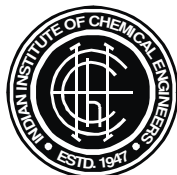


Annual Report
2015-16
(April 1, 2015 to March 31, 2016)



Indian Institute of Chemical Engineers

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

Annual Report for 2015-2016

1.0 Introduction

The report covers the major activities of the Institute during the period 1 April 2015 to 31 March 2016.

2.0 68th Annual Session and CHEMCON 2015

The 68th Annual Session of Indian Institute of Chemical Engineers (IChE), i.e., Indian Chemical Engineering Congress (CHEMCON 2015) was organized by Guwahati Regional Centre of IChE in association with the Department of Chemical Engineering, Indian Institute of Technology (IIT) Guwahati during 27 – 30 December 2015. The central theme of CHEMCON 2015 was '**Chemical Engineering: From Laboratory to Industry**'. The four-day mega event was organized at the campus of IIT Guwahati.

The conference was inaugurated by Shri Sushil Kumar Goyenka (Managing Director, Emami Limited) in presence of Prof. Gautam Barua (Mentor Director, IIIT Guwahati), Prof. Gautam Biswas, (Director, IIT Guwahati) and Shri G. V. Sethuraman (President IChE). Prof. G. D. Yadav (Chair National Organizing Committee and Vice Chancellor, ICT, Mumbai, addressed the gathering while Shri G. V. Sethuraman President, IChE (2015) delivered the Presidential Address. Prof. P. De (Honorary Secretary, IChE) presented the IChE awards.

The inauguration function was followed by presentation of the three memorial lectures by renowned authorities in the field of chemical engineering. **Dr. HL Roy Memorial Lecture, sponsored by Jacobs**, was delivered by Prof. K.V. Raghavan, INAE Distinguished Professor and former director, IICT, Hyderabad. The theme of his lecture was 'Chemical Process Intensification: Paradigm Shifts to Make It Transformative'. The second lecture, **Aker Powergas's Prof. N.R. Kamath and Mrs. Ruzena Kamath Memorial Lecture**, on 'Novel Unit Operations and Their Application in Chemical Synthesis and Manufacture of Active Pharmaceutical Ingredient (API)' was delivered by Dr. Sanjeev Katti, Senior Vice President, Reliance Technology Group, Mumbai. The third lecture, **Shri C.K. Murthy Memorial Lecture**, was delivered by Prof. A.B. Pandit from ICT Mumbai.

As in practice, December 28, 2015, the birth anniversary of the late Shri Dhirubhai Ambani, was celebrated as Shri Dhirubhai Ambani Commemoration Day in association with Reliance Industries Limited. Prof. G. D. Yadav, Shri G. V. Sethuraman, Shri Pankaj Mehta and Dr. Sanjeev Katti, the

latter two being senior executives from the Reliance Group, addressed the gathering. Prof. Ashutosh Sharma (Secretary, Department of Science & Technology, Government of India) delivered Shri Dhirubhai Ambani Oration on "Delights of Doing Research: Some Personal Lessons from Translational Sciences". At the end of the session, Chief Guest, Dr. Bhumidhar Barman, the minister of Assam, addressed the present delegates.

During CHEMCON, around 1200 technical papers were presented in 12 parallel sessions along with 15 Chemcon Distinguished Speaker (CDS) award lectures (listed in Section 8.0), around 35 keynote talks and 50 invited talks.

Joint Symposia: Two joint symposia were held during the session. The first one was Indo-US joint symposium on "Carbon Capture - Sequestration, Utilization and other Frontiers (CCSUF)". Prof. W. S. Winston Ho from The Ohio State University, USA delivered the Keynote address. The Second one was on "Enabling Process Innovation through Computation (EPIC)". Padma Bhushan Prof. J. B. Joshi delivered the plenary lecture. A number of eminent academics from the USA, Canada, UK, Australia, India, etc. also enlightened the audience. Each symposium was followed by a one-hour panel discussion.

Award Presentation

The IChE Awards for 2015 were presented on December 27, 2015 during the inaugural programme. A list of the awards and awardees is published in Section 8.0. Dr B P Godrej Life Time Achievement Award was conferred upon Mr Ashok A Panjwani, Executive Director, UPL Ltd., Gujarat for his exemplary services to the profession of chemical engineering and chemical industry in the country.

3.0 68th Annual General Meeting

The sixty-eighth Annual General Meeting (AGM) of the Institute was held on December 27, 2015 at the Mini Auditorium, IIT, Guwahati. Mr G V Sethuraman, President of the Institute for 2015, chaired the meeting that was attended by 45 corporate members (a list is presented in the back cover page). Before commencement of the proceedings, the members stood in silence as a mark of respect to the following members who expired during the Year : Prof P Dakshinamurthy (LM 02426), Mr K K Sundaram (LM 20001), Dr Asad Ali Khan (LF 06548), Mr Manas Dutta (LAM 25696), Prof B B Konar (LM 27679), Prof P V R Iyer (LM 00921), Prof P Sadasiva Rao (LM 00944) Sri B R K Kumar (LM 08406), Dr S Ganguly (LF 00523),

Mr Sunil Baran Das (LM 25140) and Mr R L Bakhshi (LM 02769).

The Minutes of the 67th (Sixty-seventh) Annual General Meeting held on December 28, 2014 at Panjab University, Chandigarh were confirmed.

The meeting adopted the minutes of the proceedings of the EGM of the Institute, held on December 28, 2014 at Dr SSBUI CET, Panjab University, Chandigarh, as circulated on November 14, 2015.

The meeting unanimously adopted the Annual Report of the Institute as circulated earlier.

The meeting adopted the Audited Statement of Accounts for the year 2014-15 of the Institute unanimously.

The members decided that the defaulting Regional Centre(s) would be suspended and their bank A/c(s) would be sealed till the defaulting centre(s) submit(s) the A/c. in the prescribed format. The members further decided that the Chairman, Honorary Secretary and Treasurer of the defaulting centre should be suspended during the tenure.

The meeting decided to reappoint M/s Nirupam & Associates, Rashkhola Para, Khardah, Dist. 24 Pgs.(N), Kolkata 700 117 as Auditors of the Institute for the Financial year 2015-2016 for the following services i. Auditing of IICHe Headquarters Accounts and Consolidated Accounts of IICHe; ii. On-line filing of IT Return, Form 10B & Form 10 (declaration of set apart); iii. Advice on Income Tax and other tax related matters at an annual remuneration of Rs. 22,000/-.

3.2 R&D Related Activities by Regional Centres

Name of the Regional Centres	R&D Related Activities
Ankleshwar	<p>a) Technical Lectures/Talks:</p> <ol style="list-style-type: none"> 1) On 'Working Principles, Technical and Application Details for Corken's Line of Reciprocating Compressor and Industrial Pumps' on 24.07.2015 . 2) On 'Turnkey Value Added EPC Solutions & Advance Integrated Productivity and Efficiency Management Solutions (IT Enabled)' on 21.08.2015. 3) On (i). 'Linde's Industrial Gases-based Technology Solutions for Chemical, Pharmaceutical, Specialities and Fine Chemical Industries for Productivity Improvement as well as Process Optimization, Cost Reduction and Improved Safety' on 24.09.2015. 4) On 'Efficient Heat Transfer Solutions' and 'Separation Technologies' on 27.11.2015. 5) On 'Thermal Energy Conservation Opportunities in Process Plants Using German Technologies' on 11.12.2015. 6) On 'Filtration and Drying Technologies' on 29.12.2015. 7) On 'Corning AFR-Process Intensification and Seamless Scaleup from Lab to Production' on 08.01.2016. 8) On 'Innovation in Chemical Industries' by Padma Vibhusan Prof M M Sharma on 08.02.2016.

As the existing Auditors M/s Nirupam & Associates, Rashkhola Para, Khardah, Dist. 24 Pgs.(N), Kolkata 700 117 has been working as Auditors of the Institute for 3 years, the meeting resolved to appoint M/s N Chatterjee & Associates, Chartered Accountants as Auditors of the Institute for the Financial year 2016-2017 for the following services: i. Auditing of IICHe Headquarters Accounts and Consolidated Accounts of IICHe. ii. On-line filing of IT Return, Form 10B & Form 10 (declaration of set apart). iii. Advice on Income Tax and other tax related matters at an annual remuneration of Rs. 22,000/- with an additional 14% charge of Service Tax as per law.

The names of the newly elected Council members for the period 2016-2018 were announced. The Members welcomed the elected members for joining the new Council.

As proposed by Prof. Vinay K Srivastava, Mumbai the meeting resolved to furnish certificates to the Students' Chapters.

Members decided that anyone intending to publish research paper on the basis of investigation carried out using the financial assistance from the Institute, should declare himself/herself to be affiliated to the Institute as its Member.

3.1 R&D Activities by IICHe HQ

During the concerned period of 2015-16, the following projects have been undertaken.

- i. Adsorptive Removal of Crystal Violet Dye on Low Cost Adsorbent in Orbital Shaker.
- ii. Adsorptive Removal of Crystal Violet on Low Cost Mixed Adsorbent in Orbital Shaker.
- iii. Adsorptive Removal of Crystal Violet on Low Cost Adsorbent in a Bubble Column.

	<p>9) On 'High Technology Agitators and Mixing Systems for Process Plant Using German Technology' on 26.2.16.</p> <p>a) Round Table Discussion On 'Know Best Practices by Industries and Share Your Improvement Requirement' on 04.09.2015</p>
Annamalai-Neyveli	<p>a) Technical Lectures:</p> <ol style="list-style-type: none"> 1) On 'Water Industry Perspectives in UAE' by Mr Kumaravel, Dubai, UAE on 29.07.2015. 2) On 'Essential Skill Set and Attributes for Engineering Graduates' by Dr L Govindarajan, International Maritime College, Oman on 05.08.2015. 3) On 'Career Guidance for Chemical Engineers in Middle East Countries' by Dr N Rajamohan, Sohar University, Sohar on 12.08.2015 4) On 'Orientation Programme for Chemical Engineers' by Prof RM Bairavan, Formerly, Professor, Chemical Engineering, Annamalai University on 31.07.2015.
Bangalore	<p>a) Seminar : On 'Recent Advances and Developments in Chemical Engineering' on 30.11.2015.</p> <p>b) Workshop: On 'Safety In Process Industry' on 03.11.2015</p>
Baroda	<p>a) Technical Lecture: On 'Safe Handling of Chlorine' by Mr H.S. Sehgal, Ex-Deputy General Manager, Gujarat Alkalies and Chemicals (GACL), Vadodara on 30.01.2016.</p>
Bhubaneswar	<p>a) Technical Lecture: On 'Personality Development and Leadership' by Mr D.P. Misra, former Deputy MD, Jacobs Engineering India, and presently Director, Development Consultants Private Ltd. on 22.03.2016.</p> <p>b) Seminar : On 'Non-Ferrous Minerals Industry-Growth and Challenges' on 02-03.12.15</p>
Calcutta	<p>a) Technical Lectures:</p> <ol style="list-style-type: none"> 1) On 'Leading Coal Liquefaction Processes Developed In USA and their Viability in Using High Ash Coal In India' by Prof Amalesh Sirkar on 02.11.2015. 2) On 'Produced Water Treatment during Offshore Petroleum Production – the Influence of Interfacial Phenomena' by Prof. Gisle Oye, Distinguished Professor in Chemical Engineering, Department, Norwegian University of Science and Technology (NTNU), Trondheim on 14.12.1015. 3) On 'Climate Change and Circulating Fluidized Bed Combustion' by Prof Prabir Basu, Distinguished Professor and Director of Circulating Fluidised Bed Combustion (CFBC) and Biomass Conversion Laboratory in Dalhousie University, Canada on 14.12.2015. <p>b) Memorial Lecture : On 'Novel Membrane, Membrane Process and Membrane Techniques' by Prof Kamalesh K Sirkar on 28.11.2015. The lecture has been instituted in memory of Prof. D.K. Dutt.</p> <p>b) Workshop : On 'Finance for Non-finance' for the outgoing engineers under the title '10 Financial Applications for Engineers to Survive in Profession' on 10.10.2015. It was held jointly with Indian Institute of Contemporary Management & Research, Kolkata.</p>
Chennai	<p>Memorial Lectures:</p> <ol style="list-style-type: none"> 1) Dr B Jaganathaswamy Memorial Lecture on 21.08.2015. 2) Shri T S Narayanaswamy Memorial Lecture on 19.09.2015

