer
2.	Solenis Bharat Ratna Prof C N R Rao Medal and Chemcon Distinguished Speaker Award	Professor G D Yadav Vice Chancellor, Institute of Chemical Technology, Mumbai
3.	RPG Life Science Padma Vibhushan Prof M M Sharma Medal and Chemcon Distinguished Speaker Award	Dr Ajay Kumar Dalai University of Saskatchewan, Canada
4.	Asian Paints Padma Vibhushan Dr R A Mashelkar Medal and Chemcon Distinguished Speaker Award	Professor Flavio Manenti Milano, Italy
5.	Deepak Group's Padma Bhushan Prof L K Doraiswamy Chemcon Distinguished Speaker Award	Professor Anton Kiss University of Manchester, UK
6.	Chemical Weekly's Padmashri Dr G P Kane Chemcon Distinguished Speaker Award	Dr D Hueglin BASF
7.	Hetero Drugs Prof G S Laddha Chemcon Distinguished Speaker Award	Dr S P Chaurasia MNIT, Jaipur
8.	CSIR-IICT-Avon Padmashri Dr G S Sidhu Chemcon Distinguished Speaker Award	Professor K K Pant IIT Delhi
9.	CSIR-CSMCRI Chemcon Distinguished Speaker Award	Dr Jayant Kumar Singh IIT Kanpur
10.	Sartorius India's Chemcon Distinguished Speaker Award	Mr Hirak Dutta Nayara Enegy Ltd
11.	UPL Smt Sandra R Shroff Chemcon Distinguished Speaker Award	Dr D Rajkumar Director, Indian Rubber Manufacturers Association
12.	Hikal's Chemcon Distinguished Speaker Award	Mr Martin Skov Skjoth Rasmussen VP, Halder Topsoe, Denmark
13.	CSIR-CLRI Padmabhushan Dr Y Nayudamma Chemcon Distinguished Speaker Award	Dr Debasish Kuila North Carolina A&T State University, U.S.
14.	DOST Professor S K Sharma Medal and Chemcon Distinguished Speaker Award	Dr S Nand Fertiliser Association of India, New Delhi
15.	CSIR-NEERI Chemcon Distinguished Speaker Award	Dr Vimal Chandra Srivastava IIT, Roorkee
16.	CSIR-NCL's Professor K Venkataraman Chemcon Distinguished Speaker Award (Biennial)	Dr Vishnu Pareek Curtin University, Australia
17.	Labindia's Padma Bhushan Professor R Kumar Chemcon Distinguished Speaker Award (Biennial)	Mr Rakesh Kumar Mittal GAIL, Ltd.

18.	Shah-Schulman Award 'for the best Ph.D. thesis in the area of Colloid and Interface Science'	Dr Karthika Suresh University of Minnesota, USA
19.	Lala Shriram National Award for Leadership in Chemical Industry	Mr Rajendra Gogri Chairman and Managing Director Aarti Industries Ltd., Maharashtra
20.	Herdillia Award for Excellence in Basic Research in Chemical Engineering	Dr Sundergopal Sridhar IICT Hyderabad
21.	Prof Shyamal Kanti Sanyal Memorial Award for the best PhD Thesis in the Area of Membranes Research with Significant Commercial Potential	Dr. Sarita Kalla Government Polytechnic College, Rajasthan
22.	Dr A V Rama Rao Fndn Best Ph D Thesis and Research in Chemical Engineering/Technology	Dr Sonal Malaviya National Institute of Technology Jaipur And Professor K K Pant IIT Delhi
23.	The Chemical Weekly Prize for Best Research Paper published in a High Impact Factor International Journal by an Undergraduate Chemical Engineering Student (First and Second Prizes)	<u>1<sup>st</sup> Prize</u> Ms Tejaswini Makarand Deshpande Institute of Chemical Technology, Mumbai  <u>2<sup>nd</sup> Prize</u> Ms Smita Shivraj Dasari Osmania University, Hyderabad
24.	Chemical Weekly Award for the Best Paper Published in the Institute's Journal (ICE-2018)	Shyamal Roy Chanchal Mondal and Aritra Das Jadavpur University, Kolkata
25.	IICHe NRC Award Best Paper in "Indian Chemical Engineer" 2018	Shyamal Roy, Chanchal Mondal and Aritra Das Jadavpur University, Kolkata
26.	The Kuloor Memorial Award to the best technical paper published in the journal of the Institute in the issues of the preceding year	Shyamal Roy, Chanchal Mondal and Aritra Das Jadavpur University, Kolkata
27.	IICHe NRC Award 2 <sup>nd</sup> Best Paper in "Indian Chemical Engineer" 2018	Sangita Bhattacharjee HIT, Kolkata  Siddhartha Moulik IICT, Hyderabad and  Aditi Mullick IIT, Kharagpur
28.	Sisir Kumar Mitra Memorial Award to the second best technical paper published in the journal of the Institute in the issues of the preceding year	Sangita Bhattacharjee HIT, Kolkata  Siddhartha Moulik IICT, Hyderabad and  Aditi Mullick IIT, Kharagpur
29.	IICHe NRC Award 3 <sup>rd</sup> Best Paper in "Indian Chemical Engineer" 2018	Chandrakant Sharad Bhogle and Anituddha B Pandit ICT, Mumbai