Coimbatore	<p>a) Technical Lectures:</p> <ol style="list-style-type: none"> 1) On 'Utilization of Fish Waste for the Isolation of an Industrially Useful Enzyme Protease' by Dr Anitha Subash, Dept. of Biochemistry, Avinashilingam University, Coimbatore on 22.07.2015. 2) On 'Importance of Biomaterials in the Present Scenario' by Dr K Kannan, Associate Professor, Dept. of Chemical Engineering, Kongu Engineering College, Perundurai, Erode on 22.07.2015. 3) On 'Chemical Engineers – A Boon To India' by Prof G D Yadav, Past President, IChE and VC, ICT, Mumbai on 22.08.2015. 4) On 'Employment Opportunities In IT Industries' by Mr Rajkumar Chandran, Mr Rajkumar, Mr Durai Pandian and Mr Muralidharan on 09.01.2016. 5) On 'Tips to Create Foot Prints in the World' by Mr Anwar Ali on 04.02.2016 <p>b) Seminar:</p> <ol style="list-style-type: none"> 1) On 'Process Analytical Technique for Bioreactor & Biomolecules From fungi' on 20.07.2015. Dr K P Kannan, Assistant Professor, Dept. of Biotechnology, Bannari Amman Institute of Technology, Sathyamangalam was the resource person. 2) On 'Potential of Calorimeter as a Process Analytical Technology (PAT) Tool for Monitoring and Control of Bioreactor' on 20.07.2015. Dr D Balaji, Associate Professor, Dept of Chemical Engineering, SSN College of Engineering, Kalavakkam, Chennai was the resource person. 3) On 'Tissue Engineering & Biosynthesis of Nanoparticles' on 23.07.2015. Dr D Gnanprakash, Associate Professor, Department of Chemical Engineering, SSN College of Engineering, Kalavakkam, Chennai was the resource person. 4) On 'Biomaterials – A Boon to Mankind' on 23.07.2015. Dr P Lalitha, Associate Professor, Department of Chemistry, Avinashilingam University, Coimbatore was the resource person. <p>c) Workshops:</p> <ol style="list-style-type: none"> 1) On 'Inspiration and Application of Biomaterials for Membrane Separation' on 21.07.2015. Dr G Arthanareeswaran, Associate Professor, Dept of Chemical Engineering, National Institute Of Technology, Tiruchirappalli delivered the main lecture. 2) On 'Biomaterial in Separations & Ultrasound for Biomaterial Synthesis' on 21.07.2015. Dr. T Sivasankar, Assistant Professor, Dept. of Chemical Engineering, National Institute of Technology, Tiruchirappalli delivered the lecture. 3) On 'Electro Assisted Biodegradation Process for the Textile Dye Degradation' on 24.07.2015. Dr K V Selva Kumar, Associate Professor & Head, Dept of Chemical Engineering, Adhiyaman College of Engineering, Hosur delivered the main lecture. 4) On 'Green Synthesis of Nanoparticles & Electro-assisted Biodegradation' on 24.07.2015. Dr K Sathish Kumar, Associate Professor, Department of Chemical Engineering, SSN College of Engineering, Kalavakkam, Chennai delivered the main lecture.
Damanjodi	<p>a) Seminars:</p> <ol style="list-style-type: none"> 1) On 'Latest Advances In Alumina Making Process' on 24.07.2015. 2) On 'Latest Developments of Flocculent Use In High Rate Thickeners for Red Mud Settling in Alumina Refineries' on 09.01.2016. <p>b) Workshop:</p> <p>On 'Technology Advances in Fluidized Bed Calciners' on 16.02.2016.</p>
Doaba	<p>a) Workshop :</p> <p>On 'Application of Chemical Engineering in Alternative Sources of Energy' on 30.10.2015.</p>
Guwahati	<p>a) Technical Lecture :</p> <p>On 'Catastrophic Inversion of Agitated Dispersion of One Liquid in Another' on 19.02.2016 by Prof. Sanjeev Gupta, IISc, Bangalore.</p>

Guntur	<p>a) Technical Lectures:</p> <ol style="list-style-type: none"> 1) On 'Chemical Engineers - Opportunities and Career Development' by Mr O S Siddhartha, Scientist 'C', SHAR, Sriharikota on 01.08.2015. 2) On 'Smart Innovations in Chemical Sciences' by Prof S V Satyanarayna, Department of Chemical Engineering, JNTU College of Engineering (A), Anathapuramu on 01.09.2015. 3) On 'Opportunities in American Universities' by Mr D Phani Raj Kumar, East University, New Mexico on 21.09.2015. 4) On 'Fundamentals of MATLAB & Simple Applications' by Dr T Vinay Kumar, Asst Prof, Department of Electrical and Electronics Engineering, NIT Warangal on 06.11.2015. 5) On 'Computing with MATLAB' by Dr V Hari Kumar, Asst. Professor, Department of Mechanical Engineering, NIT Warangal on 06.11.2015. 6) On 'Introduction to SIMULINK and PDETOOL of MATLAB for Solving Moving Boundary Problems' by Dr T Sunil Kumar, Asst Prof, Department of Chemical Engineering, NIT Warangal on 07.11.2015. 7) On 'Optimization Using MATLAB' by Dr Kishalay Mitra, Asst Prof, Dept of Chemical Engineering, IITH, Hyderabad on 07.11.2015. 8) On 'Go Ahead' by Mr B.S.S. Krishna Sastry, Engineer Operations – Process, Reliance Industries Ltd., Madhya Pradesh on 21.12.2015. 9) On 'Go Ahead' by Ms G Harini, Ph.D Scholar, IIT, Gandhinagar, Gujarat on 21.12.2015. 10) On 'Overview of Offshore Oil Production, Processing and Distribution Operation' by Mr M Uma Mahesh, Executive Engineer, Mumbai Offshore, Oil and Natural Gas Corporation Ltd (ONGC), Mumbai on 07.01.2016.
Haldia	<p>a) Technical Lectures :</p> <ol style="list-style-type: none"> 1) On 'Use of TiO₂ Nano-particles for Bicarbonate-enhanced Photocatalytic Degradation of Organic Pollutants' by Prof R. Das, Dept of Chemical Engineering, Haldia Institute of Technology on 30.07.2015. 2) On 'Proactive Leadership' by Prof R.K. Behera, IIT-Patna on 04.02.2016. <p>b) Seminar / Conference:</p> <ol style="list-style-type: none"> 1) On 'Safety In Process Industries' on 27.08.2015 and 22.09.2015. A host of top industry professionals spoke on the following topics: On 27.08.2015: <ol style="list-style-type: none"> i) On 'Safety in Confined Space - A Case Study' by Mr Mrityunjoy Sil, Chief Manager (Safety), Haldia Petrochemicals Ltd., Haldia. ii) On 'Disaster Management of Process Industry' by Mr S K Bhowmik, Sr Manager (Safety), Electro Steel Casting Ltd., Haldia. On 22.09.2015: <ol style="list-style-type: none"> i) On 'Safety Culture Improvement in Refinery' by Mr T.K. Dasgupta, GM(HSE),IOCL, Haldia. ii) On 'Process Safety Management' by Mr G.C. Kundu, DGM (Safety),IOCL, Haldia. 2) On 'Renewable Raw Materials - Opportunities and Challenges' by Prof. M.M. Sharma (Padma Vibhushan, Bhatnagar Awardee, Ex-Director UDCT,Mumbai) on 21 – 23.01.2016.
Hyderabad	<p>a) Memorial Lecture:</p> <ol style="list-style-type: none"> 1) 8th M.P. Chary Memorial Lecture on 'Research Opportunities in Non-conventional Energy' by Prof J B Joshi, Homi Bhabha National Institute on 06.08.2015.
Jaipur	<p>a) Technical Lecture :</p> <p>On 'Graphite: Greener & Energy Efficient Material for Chemical Process Industries' by Mr Praveen Saxena, Director & CEO, Blast Carboblocks Pvt Ltd., Mumbai on 23.11.2015.</p> <p>b) Seminar :</p> <p>On 'Process Automation and Control (NCPAC 2016) on 28 and 29.05.2016.</p>

	<p>c) Workshop: On 'Safety & Storage of Explosives & Petroleum Products' on 04 and 05. 12.2015.</p>
Kharagpur	<p>a) Technical Lecture: On 'A Multi-physics Simulations Study of Sensitivity Analysis of Experimental Variables In a PEM Fuel Cell by Dr Ashish Lele, Chief Scientist, National Chemical Laboratory, Pune on 27.01.2016.</p>
Kochi	<p>a) Technical Lecture: On 'Environmental Management - A Way of Life' by Prof. Shri Seetharaman on 26.02.2016.</p> <p>b) Memorial Lecture: Shri K Unnikrishnan Memorial Lecture on Understanding the Barriers in Renewable Energy Utilization In Kerala' by Dr Sasidharan, Post-doctoral Fellow, Singapore University on 14.01.2016.</p>
Lote-Parasurm	<p>a) Seminar : 1) On 'Tips to Improve Plant Performance' on 24.10.2015. .</p>
Lucknow	<p>a) Technical Lecture: 1) On 'Efficient Role of Chemical Engineers in Operation of Petroleum Refining Industry' by Mr. Manish Kumar Jaisawal, Engineers India Ltd., New Delhi on 14.08.2015 2) On 'Role of Bioprocess Principles to Excel In Biotechnology' by Dr Dhananjay Singh, Honorary Secretary, Lucknow Regional Centre on 28.10.2015.</p> <p>b) Workshops: 1) On 'National Programme on Technology Enhanced Learning' on 24.09.2015. 2) On 'Opportunities and Challenges In Bio-Fuels & Bio-Lubricants' on 21 and 22.11.2015. 3) On 'Electrochemical Technologies In Hydrogen Production and Utilization for Electrical Energy' on 08 and 09.10.2015.</p>
Mumbai	<p>a) Lectures: 1) On 'Sustainability In Energy Resources' by Prof Sunil S Bhagwat, ICT on 18.07.2015. 2) On 'Technologies for Swachcha Bharat Mission: Recycle & Reuse Methodology For Waste Thermocol' by Dr D B Naik, BARC on 24.10.2015. 3) On 'Technologies For Swachcha Bharat Mission: Future of Waste Management In India: Proposed MSW Rules 2015' by Suhas Dixit, Pyrocrat Systems LLP on 20.02.2016.</p> <p>b) Seminars / workshops: 1) On 'Clean India – Role of Chemical Engineers' on 10.10.2015. 2) On 'Career Opportunities & Enhancing Skills towards Better Placements' by Prof V.K. Srivastava, TPO, MGM CET, Chemical Engineering Dept. on 05.03.2016.</p> <p>c) Panel Discussion On 'Perspective and Growth Opportunities for Chemical Engineering in the Framework of MAKE IN INDIA Policy' on 25.11.2015.</p>
Mangalore	<p>a) Symposium : CHEMIGNITE 2K15, a national symposium on 'Upstream & Downstream Processing in Petroleum Industries' on 30 & 31.10.2015.</p>
Northern	<p>a) Technical Lectures: 1) 22nd Annual Lecture, organized in association with Lovraj Kumar Memorial Trust, on 'The Future of Oil' by Mr. Vikram Singh Mehta, Chairman, Brookings India on 18.11.2015. 2) On i. 'Introduction to Process Hazard Reviews' ; ii. on 'Basics of Process Safety'; iii.on 'Introduction and Principles of HAZOP'; iv. On 'Risk Assessment and Criticality Matrix'. The</p>

lectures were delivered by Mr Umesh Goel, Director, USP Trading and Manufacturing Pvt. Ltd. on 12.12.2015.

- 3) On 'Solarizing India: An Overview of the Nation's Vast Solar Potential' by Mr Anurag Mishra, Director, Sun Shine Technocon Pvt. Ltd. and 'India's Choices and Options for a Clean, Resilient & Equitable Energy System' by Dr Ritu Mathur, Professor, TERI University & Senior Fellow, GGRE Division, TERI on 16.01.2016.

b) Seminar:

On 21 & 22.07.2015 on 'Materials of Construction in Chemical Process Plants'. The following speakers spoke on various aspects of this central theme:

- i) On 'Considerations In Material Selection for Process Industry' by Dr. A. K. Lahiri, Consultant, New Delhi.
- ii) On 'Materials of Construction for Chemical Process Plant' by Mr Suresh Nayar, Outokumpu, Mumbai
- iii) On 'Graphite is Green and Energy Efficient Material of Construction for Process Equipment for Chemical Process Industries' by Mr Dhawal Saxena, Executive Asstt of MD, Blast Carboblocks Pvt Ltd, Navi Mumbai.
- iv) On 'MOC for High Pressure Section of Urea Plant – Past and Present' by Dr A K Lahiri, Consultant, New Delhi.
- v) On 'SAF 2304: Cost Effective Solution for Ammonia Service In Fertilizer Industry' by Mr Mohan Gawande, Sandvik Asia, Pune.
- vi) On 'Production Scale Silicon Carbide Reactors for Aggressive Chemical Applications' by Mr Praveen Gosain, Regional Director-India, S.E. Asia & Australia, Corning, Gurgaon.
- vii) On 'Fitness for Service (FFS): Utilizing Full Potential of Plant Equipment beyond Serviceable Life' by Mr Paresh Haribhakti, Managing Director, TCR Advanced Engineering, Vadodara.
- viii) On 'Materials of Construction for Refineries' by Dr A K Lahiri, Consultant, New Delhi.
- ix) On 'MOC for Reliable Operation of Phosphoric Acid Plants' by Mr TNV Satyanarayana, Joint General Manager & Chennai Tech Head, Technip India Ltd, Chennai
- x) On 'Material Selection in HCL Acid Environment' by Mr Digvijay Charan, Material & Corrosion Specialist, and Vikram Tamer, Process Engineer, Fluor India, Gurgaon
- xi) On 'MOC for Acid and Complex Fertilizer Plants' by Mr G.M. Patel, Director, CFIC, New Delhi
- xii) On 'MOC For The HP Critical Equipment's in Fertilizer Plants' by Mr G K Sadekar, Ex-Vice President, L&T, Mumbai
- xiii) On 'Failure Study of 3rd Stage Ejector of O/H Condenser in VDU Complex' by Mr Deepak Bhat, Deputy Manager, BPCL, Mumbai
- xiv) On 'Failure of Sulphuric Acid Pipeline' by Mr Anup M Madkaikar, Manager (PES), ZACL, Goa.

c) R&D Meet:

On 24 and 25.07.2015, NRC-Lovraj Kumar Memorial Trust R&D Meet, 2015 was held. The following academics and scientists made the following presentations:

- i) Review Paper on 'The Pilot Scale Development for Establishment of Coal (& Other Solid Fuels) to Liquid (CsTL) Technology in India' by Dr R Sonde, Thermax.
- ii) On 'Gasification of Coal-biomass Blends In Fluidized Bed Gasifier' by Dr Sudipto Datta, CIMFR, Dhanbad
- iii) On 'Synthetic Fuels Production From Syngas; BPCL's Research and Development Efforts' by Dr V Ravikumar, BPCL R&D
- iv) On 'Multifeed Gasification: Concept to Demonstration' by Mr Rajesh Badhe, IOCL R&D

- v) On 'HPCL Experience on Development and Commercialization of Refinery Process Technologies' by Dr N.V. Choudary, HPCL R&D
 - vi) a. On 'Studies on Effects of Metal Loading and Calcination Temperature on Co/A1203 Catalyst for Fischer Tropsch Reaction', and, b. On 'Effect of Varying Support on Fisher Tropsch Process', both by Prof S Dasappa, IISc Bangalore
 - vii) On 'Development of Multifunctional Catalysts for the Conversion of Syngas to Liquid Fuels' by Prof K K Pant, Dept of Chemical Engineering, IIT Delhi.
 - viii) On 'Kinetic Studies for Indian Coals' by Prof. Preeti Aghalayam, IIT Madras
 - ix) On 'Feasibility of Reactive Distillation for Fischer-Tropsch Synthesis' by Prof S Srinivas, IIT Mumbai.
 - x) On 'Study of RWGS Reaction Over Supported Alumina Catalysts' by Dr P D Vaidya, UICT Mumbai
 - xi) On 'Operational Experience with Gasification of Biomass Pellets' by Mr D Satya Mohan Rao, BHEL R&D, Hyderabad
 - xii) On 'Aspects of CTL Process with High Ash Indian Coal and Efforts towards Development of CTL Technology' by Dr R. N. Maiti, EIL R&D
 - xiii) On 'Hydrodeoxygenation of Fast Pyrolysis Oil over Pd/A12O3 Catalyst' by Dr Vimal Kumar, IIT Roorkee
 - xiv) On 'Synthesis of Alternative Chemicals Like Dimethyl Carbonates by Greener Routes' by Dr V.C. Srivastava, IIT Roorkee
 - xv) On 'Computational Modeling of Coal Gasification: Above & Underground Systems' by Mr Ankit Jain, NCL Pune & Mr Akshay Singan
 - xvi) On 'Modelling and Simulation of Small Scale Methanol Synthesis in a Multi-tubular Packed Bed Reactor' by Prof. P. Mondal, IIT Roorkee
 - xvii) On 'Monetisation of Unconventional Gas Resources: Role of Oxymethylene Ether' by Mr Ankur Bordoloi, CSIR-IIP.
 - xviii) On 'Experiments and Modelling Studies of Hydrodynamic Behaviour of Coal-Ash Mixtures' by Prof S Roy, Dept of Chemical Engineering, IIT, Delhi
 - xix) On 'Development of First Ever Indigenous Process Model For UCG' by Mr R K Sapru, IRS ONGC Ahmedabad
 - xx) On 'Three Dimensional Full-loop Simulation of Coal Gasification In Circulating Fluidized Bed' by Dr V K Agarwal, IIT Roorkee
- d) Conferences:**
- On 21.02.2016, on a central theme of 'Emerging Dimension and Challenges for Polymer And Chemical Engineers' In association with Delhi Technological University. The following speakers made presentations:
- i) On 'Innovation in Chemistry and Polymers - Key to Success' by Dr. S N Chakraborty.
 - ii) On 'Career Option for Chemical Engineers' by Mr Abhijit Bikas Pal.
 - iii) On 'Non-Core Career Options for Chemical Engineers' by Mr D.D. Maheshwari.
- e) Workshop:**
- On 10 & 11.03.2016, in association with Lovraj Kumar Memorial Trust, Workshop-2016 was held on 'Processing of Heavy Crudes and Upgrading of Heavy Residues'. The following presentations were made:
- i.) On 'Challenges In Sourcing, Transportation and Processing of Heavy Crudes' by Mr S.N. Pandey, Indian Oil Corp Ltd.
 - ii) On 'Transportation of Heavy Residues' by Mr Ashok Singh, Engineers India Ltd.
 - iii) On Operation & Maintenance Challenges In Handling/Storage /Transportation of Heavy Crudes.

	<ul style="list-style-type: none"> iv) On 'Delayed Coking for Maximum Crude Flexibility' by Mr Satish Mathur, Bechtel Engineering & Construction India Pvt Ltd. v) On 'Experience with Operation of Delayed Coking Unit' by Mr N Venkatesh, Indian Oil Corp. Ltd (Gujarat) vi) On 'Experience with Operation of the Delayed Coking Unit and Approach Followed for Revamping the Same' by Mr Hardeep Singh, Bharat Oman Refinery Ltd. vii) On 'Delayed Coking Technology' by Mr Srini Srivatsan, Amec Foster Wheeler. viii) On 'Solvent Deasphalting Technology Development & Performance' by Dr M.O. Garg, IIP, Dehra Dun. ix) On 'ROSE: An Economic Option to Improve Refinery Margins' by Mr Samir Saxena, KBR x) On 'Gasification of Heavy Residues – The Lurgi MPG Technology' by Dr Siddhartha Mukherjee, Air Liquide. xi) On 'Status of Residue Upgrading Technologies' by Mr Jean Paul Margotin, Axens India. 1 xii) On 'Bottom of Barrel Upgrading – RFCC Synergy with Hydro Treating' by Mr Sakthivelan Durai, Honeywell UOP. xiii) On 'Feedback on Performance Of RFCC Unit' by Mr P.S. Munda, Indian Oil Corp. Ltd. xiv) On 'Feedback on Performance of FCC Unit' by Mr M Nagaraju, Indian Oil Corp. Ltd. (J) xv) On 'Eni Slurry Technology (EST) In Combination with Topsoe Upgrader Technology Offers an Innovative and Reliable Solution to Convert Bottom of the Barrels to High Value Distillates' by Mr Raju Chopra, Haldor Topsoe. xvi) On 'Slurry Hydrocracking Technology for Upgrading Vacuum Residue' by Mr Neeraj Tiwari, Honeywell UOP xvii) On 'Slurry Phase Residue Hydrocracking: Comparison of Homogeneous and Heterogeneous Catalysts' by Dr Samir Maity, IIP Dehra Dun xviii) On 'Recent Advances in Heavy Oil Processing Technology' by Mr Opinder K Bhan, Shell Oil Company xix) On 'Choosing the Right Conversion Scheme for Heavy Crude Processing' by Mr Vincent Duverne, Axens India xx) On 'Advances In Residue Hydrocracking Via LC Fining' by Mr Ujjal K Mukherjee, Chevron Lummus Global xxi) On 'Flare Mitigation Strategies for Refinery' by Mr Tanmay Taraphdar, Technip KT India. xxii) On 'Flare Mitigation During Design Case Studies' by Ms. Jayati Ghosh, Engineers India Ltd. xxiii) On 'Flare Load Mitigation through Dynamic Simulation' by Mr Sheo Raj Singh, Engineers India Ltd.
Nadiad	<p>a) Technical Lectures:</p> <ul style="list-style-type: none"> 1) On 'Introduction to Reactor Design' by Dr S Ramamoorthy on 05.09.2015 2) On 'Introduction to Variable Volume Reactions' by Dr S. Ramamoorthy on 15.09.2015 3) On 'How to Face Interview and Group Discussion?' by Mr Maulin Pandya on 09.07.2015 4) On 'Yoga and Meditation' by Mr Mihir P. Dalwadi on 20.08.2015 <p>b) Conference:</p> <p>'Collision 2016' was held during 08 – 11.03.2016. Under this umbrella, a host of activities were organized.</p>
Pilani	<p>a) Technical Lecture:</p> <ul style="list-style-type: none"> 1) On different mathematical programming approaches for modeling and solution of process planning & scheduling problems for chemical batch and continuous process operation with applications in refinery, petrochemicals, polymers, pulp & paper, bio-pharmaceuticals, pipeless plants, and fast moving consumer goods (FMCG) manufacturing. It was delivered by Prof (Dr) Munawar A Shaik, Associate Prof, Dept of Chemical Engineering, IIT Delhi on 13.08.2015.

	<p>2) A Motivational talk by Dr Siddhartha Mukherjee, Director, Technology; Air Liquide Global E&C Solutions India Pvt Ltd. (Formerly known as Lurgi India Company Pvt Ltd. on 12.09.2015.</p> <p>3) On 'Evolutionary Computation' by Prof B.V. Babu, Vice-chancellor, Galgotias University, Greater Noida on 19.09.2015</p> <p>b) Symposium :</p> <p>1) On 'Sustainable Technology Development In Polymer (SSTDP-2016)' on 11 and 12.03.2016. Workshops that included 8 expert lectures, panel discussions and poster presentation, were held under the symposium.</p>
Pune	<p>Technical Lectures :</p> <p>1) On 'Energy Recovery from Natural Gas Hydrates: Prospects and Challenges' by Prof. Praveen Linga, Asst. Professor, Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore on 18.12.2015</p> <p>2) On 'Sustainable Energy: Need, Challenges and Opportunities' by Prof Shripal Revankar, Department of Nuclear Engineering, Purdue University, USA on 18.02.2016.</p>
Rourkela	<p>a) Seminar :</p> <p>On 'Sustainable Technology for Cleaner Environment' on 13 and 14.02.2016.</p>
Vapi	<p>a) Seminar :</p> <p>1) On 'Zero Liquid Discharge (ZLD)' on 25.02.2016.</p>

4.0 Council Meeting Highlights

The Council had the following meetings between 1 April 2015 and 31 March 2016.

4.1 3rd meeting for 2015, held at Dr. H. Roy Building, IChE HQ, Kolkata on 2 May 2015.

Constitution of Committees

The Council decided to constitute the following 13 (Thirteen) Standing Committees for the year 2015 on the basis of Clause 26 of the Constitution.

	Name of the Committee	Chairmen	Conveners	Members
1	Regional Centre Affairs Committee	Prof N M Surana	Mr D M Butala	Mr Jayesh Master Prof V K Srivastava Prof M K Jha Prof S V Satyanarayana Prof G A Shareef Mr Dipak Dutta - Invitee Dr (Mrs) Radha Das – Invitee
2	Education & Examination Committee	Prof V K Srivastava	Dr C Kathikeyan	Dr R Parthiban Dr N Balasubramanian Prof M V Rao Dr M Rajasimman Dr Alpana Mahapatra Dr Radha Das
3	Admission Committee	Prof M V Rao	Prof S V Satyanarayana	Dr Shishir Sinha Dr G Pugazhenthii Dr Sriram Devanathan Dr Anil Khadse
4	Annual Awards Committee	Mr G V Sethuraman	Prof P De	Prof D V Khakhar Prof K S Gandhi Prof B K Dutta Dr B D Kulkarni

				Prof V K Srivastava Prof. G D Yadav, Chairman- NOC, CHEMCON 2015
5	International Relations Committee		Mr Shyam Bang	
6	Student Chapter Affairs Committee	Dr. S H Vaidya	Prof V V Basava Rao	Mr. C P Ramalu Prof. C Karthikeyan Prof. S V Naidu Prof. Z V P Murthy Prof. K C Ghanta
7	Honorary Fellowship Committee	Mr G V Sethuraman	Prof P De	Prof G D Yadav Mr D P Misra Prof A K Mitra Prof S K Sharma Prof Ch V R Murthy
8	Chemcon Distinguished Speaker Committee	Mr G V Sethuraman	Prof P De	Prof G D Yadav Dr P G Rao Prof B K Dutta Mr Shyam Bang Prof B P Mandal
9	Legal Committee	Mr. P. R. Dutta Ray	Mr. Dipak Dutta	Prof B N Srimani Prof V K Rattan Mr D M Butala Prof M K Jha Prof S K Das Mr S Das Dr Asim K De Prof P De
10	Website Committee	Prof. V. K. Rattan	Prof. P. De	Mr D M Butala Mr K Sahasranaman Prof M V Rao Dr S H Vaidya Mr C P Ramalu
11	Chemical Process Safety Group	Mr K Sahasranaman	Mr. D. M. Butala	Mr Shyam Bang Mr S Das Mr C P Ramulu Dr D Mandal Ms Sheela Mr B P Baliga
12	Chemcon Protocol Committee	Mr. G. V. Sethuraman	Prof. P. De	Prof G D Yadav Dr P G Rao Prof V K Rattan Prof Pallab Ghosh Prof B P Mandal
13	Industry Institute Interaction	Mr. D. M. Butala	Prof. M. K. Jha	Mr Anand Kumar Dr. S Bajpai

Administrative

On-line Election to the Council

The Council decided for:

- (i) On-line voting by the regular members having valid mail IDs with the institute, and
- (ii) Voting through postal ballot by the regular members having no valid mail IDs.

Membership

Honorary Fellowship: The Council decided to award Honorary Fellowship of the Institute to the following persons:

(i) Prof. Gautam Biswas, Director, IIT Guwahati & Professor of IIT Kanpur, (ii) Prof. Basudeb Barman (LM, IChE), Former Vice-Chancellor, Kalyani University and former Member of Parliament (Lok Sabha); and Mr. Harsha Bhogle (Chemical Engineer).