30.	Kishore K Das Memorial Prize for securing highest marks in Part-III (Home Paper) Associate Membership Examination of the Institute	<p>AMIIChE Exam held in September 2018 Mr Paramanand Gujarat Refinery, Vadodara</p> <p>AMIIChE Exam held in March 2019 Mr Vikas Chourasiya Gujarat Refinery, Vadodara</p>
31.	Prof D K Guha Award for AMIIChE Candidates	Mr Shiv Kumar Kushwaha Ordnance Factory, Dist. Chandrapur (M.S.)
32.	N R Nandi Memorial Prize	Mr Anurag Mishra P.O. Panipat Refinery, Dist. Panipat
33.	M P Chary Memorial Award	Mr Saurabh Gurunath Kalghatgil CT, Mumbai
34.	Late Lakshmi Nandakumar Award of the Institute for best presentation in Schemcon 2017 by a Lady Student	Ms Shraddha Pandya SRICT, Ankleshwar
35.	Gouri Dutta Award for the Best Paper presentation in Schemcon 2017 of the Indian Institute of Chemical Engineers	Mr Jignesh Rajendrakumar Joshi GEC, Valsad
36.	Ambuja's Young Researcher's Awards for doing Post-Graduate Studies in India after GATE Examination (Ten Prizes)	<p>Ms Vaishali VICT, Mumbai</p> <p>Ms Sudha Ramanil CT, Mumbai</p> <p>Ms Nandita Sarafi CT, Mumbai</p> <p>Ms Aviti Katare IIT Guwahati</p> <p>Ms Shireesha Pilli UCT, OU, Hyderabad</p> <p>Ms Jella Soumya UCT, OU, Hyderabad</p> <p>Mr Botla Madhu UCT, OU, Hyderabad</p>
37.	Ambuja's Best Student Chapter Award (2 Prizes)	<p><u>1<sup>st</sup> Prize</u> IChE Student Chapter SSN College of Engineering Kalavakkam</p> <p><u>2<sup>nd</sup> Prize</u> IChE Student Chapter Sri Venkateswara College of Engineering Pennalur, Sriperumbudur</p>
38.	Pidilite's Best Student Chapter Award	IChE Student Chapter Shroff S R Rotary Institute of Chemical Technology Bharuch

39.	Best Regional Centre Award (3 Prizes)	<u>Category "A" Best</u> Hyderabad Regional Centre, IChE <u>Category "B" Best</u> Trivandrum Regional Centre, IChE <u>Category "B" Second Best</u> Guwahati Regional Centre, IChE
40.	Prof.P.Sen Gupta Award for Best Employee of the Year	Mr D Mandal IChE, Kolkata
41.	Honorary Fellow	Prof Lalit Kumar Awasthi
42.	Fellow	1. Prof Vinay K Srivastava 2. Dr Chithapudi Eswaraiiah 3. Prof Sanjoy Ghosh 4. Mr Praveen Saxena 5. Prof Shishir Sinha

### 11.0 Students' CHEMCON (SCHEMCON)

The 15<sup>th</sup> Annual Session of Students' CHEMCON (SCHEMCON) 2019 was organised by the IChE Student Chapter at the Department of Chemical Engineering, Shroff S R Rotary Chemical Institute of Technology (SRICT), Balia, Ankleshwar under the aegis of the Ankleshwar Regional Centre, IChE on 17 and 18 October 2019. The Chief Guest for the inaugural programme on 17 October was Padma Vibhushan Prof M M Sharma, renowned chemical engineer and academic as well as former Director of ICT, Mumbai. Other dignitaries on the dais were Prof. S. V. Satyanarayana, President (2019), IChE; Mrs Sandra R Shroff, Chairman, Ankleshwar Rotary Education Society (ARES); Mr Ashok Panjwani, Vice Chairman, Ankleshwar Rotary Education Society; Dr Snehal Lokhandwala, Principal, SRICT; Prof Alok Gautam, HoD, Chemical Engineering, SRICT; Mr S I Thakar, Chairman of Ankleshwar Regional Centre, IChE; Mr A I Shaikh, Hony Secretary, Ankleshwar Regional Centre, IChE; Dr Shina Gautam, Organizing Secretary; and; Mr Krunal Suthar, Joint Organizing Secretary.

The Principal of SRICT gave the Welcome Address and an introduction about SRICT. The inaugural ceremony concluded with a Plenary Lecture by Prof M M Sharma. Prof. Sharma delivered the lecture on 'Chemical Engineering for the Changing Scenario of Chemical Industry'. On the second day (18 October), the second Plenary Lecture was delivered by Padma Bhushan Prof J B Joshi on 'Innovate to transform'.

A total of 534 students from 124 educational institutes, including IITs, NITs, universities and colleges, from all across India participated in SCHEMCON 2019. As many as 215 papers were presented. A total 11 Oral sessions and 5 poster sessions were organized. Forty-two eminent persons from

industries and academia as well as the IChE Council Members chaired Oral and Poster sessions.

On 18 October, an Institute-Industry interaction session was organised where more than 200 students participated. Industry was represented by Mr Praveen Saxena and Mr Dhawal Saxena from Blast Carboblocks Ltd.; Dr P N Parmeswaran from UPL; Mr Rilesh Mehta from Solvay industries, etc. an Industry Visit was also undertaken by 243 students. Each group of 45-50 students visited Sajjan India, Ankleshwar; Godrej Industries; Valia, Ankleshwar; Lupin, Ankleshwar; BEIL Infrastructure Ltd., Ankleshwar and Enviro Tech Ltd, Ankleshwar.

A cultural evening was also held at the venue in which students presented various renditions, which was highly enjoyed by the audience.

SCHEMCON 2019 came to a conclusion with the valedictory function, in which several IChE awards under various categories were presented to the students.

### 12.0 Library

The library at the Headquarters of the Institute in Kolkata has a stock of approximately 995 books. It receives around 60 issues of weekly journals, seven (7) issues of quarterly journals, nine (9) issues of bimonthly journal and 55 issues of monthly journals.

### 13.0 Regional Centre Affairs

Besides R&D related activities, Regional Centres and the Student Chapters under the aegis of the Regional Centres conduct various other programmes for skill enhancement, awareness building, networking, publicity, etc. An account of such activities is presented below. For Regional Centres, the one-year period pertains to July 2019 – June 2020.