Admission to Fellowship: The Council approved applications from (i) Dr S N Chakravarty (LM 10168), Managing Director, Polym Consultants, New Delhi, and (ii) Dr. Sanjeev Katti (LM 20067), Sr. Vice President (R&T), Reliance Technology Group, Navi Mumbai for the Fellowship of the Institute.

Financial

Quarterly Accounts: The Honorary Treasurer presented the financial statement of quarterly accounts for the quarter ended March 2015 and also the accounts for the financial year 2014 – 15. He also pointed out excess of expenditure over the budget provision on certain items.

The members after discussion noted the financial statement of accounts for the quarter ended 31st march 2015 and also

the accounts for the stated financial year. The members also approved the excess expenditure incurred on some items.

Income Tax: The Honorary Treasurer, Mr. Dipak Dutta, appraised the status of the IT cases lying with High Court and Income Tax authority. The Honorary Secretary also narrated the discussion he and Mr. Dipak Dutta had with the lawyers on 17.04.2015 regarding problems being faced on income tax matters.

The members decided the following:

- (i) Regional centres would be requested to submit audited statement of accounts in the format approved by the Finance committee by 7th of July 2015 failing which operation of their Bank accounts would be stopped, and also the recognition would be suspended.
- (ii) A competent authority / person would be appointed as Internal Auditor as recommended by the Finance Committee.

The members requested the Honorary Treasurer and Honorary Secretary to take appropriate action on the stated matters. They further requested the Treasurer and Secretary to do the needful for amicable settlement of income tax matter as decided by the Legal committee.

Examination

AMIChE Results:

The following 39 candidates came out successfully who appeared in September 2014 Home Paper Examination (Results published on 21.02.2015):

Sl. No.	Name	Roll No.	Sl. No.	Name	Roll No.
1	Mr Brijesh K Shastri	00/S4/381	21	Mr Mahesh Chandra Gupta	09/M9/238
2	Mr Dushant Ramrao Sarkete	02/S3/332	22	Mr Shani Raj Singh	09/S9/537
3	Mr Srinivas Gantla	02/S3/423	23	Mr Pramod Kumar Goyal	09/S9/538
4	Mr Vipulkumar C Kathani	04/M4/200	24	Mr Sushil Vasant Bhosale	10/M10/50
5	Mr Elumalai V	05/S5/267	25	Mr Neeraj Kumar Prajapati	10/M10/96
6	Mr Bhushan Prabhakar	06/S6/440	26	Mr J Jayabal	10/M10/209
7	Mr Samirkumar N Shah	06/S6/449	27	Mr Manish K Bidawat	10/S10/355
8	Mr Jigar B Rana	07/M7/103	28	Mr Gurpreet Singh	10/S10/369
9	Mr Alok Kumar Gupta	07/M7/175	29	Mr Pankaj Kumar	10/S10/429
10	Mr Jitendra Singh	07/S7/267	30	Mr Rohit Sharma	10/S10/434
11	Mr Siyaram Maurya	07/S7/358	31	Ms Geetha Jagu	11/M11/66
12	Mr Mulrajsinh C Jadeja	08/M8/16	32	Mr Dushyanveer Singh	11/M11/311
13	Mr Ashish Sah	08/M8/85	33	Mr Senhal Lalitbhai Davda	11/S11/437

Sl. No.	Name	Roll No.	Sl. No.	Name	Roll No.
14	Mr Renjith Kumar A U	08/M8/89	34	Mr Abhishek Kumar	12/M12/191
15	Mr Parameshwar	08/M8/107	35	Mr Bishan Singh Rana	08/M8/151
16	Mr Subit Gupta	08/M8/120	36	Ms N Swarnalatha	12/S12/467
17	Mr Mool Chand	08/S8/281	37	Mr Sudhir Dattaram Bait	01/S3/314
18	Mr Vaibhav P Sawant	08/S8/291	38	Mr Suchendra Shetty	10/M10/105
19	Mr Asif Iqbal Jethva	09/M9/37	39	Mr Kuldeep	10/M10/106
20	Mr Yashpal Balaram Lokhande	09/M9/74			

Regional Centres / Students Chapters

New Regional Centres: Department of Chemical Engineering, BITS-Pilani, K K Birla Goa Campus, Zuarinagar, Goa had requested for approval to start a new Regional Centre at Goa. The Council decided in favour of opening a new Regional Centre at Goa.

The Council also noted with pleasure the inauguration of Guntur Regional Centre, IChE by the IChE Presedent, Mr G V Sethuraman on 03.04.2015.

New Students Chapters: The Council approved the formation of Students' Chapters in the Department of Chemical Engineering, at MITS, Gwalior (Madhya Pradesh) and Shaheed Bhagat Singh State Technical Campus, Ferozepur, (Punjab).

Other Items

Joint Petition of Engineering Associations / Bodies on Engineers Bill:

Prof. De informed about a communication sent on 28.03.2015 to ECI regarding "Engineers Bill" as sent by various other member associations/bodies. He also mentioned that Mr G V Sethuraman, President, had signed a Joint Petition and forwarded it to ECI for taking action at their end. The Hony. Secretary also updated the members about the progress of work regarding Engineers' bill.

The members were happy to note the progress of ECI enactment of Engineers bill.

Industrial Clinic: Mr. D M Butala suggested constitution of an Industrial Clinic for tackling problems faced by SMES and even big players in the various areas of plant operation. A group of experts from IChE members could be formed at the national level by networking through website, newsletter, Regional Centres, etc. for the purpose, which could offer guidelines through weblinks for resolving operational problems. This will be on 'no profit no loss' basis as a Service to Chemical Engineers, Mr. Butala suggested.

Members accepted the proposal for industrial clinic and requested Mr. Butala to work out the modus operandi for implementing the proposal.

4.2 4th meeting for 2015, held at Central Leather Research Institute Auditorium, Chennai on July 11, 2015 FICCI – IChE joint venture

The members considered the proposal at length on Chemicals & Petrochemicals Sector Skill Council (CPSSC) and deliberated. They also had in-depth discussion with Mr. Prabhsharan Singh, Head - Chemicals and Petrochemicals, FICCI and Mr. Mohan Reddy, Associate - Standards and QA from National Skills Development Corp. after a presentation made by Mr. Reddy on the subject. President Mr. G V Sethuraman suggested that Mr. Shyam Bang would represent IChE in the Governing Council of CPSSC and the members accepted the suggestion.

The members also constituted a committee comprising Mr. D M Butala, Mr. Shyam Bang, Mr. K Sahasranaman and Dr. P G Rao to look into different aspects of the proposal where IChE would participate and also formulate the procedures for implementing the same. The members further requested the committee to report the development of the matter to the Council from time to time.

Publication

Appointment of Honorary Editor: Based on the recommendation of the Search Committee, constituted for appointment of Honorary Editor during the 3rd meeting of the Council in Kolkata, the Council decided that Prof. V K Rattan would be appointed as Honorary Editor of IChE for 2 years with effect from 1st January 2016.

Industrial Clinic / Polyclinic for MSMEs

The members considered a detailed suggestion given by Mr. D M Butala in this regard, made following detailed deliberation at the Baroda Regional Centre. The members accepted in principle the suggestion made by Mr. Butala and decided to implement the same phase-wise as it would be of great help to the industry. It was further decided that the Regional Centres would be requested to take initiative in implementing the proposal for which a guideline would have to be framed.

Other Items

The members considered a long-term plan, submitted by Prof. Basava Rao, for raising interest among students about study of Chemical Engineering in general and about the role of IChE in nurturing the growth of Chemical Engineering as an academic subject and profession. The plan included the following aspects:

- *Chemical Engineering Awareness Programs:* Each student chapter has to conduct awareness camp in Junior colleges for 10+2 students regarding the importance of Chemical Engineering, Role of Chemical Engineer in the Industry, in the development of the Nation, Opportunities for chemical Engineers etc., The IChE has to prepare the schedule and instruct the Student chapters through the Regional Chapters for creating interest among the engineering aspirant students after the 10+2.
- *Industry Internships:* IChE will create internship programmes in collaboration with its Organizational Members from industries. Then IChE will select few students from each student chapter through the regional centres and send them for training. This will develop the technical skill and problem solving capacity among the chemical engineering students.
- *Remedial and Supplementary Teaching Materials:* IChE will enlist teachers as subject experts to prepare lecture notes in each chemical engineering subject and upload on the IChE website. This can be accessed by each student chapter and thereby students. This will be very much useful to the chemical engineering students who are academically weak.

The members, in principle, accepted the proposal and requested Prof. Basava Rao to do the needful for the benefit of students in consultation with Student Chapter Affairs Committee.

Financial

Quarterly Accounts: Hony. Treasurer Mr. Dipak Dutta presented the financial Statements of quarterly accounts for the quarter ending June 2015. The members noted the present financial position of the HQ, and requested the Honorary Secretary and Treasurer to curtail the expenditure to the possible extent. The members also discussed on the avenues for increasing the income of the HQ, and decided that (i) the Regional Centres would be requested to give a percentage of their income to the HQ, and (ii) Chemcon organizers would be requested to release the due amount to the HQ at the earliest.

Income Tax matter: Mr. Dipak Dutta apprised the members about the latest status relating to income tax, payable by the

Institute. The decision of the members in this regard included the following:

- (i) The Regional centres would be requested to pay the amount on pro-rata basis of the income tax withdrawn from the Bank by the IT authority in March 2012 and also of the tax which would have to be paid to the IT authority,
- (ii) Cases lying with the IT authority would be handled at a minimum cost soliciting opinions from concerned experts.

Membership

The Council approved the application from Dr. L V Muralikrishna Reddy (LM 44439), Chair, National Design & Research Forum, Bangalore and President, the Institution of Engineers (India), for the Fellowship of the Institute.

Examination

Prof. P. De, on request from the Council, decided for opening a new Examination Centre at IET (Institute of Engineering and Technology), Lucknow for conducting AMIChE examination there.

4.3 5th meeting for 2015, held at MIT Academy of Engineering, Alandi, Pune, on September 12, 2015

Subvention to the IChE Students' Chapters

The meeting considered its earlier decision regarding payment of subvention to Students' Chapters and decided that 50% of Rs. 400/- (Out of a total of Rs. 500/- towards compounding fees – Rs. 100/- towards admission fee) would henceforth be given as subvention to the Students' Chapters through the concerned Regional Centres.

SCHEMCON 2017

Prof. P De reported the receipt of a Bid Form from the Students' Chapter of IChE, NIT, Rourkela for organizing SCHEMCON 2017 there. The Council discussed the issue and decided that the SCHEMCON 2017 would be organized by the Students' Chapter of IChE, NIT, Rourkela at their institute.

Financial

Matters regarding Income Tax: Mr. Dipak Dutta reported receipt of the apportioned amount of Income Tax for 2008 – 09 from 5 Regional Centres, namely, Doaba, Kanpur, oimbatore, Annamalai-Neyveli and Nagpur, which had already been paid by the HQ. to the IT authority. The members noted with pleasure receipt of the amount and decided that the amount received/receivable from the Regional Centres would be utilized for repairing and maintenance of the HQ Building in Kolkata.

Organizational Member

Prof. De reported receipt of an application from Dr P G Jadhav, Head, Department of Chemical Engineering, Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded along with a DD of Rs. 11,000/- for Life Organizational Membership of the Institute. The meeting considered the application and approved the same.

Regional Centre / Student Chapter Affairs

Regional Centre: The Council decided in favour of opening a Regional Centre at National Institute of Technology, Durgapur as it fulfilled the relevant guidelines.

Students' Chapters: The Council approved in principle formation of the following Students' Chapters subject to fulfillment of the laid down criteria in the By-laws:

(i). Priyadarshini Institute of Engineering & Technology, Nagpur; (ii) Bharathidasan Institute of Technology, Anna University, Tiruchirapalli; (iii) KLE Dr M S Sheshgiri College of Engineering & Technology, Belagavi; (iv). Calcutta Institute of Technology, Uluberia, Howrah; (v). Rajiv Gandhi University, IIT, Nuzvid; (vi). K L University, Vaddeswaram.

4.4 6th meeting for 2015 held at Mini Auditorium, IIT, Guwahati on December 26, 2015

Subvention to the IChE Students' Chapters

In continuation of its earlier decision on the subject, the Council decided that Rs. 500/- (paid by student members as compound fees) would not henceforth be adjusted with the fee for Life Corporate Membership in case of one's transfer from student to corporate membership.

CHEMCON National Organizing Committee

With regard to formation of NOC for CHEMCON, Prof. De highlighted the relevant portion of the guidelines as reproduced below:

"The Council of the Institute shall hold the Congress through a National Organizing Committee (NOC) and a Local Organizing Committee (LOC) constituted for the purpose at least one year in advance of the CHEMCON concerned. The NOC will have one Chairman, one Vice-chairman, one Convener, (one Joint Convener if required), four zonal representatives and other individuals that the Council may add. The President, Vice-Presidents, Honorary Secretaries and Honorary Treasurer of IChE shall be ex-officio members of the NOC. Besides, the Chairman, Vice-chairman and the Organizing Secretary of the Local Organizing Committee will also be ex-officio members of the NOC. The NOC is mainly responsible for policy making and planning the technical events of the Congress."

The members after discussion decided that (i) The meeting of the NOC could also be held through electronic media, (ii) LOC should consist of at least 2 council members, and, (iii)

Undergraduate students would not be entertained to present technical papers in CHEMCON.

The Council also decided that henceforth a minimum amount of money (the quantum will be decided by the Council) should be given to HQ by the Chemcon Organizers.

Engineering Council of India

Prof. P De referred to a communication received from Mr B R Jain, Director, ECI through an e-mail dated 10.12.2015 regarding registration for Professional Engineer (PE) / Associate Professional Engineer (APE) / Student Engineer.

The members accepted in principle that the institute would request its members for their registration as professional engineer/associate professional engineer/student engineer as indicated in the said communication. They also requested the Honorary Secretary to take appropriate action on the matter.

Meeting of Professional Bodies and Educationists

Prof. P De apprised the members about the communication received from Prof. Satyanarayana who participated in the meeting of the professional bodies and educationists, arranged by the Institution of Engineers on 25th September 2015 at Kochi:

The members discussed the issue at length and decided that our representative(s) would attend the subsequent joint meeting/s, if held.

Publication

Prof P De reported that IChE-T&F publication agreement is due for renewal in January 2016. The corresponding clause in the agreement reads as follows:

"The IChE and the Publisher agree to publish the Journal for a minimum period of five years from the first day of January 2011 (Volume 53) and this Agreement shall take effect on the date shown at the head of this Agreement and shall continue until 31 December 2015, and shall automatically renew thereafter for a period of three years unless either party gives the other written notice of its intention not to renew this Agreement at least twelve months prior to the expiration of the current term".

The members after threadbare discussion decided to renew the agreement for a period of 3 years as mentioned in the clause.

Awards

Change of award name: Prof. P De informed the Council about receipt of an e-mail communication dated December 02, 2015 from Mr Nandkumar Dhekne, Vice President Asia, Solenis requesting to change the name of the "Ashland CDS Award" to "Solenis CDS Award" as the Ashland Water Technologies had been taken over by Solenis.

The Council agreed and requested Honorary Secretary to do the needful in the matter.

Honorarium enhancement for Dr B P Godrej Life Time Achievement Award: Prof. P De reported that Mr N B Godrej, Managing Director, Godrej Industries Ltd., In response to a request from Prof G D Yadav, Past President, IChE, had been pleased to enhance the award money for Dr B P Godrej Life Time Achievement Award from Rs. 1.50 lakh to Rs. 3.00 lakh (which includes honorarium of Rs 2.50 lakh and Rs. 50,000/- for travel, felicitation along with the spouse).

The Council noted it with pleasure and conveyed its gratitude and thanks to Mr. Nadir Godrej for this kind gesture and thanked Prof. Yadav for his endeavour.

Membership

Honorary Fellowship/Fellowship: The Council elected Prof C D Gopalarathnam and Dr Ajay Bansal as Fellows of the Institute on the basis of recommendations made by the members of the concerned committee.

Organizational Membership: The Council approved the admission of Nove Iresc India Pvt Ltd, New Delhi and SSN College of Engineering, Kalavakkam, Tamil Nadu as Life Organizational Member of the institute.

Examination

The following 50 candidates came out successfully out of 56 candidates, who appeared for March 2015 Home Paper Examination.

Sl. No.	Name	Roll No.	Sl. No.	Name	Roll No.
1	Mr Dineshchandra R Patel	00/S7/383	26	Mr Narasimha Murthy	09/S9/530
2	Mr Arupananda Mohanty	00/S8/551	27	Mr Hemant Hindurao Thorat	09/S9/556
3	Mr V Chandra Sekhara Reddy	04/S4/24	28	Mr Avdesh Bansal	10/M10/42
4	Mr Sanjay Singh	05/S5/264	29	Mr E C Mohanan	10/M10/227
5	Mr Devang G Bhojak	05/S5/382	30	Mr Veenu Kumar	10/M10/284
6	Mr Rama Kant	06/S6/331	31	Mr Nilesh M Chichpane	10/M10/297
7	Mr Narottam Kumar	06/S6/341	32	Mr Jaswinder Singh	10/S10/370
8	Mr Nishant Kumar Undwar	07/M7/100	33	Mr Chirag J Bhavsar	10/S10/376
9	Mr Chaganti Srinivasu	07/S7/280	34	Mr G Prakasa Varma	10/S10/408
10	Mr Manish Kumar Sinha	07/S7/304	35	Mr Mani Prasad Mishra	10/S10/410
11	Mr S Rajkumar	08/M8/18	36	Mr Bhavesh N Gurjar	10/S10/427
12	Mr Sanjeev Kumar	08/M8/91	37	Mr Vishal Vilvas	10/S10/474
13	Mr Mahendra Singh	08/S8/225	38	Mr Pallapu Praveen Kumar	10/S10/509
14	Mr Nilesh Anant Joshi	08/S8/283	39	Md Shamsad Alam	10/S10/512
15	Mr Ashish	08/S8/362	40	Mr Neeraj Kumar	10/S10/546
16	Mr Tarang Mathur	09/M9/5	41	Ms Jyoti	11/M11/29
17	Mr Prafulla M Madhavi	09/M9/54	42	Ms Poonam	11/M11/30
18	Mr Pritesh M Pandya	09/M9/77	43	Mr Mahesh Chand	11/M11/95
19	Mr Raj Kumar Mehta	09/M9/104	44	Mr Mahadev Mahapatra	11/M11/251
20	Mr Jagdish Prasad Singh	09/M9/155	45	Mr Buddha Vijay	11/M11/298
21	Mr Manoj Kumar Singh	09/M9/191	46	Mr Tapas Kumar Mandal	11/S11/347
22	Mr Shiv Pratap Singh	09/M9/192	47	Mr Narayan Prasad G K	12/M12/126
23	Mr Umesh Kumar Tiwari	09/M9/196	48	Mr Gautam Kumar Pandey	12/M12/413
24	Mr Shail Jit Singh	09/S9/376	49	Mr Reddi Sai Kumar	13/M13/49
25	Mr Tarashi N Vekariya	09/S9/513	50	Mr Hem Chandra Joshi	13/S13/323

Regional Centre / Student Chapter Affairs

Regional Centre: The Council approved in principle formation of a new Regional Centre of IChE in UPES, Dehradun, subject to fulfillment of criteria laid down in the Constitution and By-laws of the Institute.

Students' Chapters: The Council approved in principle formation of the following Students' Chapters subject to fulfillment of the laid down criteria in the By-laws:

(i) Delhi Technological University, Delhi and (ii) Parul Institute of Technology, Vadodara.

4.5 1st meeting for 2016 held at Conference Hall No. 3, IIT, Guwahati, on December 28, 2015.

Election of the President

The members elected Mr Shyam Bang as the President of the Institute for the year 2016.

Election of two Vice-Presidents

Prof. S V Satyanarayana and Prof. G A Shareet were elected unanimously as the Vice-Presidents of the Institute for the year 2016.

Co-option of Members to the Council (not more than 3) as provided in Rule 24.1 of the Constitution

The members decided unanimously to co-opt Prof. N. Balasubramanian, Department of Chemical Engineering, A C Tech Campus, Anna University, Chennai to the Council for 2016.

Election of Other Office Bearers

For the year 2016, the members unanimously elected Prof. P. De as the Honorary Secretary of the Institute; Dr. D. Mandal as the Honorary Jt. Secretary; Mr Dipak Dutta as the Honorary Treasurer; Prof. Radharani Das as Honorary Treasurer; Prof V K Rattan as Honorary Editor; and Prof. M. Venkateswara Rao was unanimously elected as Honorary Controller of Examinations.

4.6 2nd Meeting for 2016 held at Dr. B A Ambedkar National Institute of Technology, Jalandhar on March 5, 2016

FICCI - IChE

The President Mr Shyam Bang informed the members that (i) the MOU between the CHEMCON 2016 organizers and FICCI would be signed very soon, and, (ii) some programmes of IChE would be organized jointly with FICCI during the year.

Constitutional Amendments

Prof. P De reiterated that certain clauses in the constitution, based on the recommendation / suggestions, would have to be changed for the overall growth of the Institute keeping pace with requirement of the day. Such change(s) in the constitution

would require amendments of certain clauses in the Constitution. The Council discussed the issue and the President thereafter suggested formation of a sub-committee consisting of the following members:

Mr. G V Sethuraman (Chairman), Prof. P. De (Convener), Prof. V K Srivastava (Member), Dr. P G Rao (Member), Mr. D M Butala (Member), Mr. D P Misra (Member).

The members were requested to forward their suggestion for better functioning of the Institute.

Publication

Prof V K Rattan presented an email dated 19.2.2016 received from Robinson Raju, Publishing Editor, T&F Group as given below :

“In our mission to be environment-friendly, reduce wastage and become energy-and cost-efficient, Taylor & Francis is proposing to print issues less frequently beginning this year. Since the institute prints the issues to supply to its members, we are therefore seeking your approval to initiate this process. This means that T&F will send the institute two print files for two print copies of four issues for the Indian Chemical Engineer (each print copy will be a double issue). Are you happy printing two times a year instead of four?”

The members considered the issue and expressed their regret to accede to the proposal. The members, however, suggested printing the journal in A-4 sized paper.

Awards

Honorary Secretary reported that the announcements for the Awards and Prizes would be displayed in the Website of the IChE soon.

Fellowship

The Council elected Mr G V Sethuraman, Immediate Past President, as a Fellow of the Institute as per prevailing practice.

Student Chapter Affairs

The Council approved in principle formation of the following Students' Chapters subject to fulfillment of the laid down criteria in the By-laws:

(i) NIT, Hamirpur, and (ii) Beant College of Engineering & Technology, Gurdaspur.

Associate Membership Examination

Mr. Shyam Bang informed the members that he along with Prof. V K Srivastava and Prof. M K Jha had met the Chairman of AICTE on 26th February 2016 and requested through a letter dated 25th February him to consider the passed out candidates of AMIChE from IChE along with M.E/ M.Tech.degree

acquired through contact mode (regular/part time) to be eligible for the appointment as faculty in Technical Education, similar to that being enjoyed by Institution of Engineers (Vide Extraordinary Gazette notification, part III, Section 4, where under item (E), Miscellaneous issues, sl. no. 67, page 31: the passed out candidates of AMIE offered by Institution of Engineers, along with M.E./ M.Tech. degree acquired through contact mode (regular/part time) is eligible for the appointment as faculty in Technical Education).

Syllabus revision: Some members suggested for developing a model syllabus of Chemical Engineering course for the undergraduate students. The suggestion for scrutiny of the existing syllabus for the said course offered by the institutions in the country was also discussed. Prof. V.K.. Srivastava (Ex-IIT) informed the members that NRC, IChE had been doing the same.

Prof. Chaurasia briefed the Council about suggestions being made by UGC and AICTE for introduction of two industry related courses in the syllabus for UG Chemical Engineering discipline.

Other Items

Prof. P De reported the receipt of an Email dated 24.02.2016 from Prof G D Yadav requesting the President and Honorary Secretary to take strong initiative for inclusion of Chemical Engineering discipline for Engineering Services Examination (ESE), conducted by UPSC for recruitment of Engineers against vacancies in Government Services.

The President informed that the request through a letter dated 25th February 2016 on the above context had been made to the Chairman, AICTE and apprised the members about the conversation he had with the Chairman. The members decided to make a request to the Chairman, UPSC for inclusion of Chemical Engineering discipline for ESE.

5.0 Institute's Representatives on 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. Basic Chemical Engineering Standards
Principal Nominee - Prof K D P Nigam
Alternate Nominee - Dr R N Trivedi
- d. Process Vessels Sub-committee
Principal Nominee - Dr P G Rao
Alternate Nominee - Prof B K Guha

- e. Heat Generation & Heat Transfer Equipment Sub committee
Principal Nominee - Prof K J R Sarma
Alternate Nominee - Dr V K Srivastava
 - f. Crushing & Grinding Equipment Sub-committee
Principal Nominee - Prof N Subrahmanyam
 - g. Size Separation & Filtration Sub-committee
Principal Nominee - Mr Sunil Kapadia
Alternate Nominee - Prof S Basu
 - h. Drying Equipment Sub-committee
Principal Nominee - Mr Jai Uppal
Alternate Nominee - Dr M K Bhattacharjee
 - i. Packing & Gasket Sectional Committee
Principal Nominee - Dr Amalendu Datta
 - j. Refrigeration & Airconditioning Sectional Committee
Principal Nominee – Dr D Sathiamoorthy
Alternate Nominee - Dr Sudip K Das
- 2) Asia Pacific Confederation of
Chemical Engineering - Prof G J V J Raju
 - 3) **Engineering Council of India** -
Prof V K Srivastava
 - 4) **World Council of Chemical Engineering** -
Mr K Venkataramanan
 - 5) **Technical Advisory Board – Chemical Science & Technology, CSIR** - Prof A K Mitra

6.0 Membership Position

Number of applications received for membership during the period under review (April 1, 2015 to March 31, 2016), the number approved by the Council and the actual enrolment during the referred period was 3856, 3864 and 3864, respectively.

Membership position as on 31 March 2016 is given below along with the corresponding figures as on March 31, 2015 and March 31, 2014.