### Regional Centre Activities not related to R&D

Name of Regional Centres	Activities
<b>Ahmedabad</b>	<p><b>a) Membership Drive:</b> The Regional Centre has started the drive and informing all the Chemical Engineers to become member in Indian Institute of Chemical Engineers.</p> <p><b>b) Annual General Meeting</b> AGM was planned online on 30.07.2020 at 5 p.m. Many members have joined. Very good suggestions were received from members and lot of discussion and brain storming took place.</p> <p><b>c) Accounts for the FY 2019-20</b> Accounts for 2019-20 are audited by M/s. BJS &amp; Associates. Auditor has not charged for the same. We are very much thankful to them. Audited accounts of Ahmedabad Regional Centre sent to headquarters on 26.07.2020 by email.</p>
<b>Amaravati</b>	<p><b>a) Financial Support by IChE Members</b> During the FY 2019-20 ARC EC Members and other Members donated Rs.70,000/- to the Endowment Fund in the name of Prof M Venkateswara Rao and the same amount was deposited in the bank account. With the addition of Rs.70,000/- the total amount deposited (Fixed Deposit) in the bank to the Endowment Fund in the name of Prof M Venkateswara Rao becomes Rs.4,20,000/- only. Mr Ravuri Ravindra and Alumnus of RVR&amp;JC College of Engineering donated Rs.2,000/- to organize ARC activities during the financial year. To promote the student chapter activities, it is resolved (depending on the availability of Fund) to sponsor student files/kits worth Rs.12,000/- to Rs.15,000/- to any student chapter, which is willing to organize one/two day student activities in association with ARC. As per resolution, ARC sponsored the student files worth Rs.11,000/- to RVR&amp;JC Student Chapter to organize two day National Seminar ChECK 2020 during 26-27 February 2020.</p> <p><b>b) IChE Foundation Day</b> Every year 2<sup>nd</sup> November the birth day of Dr H L Roy is celebrated as IChE Foundation day. This year the 131<sup>st</sup> birth anniversary of Dr H L Roy was celebrated by ARC on 02.11.2019 at RVR&amp;JC College of Engineering.</p>
<b>Ankleshwar</b>	<p><b>Annual General Meeting &amp; Get-together</b> AGM cum Get-together was organized with family members. Dignatories from industries like ONGC, GNFC, Lupin, Godrej, BEIL, Jhagadia Industries Association were felicitated. Felicitations of students of IChE ARC family members, who achieved excellent performance either in academics/sports/cultural/co-curricular activities (14 nos.) was organized.</p>
<b>Baroda</b>	<p><b>Annual General Meeting</b> IChE BRC Office Bearers and committee members participated in the AGM for 2019-20 on 22.06.2019. BRC issued a bulletin which covered glimpses of various programmes conducted in the year.</p>
<b>Calcutta</b>	<p><b>a) Annual General Meeting</b> The AGM of Calcutta Regional Centre was held on 22.06.2019.</p> <p><b>b) Dr H L Roy's Birthday</b> 131<sup>st</sup> Birthday of Dr H L Roy was celebrated on 02.11.2019. Prof Chiranjib Bhattacharjee Chaired the programme.</p>

	<p><b>c) Annual Family Get-together</b></p> <p>The Annual Family Get-together was successfully organized on 15.02.2020. More than 50 participants joined the day long programme. Student members from HIT made the day entertaining with a variety programme.</p> <p><b>d) CRC Website Restoration &amp; Maintenance</b></p> <p>Website of CRC was reinstated. Relevant information were uploaded and routing maintenance and uploading of upcoming events, notices and circulars were carried out.</p> <p><b>e) COVID-19 Pandemic &amp; Operations of Calcutta Regional Centre</b></p> <p>Due to Covid-19 Pandemic and declaration of Lockdown by Govt. of India CRC Office was closed from 19.03.2020. CRC office was sanitized on 08.06.2020 after the building was sanitized by Jadavpur University. CRC office started functioning from 09.06.2020 for three days in a week only till health situation normalizes.</p>
<b>Dhanbad</b>	<p><b>Annual General Meeting</b></p> <p>The AGM of Dhanbad Regional Centre was held on 24.07.2020 through Google Meet. Prof Vineet Kumar Chaired the meeting.</p>
<b>Guwahati</b>	<p><b>Annual General Meeting</b></p> <p>The AGM of Guwahati Regional Centre was held on 23.07.2020 through weblink.</p>
<b>Kanpur</b>	<p><b>a) Annual General Meeting</b></p> <p>The AGM of Kanpur Regional Centre was held on 08.06.2019. Prof R K Trivedi Chaired the meeting. Only 10 members were present. The meeting was thus adjourned on account of lack of quorum for 15 minutes. The Post adjournment AGM was again held on 17.06.2019. Prof R K Trivedi, Chairman, KRC, presided over the meeting.</p> <p><b>b) CHEMCON-2021</b></p> <p>A General Body Meeting of KRC was organized on 17.01.2020 immediately after receipt of confirmation from IChE HQ on proposal to organize CHEMCON-2021 in Kanpur. The meeting was attended by Prof P De (former President, IChE) and Mr B Chattopadhyay, CEO of IVL Dhunseri Petrochem Industries Pvt. Ltd. who were happened to be in Kanpur on a business trip. Both of them joined as special invitees to the meeting.</p>
<b>Mumbai</b>	<p><b>a) Annual General Meeting</b></p> <p>The AGM of Mumbai Regional Centre held on 08.08.2020 through Google meet.</p> <p><b>b) Founder's Day Celebration</b></p> <p>The 131<sup>st</sup> Birthday of Dr H L Roy was celebrated on 09.11.2019.</p>
<b>Nagpur</b>	<p><b>Executive Committee Meetings</b></p> <p>Four executive committee meetings were held to discuss various issues pertaining to the development of Nagpur Regional Centre and Student Chapters. The meetings were held at NEERI, Nagpur as well as student chapters. As per the instruction received from HQ the same executive committee will continue for the year 2020-21.</p>
<b>Northern</b>	<p><b>a) Annual General Meeting</b></p> <p>The 46<sup>th</sup> AGM was held on 13.07.2019 at the Auditorium of IChE-NRC Building.</p> <p><b>b) IChE Associate Membership Examination</b> was held at NRC Building during September 2019 and March 2020.</p> <p><b>c) Foundation Day of NRC</b></p> <p>The Foundation day programme was held on 15.02.2020 in the auditorium of NRC.</p>