	March 31, 2016	March 31, 2015	March 31, 2014
Organisational Member (Life)	61	58	58
Organisational Member (Annual)	60	60	58
Honorary Fellow	128	126	122
Fellow (Life)	112	99	100
Fellow	22	32	32
Member (Life)	5163	5001	4737
Member	753	759	757
Life Associate Member	2512	2378	2122
Associate Member	939	947	912
Student Member	12368	12157	13824

The number of members attached to each of the Regional Centres (as on March 31, 2016) are as follows:

Sl. No	Regional Centre	No. of Members
1.	Ahmedabad	180
2.	Ankleshwar	718
3.	Annamalai	376
4.	Bangalore	806
5.	Baroda	382
6.	Bhubaneswar	275
7.	Calcutta	957
8.	Chandigarh	514
9.	Chennai	1689
10.	Coimbatore	223
11.	Damanjodi	128
12.	Dehradun	198
13.	Doaba	132
14.	Durgapur	110
15.	Guwahati	85
16.	Goa	92
17.	Guntur	389
18.	Haldia	308
19.	Hyderabad	865
20.	Jaipur	227
21.	Kalpakkam	85
22.	Kanpur	184
23.	Kharagpur	72
24.	Kochi	538
25.	Lote	82
26.	Lucknow	127
27.	Mangalore	177
28.	Mumbai	1410
29.	Nadiad	382
30.	Nagpur	491
31.	Northern	654
32.	Paradeep	25
33.	Pilani	138
34.	Pondicherry	48
35.	Pune	581
36.	Rourkela	71
37.	Trivandrum	407
38.	Vapi	71
39.	Waltair	427

The following organizations were admitted as Organizational Members of the Institute upto March 31, 2016:

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	Haldor Topsoe International A/S, New Delhi
17	Heavy Water Board, Mumbai
18	Hercules Speciality Chemicals (India) Pvt. Ltd., Bangalore
19	Herdillia Chemicals Ltd., Mumbai
20	Hetero Drugs Ltd., Hyderabad
21	Hikal Ltd., Taloja, Maharashtra
22	Hindustan Dorr-Oliver Ltd., Mumbai
23	Hindustan Latex Ltd., Thiruvananthapuram
24	Indian Oil Corporation Ltd., Refinery Division, New Delhi
25	Jacobs H&G Pvt. Ltd., Mumbai
26	Kavaerner Powergas India Ltd., Mumbai
27	Kavin Engineering & Services Pvt. Ltd., Coimbatore
28	Labindia Instruments Pvt. Ltd., Thane
29	Llyod's Register of Shipping, New Delhi
30	Mecon Ltd., Ranchi
31	MMTC-PAMP India Pvt. Ltd., New Delhi
32	National Organic Chemicals Industries Ltd., Mumbai
33	Novo Iresc India Private Ltd., New Delhi

34	Oil and Natural Gas Corporation Ltd., Dehradun
35	Pidilite Industries Ltd., Mumbai
36	RPG Life Sciences Ltd., Mumbai
37	Sartorius India Pvt. Ltd., Bangalore
38	Sud-Chemie Inda Ltd. (United Catalyst India Ltd.), Mumbai
39	Themis Medicare Ltd., Mumbai
40	Toyo Engineering India Ltd., Mumbai
41	TUV Sddeutschland Ltd., Mumbai
42	United Phosphorus Ltd., Ankleshwar, Gujarat
43	Vical Inc., USA

Permanent Organisational Members – Research & Educational Institutes

1	Central Leather Research Institute, Chennai
2	Central Salt & Marine Chemicals Research Institute, Bhavnagar
3	Chaitanya Bharathi Institute of Technology, Hyderabad
4	Heritage Institute of Technology, Kolkata
5	High Energy Material Research Laboratory, Pune
6	Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu
7	Indian Institute of Chemical Technology, Hyderabad
8	Regional Research Laboratory, Jorhat
9	National Chemical Laboratory, Pune
10	National Productivity Council, Chennai
11	SSBT's College of Engineering & Technology, Jalgaon, Maharashtra
12	Sathyabhama Engineering College, Chennai
13	Shri Guru Gobind Singhji Institute of Engineering & Technology, Nanded, Maharashtra
14	St. Joseph's College of Engineering, Chennai
15	SSN College of Engineering, Tamil Nadu
16	Sri Venkateswara College of Engineering, Sriperumbudur, Tamil Nadu
17	Swami Ramananda Tirtha Institute, Nalgonda
18	Vikram Sarabhai Space Centre, Thiruvananthapuram

Ordinary 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
14	Diamines & Chemicals Ltd., Baroda
15	Engineers India Ltd., New Delhi
16	Fertilizers and Chemicals Ltd., Secunderabad
17	Garg Lab Glass Industries, Vapi, Gujarat
18	Gas Authority of India Ltd., New Delhi
19	Gujarat Ambuja Cements Ltd., Kodinar
20	Gujarat Insecticides Ltd., Ankleshwar
21	Gujarat Narmada Valley Fertilizers Co. Ltd., Narmadanagar
22	Gujarat Sidhee Cement Ltd., Veraval
23	Gujarat State Fertilizer & Chemicals Ltd., Vadodara
24	Heavy Water Plant, Tuticorin
25	HEL India Ltd., Thane
26	Heubach Colour Pvt. Ltd., Ankleshwar
27	Hindustan Antibiotics Ltd., Pune
28	Hindustan Insecticides Ltd., New Delhi
29	Hindustan Organic Chemicals Ltd., Rasayani, Maharashtra
30	Hindustan Paper Corporation Ltd., Calcutta
31	Indian Petrochemical Corporation Ltd., Baroda
32	Indian Rayon Ltd., Veraval, Gujarat
33	Kevin Enterprises Pvt. Ltd., Mumbai
34	Mafatlal Industries, (Navine Flourine Industries – Chemical Division) Mumbai

35	Narmada Chematur Petrochemicals Ltd., Varuch
36	NuChem Ltd., Faridabad
37	Nuclear Fuel Complex, Hyderabad
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, New Delhi
43	Southern Petrochemical Industries Corp. Ltd., Chennai
44	Sun Pharmaceutical, Panoli
45	Surya Organics and Chemicals, Ankleshwar
46	Standard Industries Ltd., Mumbai
47	Standard Certification Council Pvt. Ltd., Mumbai
48	TCP Ltd., Chennai
49	Tata Chemicals Ltd., Mithapur
50	Textile Rubber & Chemical Co Pvt Ltd., Bhadohi
51	Trident Alco-Chem Ltd., Ludhiana
52	Vihita Chem Pvt. Ltd., Ankleshwar
53	Zuari Agro Chemicals Ltd., Zuarinagar, Goa
54	Zandu Chemicals Ltd., Ankleshwar

Ordinary Organisational Members – Research & Educational Institutes

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

7.0 Associated Membership Examination

The number of candidates who appeared at the Institute's Associate Membership Examination during last 10 years was as follows:

Year	No. of Candidates
2006	1676
2007	1529
2008	1749
2009	1999
2010	2222
2011	2406
2012	2495
2013	2283
2014	1872
2015	1427

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

Year	Semester	No. Appeared	No. Passed	% of successful candidates
2005	March	41	39	95.1
	September	30	28	93.3
2006	March	27	21	77.8
	September	60	58	96.7
2007	March	33	30	90.9
	September	38	34	89.5
2008	March	35	33	94.3
	September	39	36	92.3
2009	March	22	22	100.0
	September	34	31	91.1
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

8.0 IICHe Awards 2015

Following is the list of IICHe Awards, presented annually in recognition of eminence and excellence in various sphere of chemical engineering profession. Also included is the list of recipients of the awards, presented at CHEMCON 2015, held during December 27 - 30, 2015 at Guwahati, Assam.

Dr.B.P.Godrej Life Time Achievement Award

Mr Ashok A Panjwani
Executive Director, UPL Ltd., Gujarat

National Awards

Lala Shriram National Award for Leadership in Chemical Industry

Mr Chandrakant V Gogri, Aarti Group of Companies
Mumbai

Herdillia Award for Excellence in Basic Research in Chemical Engineering

Professor B C Meikap, IIT, Kharagpur

Hindustan Lever Biennial Award for the Most Outstanding Chemical Engineer of the Year under the Age of 45 years

Dr Sundergopal Sridhar, Principal Scientist, CSIR-IICT
Hyderabad

NOCIL Award for Excellence in Design or Development of Process Plant and Equipment

Prof (Dr) B N Thorat, ICT. Mumbai

Amar Dye-Chem Award for Excellence in Research and Development in Chemical Engineering below the Age of 35 years

Dr Venkat Padmanabhan, IIT, Kharagpur

Shah-Schulman Award for the Best Ph.D. thesis in the Area of Colloid and Interface Sciences

For the year 2014

Dr Hemalatha Annepu, Lead Scientist, EGOMA
Technologies Pvt Ltd
IIT Kanpur

For the year 2015

Dr Siva Rama Krishna Perala, Post Doctoral Associate,
Massachusetts Institute of Technology,
Cambridge, USA

Dr A V Rama Rao Foundation's Best PhD Thesis and Research Award In Chemical Engineering/Technology for the Year 2015

Dr Pravakar Mohanty, Scientist-C, Science & Engineering
Research Board
New Delhi, and

Prof K K Pant
IIT, Delhi, New Delhi

CHEMCON Distinguished Speaker Award Solenis Bharat Ratna Prof C N R Rao Medal and Chemcon Distinguished Speaker Award

Dr Girish Sahni, DG, CSIR

RPG Life Sciences Padma Vibhushan Prof M M Sharma Medal and Chemcon Distinguished Speaker Award

Dr Ashish Lele, NCL, Pune

Asian Paints Padma Bibhushan Dr R A Mashelkar Medal and Chemcon Distinguished Speaker Award

Prof G D Yadav, Vice-chancellor, ICT, Mumbai

Deepak Group's Padma Bhushan Prof L K Doraiswamy Chemcon Distinguished Speaker Award

Prof Ranil Wickramasinghe, University of Arkansas, USA

Chemical Weekly's Padmashri Dr G P Kane Chemcon Distinguished Speaker Award

Prof Geoffrey Evams, University of Newcastle, Australia

Hetero Drugs Prof G S Laddha Chemcon Distinguished Speaker Award

Prof W S Winston Ho, Ohio State University, USA

IICT-Avon Padmashri Dr G S Sidhu Chemcon Distinguished Speaker Award

Prof Rakesh K Gupta, West Virginia University, USA

Sartorius India's Chemcon Distinguished Speaker Award

Prof Ranjana Chowdhury, Jadavpur University, Kolkata

United Phosphorus Chemcon Distinguished Speaker Award

Dr (Smt) S B Roy, BARC, Mumbai

Hikal's Chemcon Distinguished Speaker Award

Shri Prakash D Hirani, NTPC Ltd, New Delhi

CSMCRI Chemcon Distinguished Speaker Award

Prof Sirshendu De, IIT, Kharagpur

CLRI Padmabhushan Dr Y Nayudamma Chemcon Distinguished Speaker Award

Prof B K Dutta, Former President, IICHe

DOST Professor S K Sharma Medal and Chemcon Distinguished Speaker Award

Prof. A. Ghatak, IIT, Kanpur

CHEMCON NEERI Distinguished Speaker Award

Prof Vimal Katiyar, IIT, Guwahati

NCL's Professor K Venkataraman Chemcon Distinguished Speaker Award

Prof Dipankar Bandyopadhyay, IIT, Guwahati

Other Awards

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)

1st Prize

Mr Chitresh Kumar Bhargava

Jaypee University of Engineering & Technology, Guna

2nd Prize

Ms R Narmadha

ICT, Mumbai

Chemical Weekly Award for the Best Paper Published in the Institute's Journal (ICE-2014)

Mr Deepak Bisht

UOP India Pvt Ltd, Gurgaon, Haryana and

Mr John Petri

UOP LLC, USA

IChE NRC Award Best Paper in "Indian Chemical Engineer" 2014

Mr Deepak Bisht

UOP India Pvt Ltd, Gurgaon, Haryana and

Mr John Petri

UOP LLC, USA

The Kuloor Memorial Award to the best technical paper published in the journal of the Institute in the issues of the preceding year

Mr Deepak Bisht

UOP India Pvt Ltd, Gurgaon, Haryana and

Mr John Petri

UOP LLC, USA

IChE NRC Award 2nd Best Paper in "Indian Chemical Engineer" 2014

Dr S B Jonnalagadda, and

Dr S Nadupalli

University of Kwazulu-Natal, Durban, South Africa

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

Dr S B Jonnalagadda, and

Dr S Nadupalli

University of Kwazulu-Natal, Durban, South Africa

IChE NRC Award 3rd Best Paper in "Indian Chemical Engineer" 2014 (Jointly awarded)

Dr Nitin Somkuwar Dr Nitin Kolhe and Dr Virendra Rathod

ICT, Mumbai

Dr Mayank Agrawal, Dr Raju Mishra and Dr Raj Ganesh S Pala

IIT, Kanpur

Mr.M.H.Shukla Prize for Best Tech Paper presented in preceding year CHEMCON (2 Prizes)

1st Prize

Dr Manoj P Kamble and Dr G D Yadav

ICT, Mumbai

2nd Prize

Dr S K Sharma, Dr Pankaj Chawla and Dr Amrit Pal Toor

Panjab University, Chandigarh

Mrs.Chinnamaul Memorial. Prize for Best Tech Paper presented in preceding year CHEMCON

Dr Manoj P Kamble and Dr G D Yadav

ICT, Mumbai

Acharya P C Ray Award for the Best Home Paper at the Final Degree Examination (2 Prizes)

1st Prize

Mr Sagar B Udyavara

ICT, Mumbai

2nd Prize

Mr Shrinath D Ghadge

ICT, Mumbai

Ambuja's Best Home Paper or Design Project Report Awards (3 Prizes)