<b>Pilani</b>	<p><b>a) Annual General Meeting</b> Honorary Regional Secretary discussed the activities conducted during the FY 2019-20 and presented the Annual Report.</p> <p>b) Members appreciated the IChEHQ for the initiative of consolidated contribution to PMCARES Fund and approved to make a donation from the PRC.</p> <p>c) Members also expressed that BITS Pilani Student Chapter membership enrolment drive has to be conducted for increasing the participation of students in the IChE.</p>
<b>Roorkee</b>	<p><b>Newly Formed</b> Office Bearers and EC Members were elected to carry out the activities of the RC.</p>
<b>Sriharikota</b>	Annual Activity for the FY 2019-20: NIL Annual Audited Accounts for the FY 2019-20: Account not opened in FY 2019-20. Hence NIL.
<b>Trivandrum</b>	<p><b>a) Annual General Meeting</b> The Annual General Meeting was held on 22.10.2019.</p> <p><b>b) Contribution towards PM CARE Fund</b> IChE-TRC EC agreed to donate Rs.10,000/- towards this cause and the same was transferred to HQ on 06.05.2020 by Mr Lakshman Y, Honorary Treasurer.</p> <p>c) IChE Gold Medal Award and Family get-together function was held on 25.01.2020</p> <p>d) Website of IChE-TVRC was ready by August 2019 and was inaugurated during IChE Gold Medal Award and Get-together Function.</p>
<b>Vapi</b>	Mr S S Pokale, Honorary Regional Secretary, gave the activity report for the year 2019-20. For the first time in the history of Vapi Regional Centre, since its inception, a Student Chapter was formed in the Chemical Engineering Department of Govt. Engineering College, Valsad. The inauguration function of GECV was held on 01.10.2019 in the college premises.

The lists of Executive Committee Members for July 2019 - June 2020 as received from the respective Regional Centres are presented below :

#### **Ahmedabad Regional Centre**

##### **Committee:**

**Chairman:** Dr Sachin Parikh, **Honorary Regional Secretary:** Dr N M Patel, **Honorary Regional Treasurer:** Prof Satish R Shah, **Members:** Prof Rupande Desai, Prof R G Shah, Prof A P Vyas, Mr Mayank Parikh, Prof Dinesh Daga, Mr Dinesh Verma, Prof C G Bhagchandani, Mr Ashish Soparkar, **Co-opted Member:** Prof Ronak Patel and Mr Hemal Sheth

#### **Amaravati Regional Centre**

##### **Committee:**

**Chairman:** Mr J Murali Mohan, **Vice-Chairman:** Dr N Sambasiva Rao, **Honorary Regional Secretary:** Dr M Venkateswara Rao, **Honorary Joint Regional Secretary:** Mr R Banerjee Babu, **Honorary Regional Treasurer:** Dr K Ramesh Chandra, **Members:** Mr M Raghavaiah, Dr C V Subrahmanyam, Mr G Ranga Rao, Mr G Venu Babu, Dr Vinoth Kumar Raja, Mr M Rama Krishna, Dr P Bangaraiah, Ms P Vijetha Chowdhary, (**Immediate Past Chairman, Ex-officio**): Dr V Govardhana Rao, **Ex-officio (Immediate Honorary Jt Secretary, Ex-officio):** Dr J Srinivasa Rao, **Co-opted Members:** Dr T Subbaiah, Dr P Venkateswar, Mr N Jani Bhasha, **Invitees:** Dr A Suryanarayana, Dr K B K Rao, Mr E Pardhasaradhi, Mr K Siva Prasada Rao

#### **Ankleshwar Regional Centre**

##### **Committee:**

**Chairman:** Mr S I Thakar, **Vice-Chairman:** Mr B D Dalwadi (Ankleshwar, Panoli), Mr A K Jain (Jhagadia), Mr Pravindan Gadhavi (Ankleshwar, Panoli), Mr M I Shamsi (Bharuch), Mr Manoj Kamaliya (Dahej), **Honorary Regional Secretary:** Mr A I Shaikh, **Honorary Joint Regional Secretary:** Mr R R Khandpur, **Honorary Joint Regional Secretary-Dahej:** Mr Shantanu Das, **Honorary Joint Regional Secretary-Ankleshwar:** Mr Sunil Motiramani, **Honorary Joint Regional Secretary-Bharuch:** Mr D B Shah, **Honorary Joint Regional Secretary-Panoli:** Mr Rilesh Mehta, **Honorary Regional Treasurer:** Mr Snehal Tralsawala, **Members:** Mr P G Dave, Mr N B Saraiya, Mr Nitin Patel, Mr R R Khandpur, Mr Dinesh Patel, Mr Ashutosh Kumar Sigh, Mr Shashi Shekhar, Mr Ganesh R Sharma, Mr Dhruvi A Mahta & Mr B J Patel, **Co-opted Member:** Prof Dr Parimal A Parikh, Mr K H Pandit, Mr Rajesh Bhavsar, **Immediate past Chairman:** Mr A K Sahni

#### **Baroda Regional Centre**

##### **Committee:**

**Chairman:** Mr S Sridhar, **Vice-Chairman:** Mr R K Desai, **Joint Vice-Chairman:** Mr Nitin Bhate, **Honorary Regional Secretary:** Mr Nikhil U Tonapi, **Honorary Joint Regional Secretary:** Mr Kisalay Kumar, **Honorary Regional Treasurer:** Prof N M Surana, **Members:** Mr Subhajit Sarkar, Mr Brijesh Trivedi, Mr Rahul Dole, Mr Manish Shah, Mr Nikunj Parekh,

Mr Nikunj Jain, Mr Manan Joshi, Mr Shahbuddin Ahmed, Mr Mehul Patel, Mr Vipul Mehta, Mr Bhavin Shah

#### **Calcutta Regional Centre**

##### **Committee:**

**Chairman:** Prof Chiranjib Bhattacharjee, **Vice-Chairman:** Mr Kalyan Kumar Basu, **Honorary Regional Secretary:** Mr Abhijit Mitra, **Honorary Joint Regional Secretary:** Prof Ashit Mazumder, **Honorary Regional Treasurer:** Dr Avijit Ghosh, **Members:** Prof B N Srimani, Mr K K Das, Mr Sushanta K Roy, Prof Sudip Das, Dr Sangita Bhattacharya, Mr Goutam Mitra, **Co-opted Members:** Prof Rajat Chakraborty, Dr Baishali Rajbanshi and Prof Papita Das

#### **Dhanbad Regional Centre**

##### **Committee:**

**Chairman:** Prof Vineet Kumar, **Vice-Chairman:** Prof V K Saxena, **Honorary Regional Secretary:** Dr T K Naiya, **Honorary Regional Treasurer:** Dr Suman Dutta

#### **Guwahati Regional Centre**

##### **Committee:**

**Chairman:** Prof Anugrah Singh, **Vice-Chairman:** Prof Vaibhav Goud, **Honorary Regional Secretary:** Prof Subrata K Majumder, **Honorary Joint Regional Secretary:** Dr Ashim Basumatary, **Honorary Regional Treasurer:** Dr Ashok Kumar Dasmahapatra, **Members:** Prof Bishnupada Mandal, Prof Sasidhar Gumma, Prof Prabirkumar Saha, Dr Pankaj Tiwari, Dr Raghvendra Gupta, Prof Vimal Katiyar, Dr Prasanna Venkatesh, Dr Prakash Kotecha, Dr Anki Reddy Katha and Dr Ujwala Jujuri

#### **Kanpur Regional Centre**

##### **Committee:**

**Chairman:** Dr Deepak Srivastava, **Vice-Chairman:** Mr Manish Rajput, **Honorary Regional Secretary:** Dr Umesh Chandra Sharma, **Honorary Joint Regional Secretary:** Dr Ashwini Sood, **Honorary Regional Treasurer:** Mr Ashutosh Mishra, **Members:** Dr R K Trivedi (Ex-officio), Dr Santosh Kumar and Dr Rajesh Garg

#### **Mumbai Regional Centre**

##### **Committee:**

**Chairman:** Dr U Kamachi Mudali, **Vice-Chairperson:** Dr Anita Kumari, **Honorary Regional Secretary:** Mr Dhawal Saxena, **Honorary Regional Treasurer:** Mr Mahendra Patel, **Member:** Dr Aparna Tamaskar, Mr Ravindra K Joshi, Dr T L Prasad, Dr S Chitanvis, Mr Rajesh Jain, Mr V Y Sane, Dr Bibhash Chakravorthy, Mr Akash Shinde, Dr Sujit Jogwar, Dr Alpana Mahapatra, Dr Anand Patwardhan, **Editor IChE MR-E-Newsletter:** Mr Jagdish Nageshri

#### **Nagpur Regional Centre**

##### **Committee:**

**Chairman:** Dr G K Ghosal, **Vice-Chairperson:** Prof V S Sapkal, **Honorary Regional Secretary:** Dr A N Vaidya,

**Honorary Joint Regional Secretary:** Dr Y C Bhattacharyulu, **Honorary Regional Treasurer:** Dr R B Biniwale, **Member:** Dr T Chakrabarti, Dr S D Dawande, Dr S Mandavgane, Dr Chaurasiya, Dr K L Wasewar, Dr B G Bhotmange, Dr J S Mohite and Dr Vijay Kumar

#### **Northern Regional Centre**

##### **Committee:**

**Chairman:** Prof Anil Kumar Saroha, **Vice-Chairman:** Dr Sachchida Nand, **Honorary Regional Secretary:** Mr Abhijit Bikas Pal, **Honorary Joint Regional Secretary:** Mr Rajiv Narang, **Honorary Regional Treasurer:** Mr Anil Verma, **Members:** Prof V K Srivastava, Dr S N Chakravarty, Mr Shyam Bang, Mr R A Sinha, Mr D D Maheshwari, Prof S S Sambhi, Mr Subodh Sarin

#### **Pilani Regional Centre**

##### **Committee:**

**Chairperson:** Dr Smita Raghuvanshi, **Honorary Regional Secretary:** Dr Bhanu Vardhan Reddy Kuncharam, **Honorary Regional Treasurer:** Dr Abhisek S Dhoble, **Member:** Dr Hare Krishna Mohanta, Dr Arvind K Sharma, Dr Banasri Roy, Dr Pradipta Chattopadhyay, Dr Ajay Kumar Pani, Dr Srinivas Appari, Dr Priya C Sande, Dr Somak Chatterjee

#### **Pune Regional Centre**

##### **Committee:**

**Chairman:** Sanjay Kamble, **Honorary Regional Secretary:** Dr Suyogkumar Vijay Taralkar, **Honorary Regional Treasurer:** Dr Prafulla L Garge, **Members:** Dr Subhash Hari Vaidya, Er Prakash Patil, Mr Alok Pandit, Dr Vinay Bhandari, Dr C V Rode, Mr Milind Talathi, Dr Manik Deosarkar, Prof Somnath Nandi, Dr Shashank gaikwad, Mr G V Ukidve and Dr Utkarsh Maheshwari

#### **Roorkee Regional Centre**

##### **Committee:**

**Chairman:** Prof Shishir Sinha, **Vice-Chairman:** Prof V C Srivastava, **Honorary Regional Secretary:** Prof B Prasad, **Honorary Joint Regional Secretary:** Prof Vimal Kumar, **Honorary Regional Treasurer:** Prof Prakash Biswas, **Members:** Prof Prateek Jha, Prof N S M Raddy, Prof Shabina Khanam, Prof Amit Dhiman, Prof Hari Prakash and Prof Ashwini Kumar Sarma

#### **Sriharikota Regional Centre**

##### **Committee:**

**Chairman:** Mr P Kanakaraju, **Vice Chairman:** Mr Srinivas Babu N, **Honorary Regional Secretary:** Mr H Rajeev Singh, **Honorary Joint Regional Secretary:** Mr Sreekanth Annamgi, **Honorary Treasurer:** Mr Y Sreekanth Reddy, **Member:** Mr K V Suresh Babu, Ms Sangeetha K, Mr Susanta Kr Pradhan, Mr Girija S Behra, Ms M Praniitha, Ms K Ashwini and Mr K Raviprakash



## Trivandrum Regional Centre

### Committee:

**Chairman:** Mr Muraleekrishnan R, **Vice-Chairman:** Dr Shaneeth M, **Honorary Regional Secretary:** Mr Somnathan S, **Honorary Joint Regional Secretary:** Mr Rajesh E K, **Honorary Regional Treasurer:** Mr Lakshman Yalisala, **Member:** Mr Ajith Haridas, Dr K B Radhakriahhah, Dr K M Usha, Manikandan, Md Sadhik, Kiran Kumar, P Binuraj, Suresh Kumar, Koshore K G K, Arjun Raj M, Susmitha Kumari, **Permanent Invitee:** Mr Alwan S, Mr G Chandrasekharan, Mr M M Sreekumar, Mr S R Panicker, Mr Venugopal S, Mr P Sojan, Mr Manu SK, Mr Samir Kumar Das, Mr Gomathi and Mr Biju B