1st Prize

Mr Sai Krishna Chaitanya Sastry

School of Chemical & Bio Technology, Sastra University, Thanjavur

2nd Prize

Mr Ashish Jayaraman

ICT, Mumbai

3rd Prize

Mr Swapnil D Deshmukh

ICT, Mumbai

Pankaj P Patel Trust Essay Competition Prize

Ms K Divya

Coimbatore Institute of Technology, Coimbatore

Kishore K Das Memorial Prize for securing highest marks in Part-III (Home Paper) Associate Membership Examination of the Institute

AMIIChE Exam held in September 2014

Mr Bishan Singh Rana

Mathura Refinery Nagar, Mathura

AMIIChE Exam held in March 2015

Mr Ashish

IFFCO, Allahabad

Prof D K Guha Award for the Most Outstanding AMIChE Candidate securing Highest Percentage of Marks in AMIChE Examination amongs Candidates registererd during the Last Four Years

Mr Hem Chandra Joshi
Panipat Refinery Township, Panipat, Haryana

N R Nandi Memorial Prize for Securing Highest Marks in AMIChE Examination

Mr Hem Chandra Joshi
Panipat Refinery Township, Panipat, Haryana

VICAL Award for best Students Activities for the Best Paper Presentation during the previous SCHEMCON (3 Prizes)

1st Prize

Mr Avijit Ghosh
Haldia Institute of T, Haldia

2nd Prize

Ms Indumoni Das and
Ms Swapnali Hazarika
CSIR-North East Inst of Sc & Tech
Jorhat, Assam

3rd Prize (jointly awarded)

Mr Vishwajit Salunkhe, Mr Pratik Rathi and Vaibhav Sawant &
Mr Ankush A Patil, Akshaykumar Pharate and Mr Mayur A Chaudhari
MIT Academy of Engineering, Alandi, Pune

M P Chary Memorial Award

Mr Pankaj N Patil
Global Institute of Technology, Taluka

Late Lakshmi Nandakumar Awasrd of the Institute for best presentation in Schemcon 2015 by a Lady Student

Ms Mouna H M
BITS Pilani K K Birla Goa Campus, Goa

Gouri Dutta Award for the Best Paper presentation in Schemcon 2015 of the Indian Institute of Chemical Engineers

Mr Amir Bombaywala, Mr Shubham Phalle and Mr Shubham Wankhede
Sinhgad College of Engineering, Vadgaon

Ambuja's Young Researcher's Awards for doing Post-Graduate Studies in India after GATE Examination (Ten Prizes)

1st Prize

IChE Student Chapter
Sri Venkateswara College of Engineering, Pennalur,
Sriperumbudur

2nd Prize

IChE Student Chapter
National Institute of Technology Warangal ,Warangal

Pidilite's Best Student Chapter Award

IChE Student Chapter
RVR & JC College of Engineering (A),Guntur

Best Regional Centre Award (3 Prizes)

Category "A" Best
Mumbai Regional Centre, IChE

Category "B" Best
Bangalore Regional Centre, IChE

Category "B" Second Best
Haldia Regional Centre, IChE

Prof.P.Sen Gupta Award for Best Employee (IChE) of the Year

Mr K C Mondal
IChE, Kolkata

9.0 Students' CHEMCON

The 11th annual session or SCHEMCON 2015 was organized by the MIT Academy of Engineering, Alandi, Pune and the Pune Regional Centre on 12 and 13 September 2015 .

With 'Sustainable Development for Better Tomorrow' as the central theme for this year's SCHEMCON, the focus was on newer aspects of sustainable development, such as, Energy and Environment, Catalysis, Chemical Reaction Engineering, Thermodynamics, Mass/Heat/Momentum Transfer. Herbal Extraction, Renewable Energy, Modeling and Simulation, Safety, Bioprocess and Biotechnology, Process Control, Process Development & Design; etc. There was immense interest among the budding chemical engineers as evident from the fact that as many as 407 abstracts were shortlisted for oral / poster presentation. Four abstracts were shortlisted for M P Chary Award presentation. The abstracts were segregated into different thrust areas and 10 parallel sessions were held for these thrust areas.

SCHEMCON 2015 was inaugurated by industry bigwigs in the presence of the senior authorities of IChE. Mr. Pramod Chaudhuri, Executive Chairman, Praj Industries Ltd., Pune was the Chief Guest; Dr. R.R. Sonde, Executive Vice President, Thermax India Ltd., Pune was the Guest of Honour; Prof. V. D. Karad, Founder, Executive President and Managing Trustee, MAEER's MIT Group of Institutions, Pune; Mr. G.V, Sethuraman, President, IChE; Prof. P. De, Hony. Secretary, IChE; Dr. Sunil Karad, Executive Director & Trustee, MAEER's MIT Group of Institutions, Pune; Dr. Y.J. Valerao, Principal, MIT Academy of Engineering, Alandi and Chairman,

Organising Committee, SCHEMCON 2015; Dr. S.H. Vaidya, Chairman, IChE, Pune Regional Centre and Vice Chairman, Organising Committee, SCHEMCON 2015; Prof. N.M. Rane, Convenor, SCHEMCON 2015; and Dr. S.V. Taralkar, Organising Secretary, SCHEMCON 2015 were the dignitaries present during the inaugural function.

SCHEMCON 2015 was dedicated to Prof. V.D. Karad on the occasion of his 75th birth day. The souvenir for SCHEMCON 2015 was released at the inaugural programme in presence of the dignitaries. The inaugural address was delivered by Mr. Pramod Chaudhuri, who, in a motivational fashion, spoke on various ways of achieving sustainable developments for betterment of mankind and society. The inaugural session was followed by a key-note address by Dr. R.R. Sonde on the recent trends in sustainable developments. He asked the students for choosing a correct area of research for their future career.

A total of 390 papers out of the selected 407 abstracts were segregated on the basis of various thrust areas. They were chosen for oral (215) and poster (175) presentations in various parallel sessions. A total of 32 best papers for oral and seven best papers for poster presentation from each of the thrust areas in each session was awarded the Best Paper Trophy and Certificate of Merit. All the Technical Sessions were chaired by experts and authorities from academics, industry and research organizations. Four young chemical engineers who have completed PhD or are doing PhD with their age below 35 years presented their research work for M P Chary Award. Dr. Pankaj N Patil from Gharda Institute of Technology, Lavel, Chiplun was declared the award winner. The session was chaired by IChE Vice Presidents Mr. D.M. Butala and Prof. V.V. Basava Rao.

For the Valedictory Session of SCHEMCON 2015, Prof. G.D. Yadav, Vice Chancellor, Institute of Chemical Technology, Mumbai was the Chief Guest. Dr. V.S. Sapkal, former Vice Chancellor, Nagpur University, was the Guest of Honour. Mr. Kumar Mulemane, Director-Engineering, Techniti; Mr. G.V. Sethuraman, President, IChE; Mr. Yogesh Mistry, General Manager-Piping, Techniti; Dr. S.H. Vaidya, Vice Chairman, SCHEMCON 2015; Prof. N.M. Rane, Convenor, SCHEMCON 2015; and Dr. S.V. Taralkar, Organising Secretary, SCHEMCON 2015; and Dr. M.B. Patil, Treasurer, SCHEMCON 2015 were present at the session.

On the occasion, Prof. Yadav delivered a special talk on 'Role of Chemical Engineers in Make in India'. All the winners of Technical Sessions were awarded with the Best Paper Trophy and Certificate of Merit by the dignitaries present during the valedictory function.

The event was entirely sponsored by various funding agencies and industries, such as, Department of Chemicals and Petrochemicals, Ministry of Chemicals and Fertilisers, Government of India; Thermax India Ltd.; IChE, Pune Regional Centre; IChE Hyderabad Regional Centre; IChE Northern Regional Centre; Vansum Industries; IChE Bangalore Regional Centre; KSB Instruments Co. Pvt. Ltd.; HES Solutions Pvt. Ltd.; Equinox Software & Services Pvt. Ltd.; etc.

10.0 Institute's Library

The library at the HQ of the Institute in Kolkata currently has a stock of 995 books. It has received 60 issues of weekly journals, 7 issues of quarterly journals, 9 issues of bimonthly journal and 55 issues of monthly journals during the intervening period.

11.0 Regional Centre Affairs

The HQ did not receive Annual Report for the year 2015-16 from the following Regional Centres:

- i) Ahmedabad, ii) Chandigarh, iii) Durgapur, iv) Dehradun, v) Goa, vi) Kalpakkam and vii) Kanpur.

A. Executive Committees (EC) 2015-16

11.1 Ahmedabad Regional Centre

EC list has not been received.

11.2 Ankleshwar Regional Centre

Chairman : Mr D M Gandhi, **Vice-Chairman** : Mr S Thakar, Mr M A Hania, Mr S Sankaranarayanan, Mr A K Jain, Mr Kamlesh Sukhvani, **Honorary Regional Secretary** : Mr N B Saraiya, **Honorary Ex-Secretary**: Mr Nitin Patel, **Honorary Regional Treasurer** : Mr M I Shamsi, **Honorary Regional Jt.Secretary-Jhagadia** : Mr Sunil Motiramani, **Jt Secretary-Dahej** : Mr Yusuf Hussain, **Jt Secretary-Valia** : Mr Snehal Tralsawala, **Jt Secretary-Ankleshwar**: Mr K H Pandit, **Jt Secretary – Bharuch**: Mr R R Khandpur, **Jt Secretary : Panoli** : Mr Satyan Pandya **Members**: Mr Manoj Kamalia, Mr A K Sahni, Mr B D Dalwadi, Mr P G Dave, Prof S J Wagh, Mr A I Shaikh, Mr Jayen Mehta, Mr Rajesh Kumar, Mr P B Shah, Mr B J Patel, Mr R S Senjalia, Mr Ganesh R Sharma, Mr Dinesh Patel, Mr Shashi Shekhar, Mr Rishabh Sheth, Mr Rilesh Mehta, **Immediate Past President** : Mr V K Nema

11.3 Annamalai-Neyveli Regional Centre

Chairman : Dr C Karthikeyan, **Vice-Chairman** : Dr V Vijayagopal, **Honorary Regional Secretary**: Dr R Saravanan, **Honorary Regional Jt.Secretary** : Dr M Rajasimman, **Honorary Regional Treasurer** : Dr R. T Viruthagiri, **Members**: Dr Rm Meyyappan, Dr R Dhanasekar, Dr B Suresh,

Dr S Dhanasekaran, Dr K Manikandan, Dr T R Manikkandan, Dr P Elavarasan, Dr B Sivaprakash, Dr S Subhagar and Mr M Ebisankar.

11.4 Bangalore Regional Centre

Chairman : Prof Y J Rao, **Vice-Chairman** : Prof G A Shareef, **Honorary Regional Secretary** : Dr Brijesh, **Honorary Regional Jt Secretary** : Mr V Venkatesham, **Honorary Regional Treasurer** : Mr K A Badarinarayana **Members** : Dr Anand B Halgeri, Mr P T Raghuram, Mr K R Ananth, Mr S Swaminathan, Mr G Kishore Kumar, Dr K S Rajanandam, Dr Mohandas Bhat and Dr Archana.

11.5 Baroda Regional Centre

Chairman: Mr K Sudhakar, **Vice-Chairman**: Mr R K Desai, Mr Nilesh Mangukia & Mr D Chakraborty, **Honorary Regional Secretary** : Mr Nikhil Tonapi, **Honorary Regional Jt Secretary**: Mr Vipul Mehta, **Honorary Regional Treasurer**: Prof N M Surana, **Members**: Mr M G Patel, Dr Nitin Bhat, Mr Brijesh Trivedi, Nikunj Parekh, Mr Manan Joshi & Sameer Bhatt

11.6 Bhubaneshwar Regional Centre :

Chairman : Mr Jagjivan Rath, **Vice-Chairman** : Dr P C Rath, **Honorary Regional Secretary** : Mr Swagat S Rath, **Honorary Regional Jt. Secretary** : Dr Ranjita Swain, **Honorary Regional Treasurer** : Dr M K Ghosh, **Members** : Prof G K Roy, Dr Kadambini Sarangi, Dr Bisweswar Das, Dr C R Panda, Mr Rajesh Kanungo, Dr Swati Mohanty (Ex-officio)

11.7 Calcutta Regional Centre :

Chairman : Mr Asok K Das, **Vice-Chairman** : Prof Chiranjib Bhattacharyya, **Honorary Regional Secretary** : Mr Sushanta K Roy, **Honorary Regional Jt Secretary** :Dr Sharmistha Bose, **Honorary Regional Treasurer** : Mr Abhyuday Mullick , **Members** :Prof B N Srimani, Prof N K Brahma, Prof Sarajit Bosu, Prof Swami Vedjnanda, Mr Ananjan Kr Bhattacharyya, Prof R K Saha, Dr Rajat Chakraborty, Prof Amalesh Sirkar, Dr Sangita Bhattacharyya, Dr Ranjana Choudhury.

11.8 Chandigarh Regional Centre :

Chairman : Prof S K Sharma, **Vice-Chairman**: Mr Sandeep Sharma, **Honorary Regional Secretary**: Prof V K Rattan, **Honorary Regional Jt Secretary** : Mr Deepak Mehon, **Honorary Regional Treasurer** : Prof R K Chhabra, **Members** : Mr Amit Sobti, Prof Amrit Pal Toor, Prof Anupama Sharma, Dr Gaurav Rattan, Prof Ritu Gupta, Prof Seema Kapoor, Prof Sushil Kumar Kansal & Mr S S Bhinder.