## Vapi Regional Centre

### Committee:

**Chairman:** Dr Hiten M Bhatt, **Vice-Chairman:** Mr Maulik J Desai, **Honorary Regional Secretary:** Mr Shashikant S Pokale, **Honorary Joint Regional Secretary:** Dr H M Hirpara, **Honorary Regional Treasurer:** Mr Vinod S Kashalikar, **Members:** Mr Arun Kootale, Mr Devidas K Khubchandani, Mr Jagdish U Parmar, Mr J R Shah, Mr Hasmukh K Doshi, Mr Kirit Shah, Mr Piyush Joshi, Mr Vijay Chhajed, Mr Shashidhar Gosi and Mr Uday R Marballi

## 14.0 Beyond March

As per convention, the Annual Report of the IChE Headquarters has covered activities of the Institute for the financial year April 2019 – March 2020. However, we deem it would be appropriate to keep our valued Members posted with the information about important activities of the Institute as well as a few major policy decisions, undertaken since the month of March 2020. This is especially significant for the current year because notwithstanding the unprecedented human crisis arising out of Covid-19 and the consequent lockdown in India and other countries, IChE continued to function spiritedly through virtual mode. As a matter of fact, it has been decided to gradually shift to digital platform altogether for communication between the Institute and its Members.

**i. Donation to PM Cares Fund (Covid-19):** In order to show solidarity and empathy with the nation during the unprecedented Covid crisis, the IChE Council Members made a collective contribution of Rs. 1,00,000/- to the PM Cares Fund through the Headquarters. This donation amount was adjusted by the Headquarters from the corpus of travel allowance that the Council Members for the 2020 are entitled to. Additionally, the Northern Regional Centre donated Rs. 10,000,00/-, Trivandrum Regional Centre donated Rs.10,000/- and Pilani Regional Centre donated Rs. 5,000/- to the Fund, which were also routed through the headquarters.

**ii. Essay Competition:** An online Essay competition was launched for the Student Members of IChE on the topic 'Role of Chemical Engineers to Combat COVID-19 Pandemic'. The competition was coordinated through the Student Chapters of IChE. As many as 150 students participated in the competition. The winners were awarded certificate and prize money, i.e., First Prize worth Rs 6000/-, Second Prize worth Rs. 5000/- and Third Prize worth Rs 4000/-, which were sponsored by the President and two Vice-Presidents, IChE.

**iii. OSIP-2020:** IChE embarked on a novel initiative, namely, 'Online Summer Internship Program-2020 (OSIP-2020)' on 23 May 2020. The Internship program continued in batches till 31 July 2020, with Dr. Avijit Ghosh, Hony. Secretary, IChE as its Convenor. It covered nine subjects, namely, i. Zero Liquid Discharge Management, ii. Six Sigma Training, iii. Chemical Process Technology, iv. Biochemical Process, v. Process Safety Management, vi. Petroleum Refinery Engineering, vii. Petrochemical Engineering, viii. Biochemical and Biomedical Engineering, and, ix. Biochemical Process. The program evoked tremendous response among the students with over 1800 students registering for it. Certificates were issued to the students who had submitted Assignment Report on the completion of the program.

The competent authority on the OSIP-2020 has decided to utilize the total revenue generated out of this training program in the following manner:

Sixty per cent (60%) of the revenue would be used to conduct training programs in future and create facility for a digital conference room at the Headquarters. A separate webpage and IChE Apps would be created for the training program and certificate course along with provision for online test and certificate printing.

Forty per cent (40%) will be kept in a fix deposit as a corpus fund for similar kinds of training program / certificate course in future, to be conducted by the Headquarters.

**iv. Online Voting for RCs:** The Council approved a proposal for introduction of online voting system in the Regional Centres by following the same module, used by the Headquarters. Since the latter has been successfully using an online voting system for the last three years, the suggestion was to lend the same module to the Regional Centres in lieu of a fee. This fund would be utilized for the annual maintenance of the online voting system.

**v. Publications:** A Facebook and a twitter profile have been created for the IChE journal, *Indian Chemical Engineer (ICE)* under the initiative of Prof. S. Basu, Honorary Editor, *ICE*. The Publication Committee of IChE has also decided to publish 5 issues of the journal in 2021 and 6 issues from 2022 onwards.

Amidst the Covid-19 crisis, a Special Issue of the IChE E-Newsletter was published containing a list and available contact details of the former IChE Presidents. Messages from a few of the Past Presidents were included as well. Details of the OSIP-2020 along with feedbacks from its Coordinators, Subject Experts and students were also published in the Special Issue.

**vi. Meet on Safety Management:** An important panel discussion was held digitally under the initiative of the Hyderabad Regional Centre on 'Best Practices of Safety Management in Chemical Industry' on 31 May 2020. Padmashri Prof. G.D. Yadav, Emeritus Professor of Eminence and Former Vice Chancellor, Institute of Chemical Technology, Mumbai graced the occasion as the Chief Guest and the moderator. Prof. V.V. Basava Rao, President, IChE was the Guest of Honour.

**vii. Bank A/c Reconciliation:** Work on reconciliation of bank accounts at the IChE Headquarters, which has been pending since 2015-16, is underway. This will be followed by final auditing.

**viii. HQ Building Renovation:** For several years, the IChE Headquarters building has been in a sorry state and in dire need of extensive renovation. Even though piecemeal repair work was undertaken on and off, the extent of damage has been steadily growing, affecting the entire structure. The condition of the building worsened further when Kolkata was ravaged by the super cyclone Amphan in May 2020. Accordingly, a major repairing and renovation work for the Headquarters building was undertaken during September – October 2020, giving it a much-needed facelift.

Initiatives have also been taken to upgrade facilities at the Headquarters for conducting digital (online) conferences. Moreover, the Council has decided to rent out unutilized space at the Headquarters building for academic purposes.

**ix. Vizag Gas Leak Mishap:** The Council constituted a committee comprising three of its Members, namely, Mr D M Butala, Dr T L Prasad and Dr G S V Ratnam, to study the unfortunate incidence of Styrene Monomer Leak at the LG polymers unit at Visakhapatnam on 7 May 2020 and prepare a technical report. The report would be submitted to the Council for publication in the IChE E-Newsletter.

**x. SCHEMCON 2020:** In a major deviation from the customary format, due to the Covid-19 pandemic, the 16th Annual Session of Students' CHEMCON (SCHEMCON 2020) was organized by the IChE Headquarters in virtual mode. Traditionally, SCHEMCON is organized by one of the Student Chapters across the country. Around 300 students participated in

SCHEMCON 2020. During the event, the IChE app and the dynamic website of the Institute were also launched.

**xi. CHEMCON 2020:** For the first time, breaking the convention of over seven decades, CHEMCON 2020 is being organized by the IChE Headquarters jointly with its Hyderabad Regional Centre during 27 – 29 December 2020 through virtual mode. CHEMCON 2020 will include under its umbrella events, such as, the three prestigious Memorial Lectures, Dhirubhai Ambani Commemoration Day, Technical Sessions, Panel discussions, etc.

#### List of IChE Meetings held in 2020

Council Meetings	Date
2 <sup>nd</sup> Meeting	29.02.20
3 <sup>rd</sup> Meeting	06.06.20
4 <sup>th</sup> Meeting	18.07.20
5 <sup>th</sup> Meeting	26.09.20
Emergent Council Meeting	16.08.20
Special Council Meeting	07.11.20

Council Office Bearers' Meetings	Date
1 <sup>st</sup> Meeting	03.05.20
2 <sup>nd</sup> Meeting	20.06.20

Extra-ordinary General Meeting	28.10.20
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Sub-committee Meetings	Date
1 <sup>st</sup> Building Committee Meeting	14.03..20
2 <sup>nd</sup> Building Committee Meeting	16.07.20
Emergency Building Committee Meeting	12.09.20
3 <sup>rd</sup> Building Committee Meeting	28.11..20
1 <sup>st</sup> CPSG Meeting	02.05.20

#### 15.0 Acknowledgement

The Council expresses its sincere thanks to the Honorary Office Bearers for spending much of their valuable time in rendering service to the Institute. The Council also appreciates the sincere work and utmost cooperation received from the members of the Headquarters staff of the Institute. Finally, the Council is indebted to all the donors, sponsors and well wishers for wholeheartedly supporting activities of the Institute.

**Avijit Ghosh**  
Honorary Secretary

**List of Corporate Members present at  
72<sup>nd</sup> (Seventy-Second) Annual General Meeting, IICHe – 2019**

<b>Sl.No.</b>	<b>Name</b>	<b>Membership No.</b>	<b>Sl.No.</b>	<b>Name</b>	<b>Membership No.</b>
1	Badrinarayana K A	LM 22739	26	Naik S C	LF 01720
2	Balasubramanian N	LM 27085	27	Pal Tapotanay	LM 66058
3	Bansal Ajay	LF 11337	28	Pant K K	LF 09309
4	Basava Rao V V	LM 11006	29	Paramanand	LAM 66749
5	Bhardwaj Sanjay	LM 56227	30	Patel Mahendra A	LM 35101
6	Butala D M	LM 03368	31	Pokale S Shashikant	LM 15602
7	Chakravarty S N	LF 10168	32	Prasad T L	LF 09599
8	Chaudhuri S K	LM 04567	33	Radhakrishnan K B	LM 20961
9	Das S K	LM 08450	34	Rajasimman M	LM 26997
10	Deb Barma Santosh	LAM 57421	35	Ranga Rao M	LM 09037
11	Eswaraiah C	LF – 42288	36	Rao D P	LM 04959
12	Ghosh Avijit	LM 50202	37	Ratnam G S V	LM 10189
13	Ghosh Sandip	LM 32074	38	Rattan Gaurav	LM 31348
14	Gupta S K	LM 19814	39	Rattan V K	LF 04433
15	Jain Ashok Kumar	LM 54688	40	Sapkal V S	LM 29723
16	Jain M P	LM 08262	41	Saroha Anil K	LF 27776
17	Jha M K	LF 09764	42	Satyanarayana S V	LM 13584
18	Kaul P L	LM 03110	43	Saxena Dhawal	LM 43343
19	Katti Sanjeev	LF - 20067	44	Saxena Praveen	LF 24415
20	Koteswara Rao M	LM 07691	45	Srivastava Vinay K	LF 07839
21	Kumar Kisalay	LAM 60839	46	Srivastava V K	LF 09483
22	Kumari Anita	LM 13544	47	Surana N M	LM 09108
23	Mahapatra A	LM 20164	48	Venkataswamy J	LM 46087
24	Maheshwari D D	LM 13524	49	Venkateswara Rao M	LM 06492
25	Mandal Bishnupada	LM 21472			

## Hyderabad Regional Centre

### Committee:

**Chairman:** Dr Sanjay Bhardwaj, **Vice Chairman:** Mr C P Ramulu, **Vice Chairperson:** Prof P Shashikala, **Honorary Regional Secretary:** Mr M Misra, **Honorary Joint Regional Secretary:** Mr S Ilaiah, **Honorary Regional Treasurer:** Mr D N Singh, **Members:** Mr MG V Chalapathi Rao, Mr M Ranga Rao, Mr E Venkatesham, Dr M Mukunda Vani, Mr Chokkahula Apparao, Dr Vineet Aniya, **Co-opted Members:** Mr Arun Anand, Mr Baiduraya Nath, **Permanent Invitees:** Prof V V Basava Rao, Prof S V Satyanarayana, Prof S Venkateshwar, Mr A Bhasker Reddy, Mr G V Sethuraman, Prof R Shyamsunder and Ms Sheela

Name of the Regional Centre	R&D Related Activities
Hyderabad	<p><b>a) Seminar</b></p> <ul style="list-style-type: none"><li>- On "Understanding Industry 4.0 and its Applications" held on 20.09.2019 at Nuclear Fuel Complex, Hyderabad. It was attended by over 130 delegates from industry, academic institutions and R&amp;D organizations.</li></ul> <p><b>b) International Conference RACE – 2020 organized by OUCT and IChE-HRC</b></p> <ul style="list-style-type: none"><li>- On "Recent Advances in Chemical Engineering (RACE)-2020" held on 8&amp;9.01.2020 at OUCT and IChE HRC on the eve of Golden Jubilee Celebrations of OUCT. Four Poster Sessions were organized to present more than 55 papers. Over 95 oral presentations were made in technical sessions.</li><li>- A Panel Discussion was held on the topic "Challenges, Threats and Opportunities in Chemical Engineering and Allied Areas".</li></ul> <p><b>c) Workshop</b></p> <ul style="list-style-type: none"><li>- On "Design Thinking" organized on 25.02.2020. The workshop mainly focused on collaboration between designers and users for bringing ideas to life and emphasized the linkage of design with the manner in which users think, feel and behave. More than 125 delegates including engineering students, academicians, scientists and industry professionals participated the workshop.</li></ul> <p><b>d) Panel Discussion</b></p> <ul style="list-style-type: none"><li>- On "Best Practices of Safety Management in Chemical Industry" held on 31.05.2020 through digital platform WebEx Meet. Chemical Industrial Sector is critically linked to safety and loss prevention. Besides hazardous material characteristics get aggravated with situational factors like trial runs, abnormal idling spells, subsequent restart etc. The panel had a consensus to recommend the creation of National Safety Board (NSB) for India. NSB should be a statutory body with branches in all industrial areas. The analyses of incidences should be analyzed and communicated to all so that they do not recur.</li></ul> <p><b>e) M P Chary Memorial Lecture</b></p> <p>The 13<sup>th</sup> M P Chary Memorial Lecture was held on 20.08.2020 through digital platform. The lecture has been instituted in the memory of Sri M P Chary, who excelled as an entrepreneur. The lecture was delivered by Dr Sanjeev S Katti, Director General, ONGC Energy Centre on the topic "Green Energy, Clean Energy – Challenges and Opportunities". Over 190 delegates including representatives from R&amp;D, Academia and Industry attended the programme.</p> <p><b>f) Student Chapter Activities</b></p> <ol style="list-style-type: none"><li>1) Inter-college student chapter competition on Scientific Model Making, Technical Quiz, Essay writing and Elocution were held on 25.02.2020 at AGI, Hyderabad.</li><li>2) <b>Anurag Group of Institutions</b> conducted Industrial Visit of Chemical</li></ol>

	<p>Engineering Students to</p> <ul style="list-style-type: none"> <li>- Prathista Industries Limited, Hyderabad on 14.08.2019</li> <li>- Nuclear Fuel Complex, Hyderabad on 16.08.2019</li> <li>- Punya Herbals, Hyderabad on 13.03.2020.</li> </ul> <p><b>Invited Lectures</b></p> <ul style="list-style-type: none"> <li>- On “Nanotechnology: A Tool to Solve Technological Problems with Societal Perspectives” by Dr Chandra Shekhar Sharma, Associate Professor, of Dept of Chemical Engineering, IIT, Hyderabad, held on 22.08.2019</li> <li>- On “Nuclear Energy and Societal Benefits” by H R Ravindra, GM-HR &amp; Head BARC held on 28.08.2019</li> <li>- On “Applications of Theory to Process Industries” on 29 &amp; 30.08.2019 by Mr G Vijay Kumar.</li> <li>- On “Chemical Process Engineering and Simulation using Design Software” on 06.09.2019 by Mothilal Banothu, Process Engineer, Sipchem, Saudi Arabia.</li> <li>- On “Opportunities for Chemical Engineers Abroad” by Mr Lalit Kumar Kontham, Lead Engineer, West Rock, Texas, held on 13.12.2019</li> <li>- On “Inquiry based Labs and Project based Learning to Chemical Engineering” by Prof Claire F Komives, Professor, San Jose State University, California, held on 21.12.2019</li> </ul> <p><b>Faculty Development Programme Organized</b></p> <ul style="list-style-type: none"> <li>- On Computational Fluid Dynamics (CFD) and Its Applications” during 15.11.2019 to 20.11.2019. 25 participants from different organizations participated this programme.</li> <li>- MATLAB Workshop was held on 13.03.2020.</li> <li>-</li> </ul>
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Name of the Regional Centre	Regional Centre Activities not related to R&D
<b>Hyderabad</b>	<p>a) <b>Membership Drive:</b> IChE Membership drive was conducted at BITS Pilani, Hyderabad during February 2020. 28 Students applied for Membership.</p> <p>b) <b>Rajiv Gandhi University of Knowledge Technology, Basar</b> A new Student Chapter of IChE has been approved by the Council in its 2<sup>nd</sup> Meeting held on 29.02.2020 in Kolkata under the guidance of Hyderabad Regional Centre..</p> <p>c) <b>AGM 2018-19</b> 60<sup>th</sup> Annual General Meeting of IChE-Hyderabad Regional Centre was held on 06.07.2019 at Hotel Blue Orchid, Habisguda, Hyderabad. About 125 members (including spouses and student award winners) attended the AGM.</p> <p>d) <b>Homage to Dr H L Roy, founder, IChE</b> IChE-HRC paid homage to Dr H L Roy, founder, IChE on his birth anniversary on 02.11.2019 during its Executive Committee Meeting.</p> <p>e) <b>Student Chapter Activities</b></p>

**Lectures**

- On "Science and Spirituality" by Shri Vimukta Chaitanya, Spiritual Teacher, Chinmaya Mission at OUCT on 31.01.2020. Shri Chaitanya completed his B.Tech (Chemical Engg) from OUCT, Hyderabad and Master's degree in Computer Science from USA.
- On "Eternal Wisdom – Transforming Challenges into Solutions" held on 29.08.2020 by Sri Vinayji.

**National Institute of Technology (NIT) Warangal**

- "Know Your Acads" was organized on 31.08.2019.
- On the occasion of Gandhi Jayanti an online Blog Writing and Poster making competition was conducted to raise awareness among the fellow students about the peace and prosperity
- Resume Building workshop was held on 28.10.2019

**B V Raju Institute of Technology**

- Industrial visit to Ganapati Sugars, Sangareddi, held on 09.01.2020
- Competitions/programmes such as Paper Presentation, Poster Presentation, Chem Quiz, Chem Hunt, Chem Spark and CFD Workshop were organized on 30 & 31.12.2019
- Seminar on "Opportunities after Engineering" was conducted on 11.02.2020
- An Invited Lecture was organized on Chemical Engineering Abroad by a faculty from University of New Burnswick, Canada, on 20.02.2020  
Interactive Session followed by a talk by Prof D V R Murthy on 17.10.2019.