11.9 Coimbatore Regional Centre :

Chairman : Dr A Sivalingam, **Vice-Chairman** : Dr K Kannan, **Honorary Regional Secretary** : Dr D Prabhakaran, **Honorary Regional Jt Secretary**: Ms V P Mohanjeayavalli, **Honorary**

Regional Treasurer : Mr P Sivakumar, **Members**: Prof. Dr T Kannadasan, Dr M Thirumarimurugan, Dr V M Sivakumar, Mr S Ramachandran, Mr R Sri Prabu, Mrs Anitha Sri Prabu, Mr G Gnanavel, Prof K Senthilkumar, Dr Murali Rangarajan & Dr Udhaya Bhaskar Reddy.

11.10 Chennai Regional Centre:

Chairman : Dr N Balasubramanian, **Vice-Chairman** : Prof R Dorairaj, **Honorary Regional Secretary** : Mr K Sadanand, **Honorary Regional Secretary** : Mr K Sadanand, **Honorary Regional Jt Secretary** : Dr G Baskar, **Honorary Regional Treasurer**: Mr B S Naveen Prasad, **Members** : Dr G Venkatarathinam, Mr S Sekar, Dr M P Rajesh, Dr D Joshua Amarnath, Dr R Parthiban, Dr G Rajasekar, Dr S Renganathan, Dr K Muthukumar (Ex-officio) Co-opted Members : Mr Anantharaman, Dr K Ramakrishnan & Mrs Lakshmi Vaideeswaran.

11.11 Doaba Regional Centre

Chairman : Dr M K Jha, **Vice-Chairman** : Dr Ajay Bansal, **Honorary Regional Secretary** :Dr Shailendra Bajpai, **Honorary Regional Jt Secretary** : Dr Sangeeta Garg, **Honorary Regional Treasurer**: Mr Kamoj Kumar **Members** : Dr A K Jana, Dr Renu Gupta, Dr Poonam Gera, Mr N K Srivastava, Dr Neetu Divya, Ms Rubalpreet Kaur, Dr Rajeev Garg & Mr Manoj Jindal.

11.12 Damanjodi Regional Centre

Chairman : Mr Sharanan Chaudhuri, **Vice-Chairman** : Mr Prafulla Kumar Patra. **Honorary Regional Secretary** : Mr N Murali Sridhar, **Honorary Regional Joint Secretary** Mr Dillip Kumar Sahoo, **Honorary Regional Treasurer** : Mr B Viinod Kumar, **Members**: Mr R S Dharman, Dr Ashalata Gantayat, Mr Prabhat Sahoo, Mr Sudhir Kumar Sahu, Mr Sk Md Ali.

11.13 Durgapur Regional Centre

Chairman: Prof T Kumar, **Honorary Regional Secretary** : Dr J P Sarkar.

11.14 Dehradun Regional Centre

Not received.

11.15 Guwahati Regional Centre

Chairman : Prof B P Mandal, **Vice-Chairman** : Mr P K Dutta, **Honorary Regional Secretary**: Dr Vimal Katiyar, **Honorary Regional Jt Secretary** : Dr Prakash Kotecha, **Honorary Regional Treasurer** : Dr Pankaj Tiwari, **Members**: Prof Pallab Ghosh, Prof Prabirkumar Saha, Prof V S Moholkar, Dr Mihir K Purkait, Dr Animesh Golder, Dr Tapas K Mandal, Dr Ashok K Dasmahapatra, Dr Amit Kumar, Dr Rajesh Kumar Upadhyay, Mr Rahul Patwa, Mr Babul Prasad, Mr Narendren S and Prof R Choudhury.

11.16 Goa Regional Centre

Chairman : Prof Saibal Ganguly, **Vice-Chairman :** Prof Srinivas Krishnaswamy, **Honorary Regional Secretary :** Prof Saroj Sundar Baral

10.17 Guntur Regional Centre

Chairman : Mr J Murali Mohan, **Vice Chairman :** Mr P Kanakaraju, **Honorary Regional Secretary:** Dr M Venkateswara Rao, **Honorary Regional Jt Secretary :** Mr D Gokul, **Honorary Regional Treasurer :** Dr C V Subrahmanyam, **Members:** Mr M Raghavaiah, Dr V Madhusudhana Rao, Dr P Venkateswarlu, Mr G Ranga Rao, Dr V Govardhana Rao, Dr J S Rao & Ms N Sudha Rani.

10.18 Haldia Regional Centre :

Chairman : Mr A P Gangopadhyay, **Vice-Chairman :** Dr R N Jana. **Honorary Regional Secretary,** Dr S B Kuila, **Honorary Regional Jt. Secretary :** Mr B MandaL, **Honorary Regional Treasurer :** Dr S J Sahu, **Members :** Mr D Kundu, Mr A K Dey, Prof A K Saha, Mr A Sinha, Prof R Das, Prof T K Manna, Dr S B Kuila, Dr R N Jana, Dr S J Sahu, Mr B Mandal, Mrs S Roy, Mrs K Rana, and Dr A Ghosh.

11.19 Hyderabad Regional Centre

Chairman : Dr Vijay Kale, **Vice-Chairman :** Prof R Sreedhar Rao & Mr M Ranga Rao, **Honorary Regional Secretary :** Mr M Misra, **Honorary Regional Jt Secretary :** Dr K Saravanan, **Honorary Regional Treasurer :** Mr C P Ramulu, **Members :** Mr E Venkatesham, Mr D M Reddy, Mr A L V Kumar Reddy, Mr M G V Chalapathi Rao, Mr Sunil Kumar, Mr V Sridharan, Prof Shashikala, Dr K Sainath & Mr K Ravichand.

11.20 Jaipur Regional Centre

Chairman : Mr S L Arora, **Vice-Chairman :** Mr V K Jain, **Honorary Regional Secretary :** Dr Madhu Agarwal, **Honorary Regional Jt Secretary :** Mr Sushant Upadhyaya, **Honorary Regional Treasurer :** Dr Rajeev Dohare, **Members :** Dr R K Vyas, Dr Pankaj Pandey, Dr A N Pathak, Dr D P Mishra, Dr Kailash Singh, Dr Prabhat Pandit.

11.21 Kharagpur Regional Centre

Chairman: Prof Sirshendu De, **Vice-Chairman :** Prof Sudarsan Neogi, **Honorary Regional Secretary :** Prof Arnab Atta, **Honorary Regional Jt Secretary :** Mr Soma Sekhar Goud S, **Honorary Regional Treasurer :** Prof Pavitra Sandilya, **Members :** Prof Dibyendu Mukherjee, Prof Debdulal Kar, Prof Gautam Kundu, Prof Sonali Sengupta, Prof Swati Neogi, Prof Venkat Padmanabhan.

11.22 Kanpur Regional Centre

Chairman : Dr S K Gupta, **Vice-Chairman :** Er Subhash Sharma, **Honorary Regional Secretary :** Er Ashutosh Mishra, **Honorary Regional Jt Secretary :** Er Vinay Sachan,

Honorary Regional Treasurer : Dr Santosh Kumar, **Members :** Dr R K Trivedi, Dr Pramod Kumar, Er Visesh Agarwal

11.23 Kochi Regional Centre

Chairman: Mr S Anujan, **Vice Chairman:** Mr P K Sureshkumar, **Honorary Regional Secretary:** Mr Harinath V, **Honorary Regional Jt Secretary:** Mr T P Siby, **Honorary Regional Treasurer:** Mr V Venkatesan, **Members:** Mr Sudarshan Kumar, Mr M K Augustine, Mr Subhashis Roy, Mr Tittu Alagu, Mr Hariprasad K R, Mr Rejith, Dr G Madhu, Mr R Laxman and Mr Manoj N.

11.24 Kalpakkam Regional Centre

Not received

11.25 Lote-Parasuram Regional Centre

Chairman : Mr S S Patil, **Vice-Chairman:** Mr D C Patil, **Honorary Regional Secretary :** Mr R B Ghadage, **Honorary Regional Treasurer :** Mr Rajesh Manatkar, **Members:** Mr S K Gandhi, Mr T D Desai, Mr S D Parthe, Mr R B Shinde, Mr Odol Krishnan, Mr V V Dhage, Mr P B Patil & Mr V V Dhotre.

11.26 Lucknow Regional Centre

Chairman : Mr Prakash Narain Tandon, **Vice-Chairman :** Mr Rajata Mehra, **Honorary Regional Secretary :** Dr Dhananjay Singh, **Honorary Regional Treasurer :** Mr Ranvir Singh, **Honorary Regional Jt Secretary :** Mr D K Srivastava, **Members :** Dr Bhartendu Nath Misra, Mr Brijendra Kumar, Dr Sushil Kumar, Dr Gautam Narain Garg, Mr Mayur Tandon, Mr Manoj Kumar Chaurasia, Mr Sudeep Tandon, Mr Janki Prasad Chaturvedi.

11.27 Mumbai Regional Centre

Chairman : Prof Alpana Mahapatra, **Vice-Chairman :** Dr D Mandal, **Honorary Regional Secretary :** Dr T L Prasad, **Honorary Regional Jt Secretary :** Prof Aparna Tamaskar, **Honorary Regional Treasurer :** Mr V Y Sane, **Immediate Past Chairman :** Prof Sunil S Bhagwat, **Past Chairman :** Prof V K Srivastava & Mr Praveen Saxena, **Immediate Past Secretary :** Prof Anita Kumari, **Members :** Mr Shreedhar Chitanvis, Mr K Sahasranaman, Mr R K Ravindra Joshi, Mr Pratik G B **Co-opted members :** Dr Sanjiv Katti and Dr Sanjay Mahajani.

11.28 Mangalore Regional Centre :

Chairman : Dr D V R Murthy, **Vice-Chairman :** Mr Venkatesh Sharma, **Honorary Regional Secretary :** Dr Keyur Raval, **Honorary Regional Jt Secretary :** Mr I M Sadanand, **Honorary Regional Treasurer:** Prof S Sivasankaran.

11.29 Northern Regional Centre :

Chairman : Prof S S Sambhi, **Vice-Chairman :** Prof Anil Kumar Saroha, **Honorary Regional Secretary :** Mr Abhijit Bikas Pal,

Honorary Regional Jt.Secretary : Dr Sachchida Nand,
Honorary Regional Treasurer : Dr Anil Verma, **Members** :
 Prof S Basu, Dr S N Chakravarty, Mr Shyam Bang, Mr D D
 Maheshwari, Prof V K Srivastava, Mr Umesh Goel, Prof K K
 Pant.

11.30 Nagpur Regional Centre:

Chairman : Dr G K Ghosal, **Vice-Chairman** : Prof V S Sapkal,
Honorary Regional Secretary : Dr A N Vaidya, **Honorary
 Regional Jt.Secretary** : Dr Y C Bhattacharyulu, **Honorary
 Regional Treasurer** : Dr R B Biniwale, **Members** : Dr T
 Chakrabarti, Dr S D Dawande, Dr S Mandavgane, Dr S K
 Goyal, Dr K L Wasewar, Dr B Bag, Dr J S Mohite, Dr Vijay
 Kumar.

11.31 Nadiad Regional Centre

Not received

11.32 Pilani Regional Centre:

Chairman : Dr Pratik N Sheth, **Vice-Chairman** : Dr Suresh
 Gupta, **Honorary Regional Secretary**: Mr Amit Jain,
Honorary Regional Jt Secretary : Mr Utkarsh Maheshwari,
Honorary Regional Treasurer: Dr Pradipta Chattopadhyay,
Members : Dr Hare Krishna Mohanta, Dr Arvind Kumar
 Sharma, Dr Smita Raghuvanshi, Dr Banasri Roy, Dr Sonal
 Mazumder, Dr Raman Sharma, Dr Ajaya K Pani, Mr Subhajit
 Majumder & Ms Priya C Sande.

11.33 Pune Regional Centre

Not received

11.34 Pondicherry Regional Centre

Not received

11.35 Rourkela Regional Centre

Chairman : Mr F C Sahoo, **Vice-Chairman**: Prof B C Ray,
Honorary Regional Secretary : Dr Hara Mohan Jena,
Honorary Regional Treasurer : Dr Santanu Paria, **Members**:
 Mr Siddharth Acharya, Mr K P Mishra, Dr (Mrs) G Sunanda,
 Mr S C Padhi & Dr Manoj K Mishra **Ex-officio Member** : Dr
 Pradip Chowdhury, Dr Sujit Sen.

11.36 Trivandrum Regional Centre

Not received

11.37 Vapi Regional Centre:

Chairman : Mr Has Mukh K Doshi, **Vice-Chairman** : Mr
 Rameshchandra N Prajapati, **Honorary Regional Secretary**
 : Dr Hiten M Bhatt, **Honorary Regional Jt Secretary** : Dr
 Uday R Marballi, **Honorary Regional Treasurer** : Mr Maulik
 J Desai, **Members** : Mr J R Shah, Dr H M Hirpara, Mr S S
 Pokale, Mr U M Rao, Mr Vinod S Kashalikar, Mr Mukesh S
 Patel **Ex-officio** : Mr Jagdish U Parmar.

B. Regional Centre Activities not related to R&D

Name of Regional Centres	Activities
Ankleshwar	a) Industry Visit : a) To the plant of Atul Aeromatics, Ankleshwar on 18.12.2015. b) To the plant of Godrej Industries Ltd, Valia on 19.02.2016.
Bangalore	Student Chapter Activities: 1. A new Student Chapter under Bangalore Regional Centre was inaugurated at the KLE Society's College of Engineering and Technology, Belgaum on 03.11.2015.
Bhubaneswar	Industry Visit: To Essar Steel Iron and Pellet Plant in Paradeep on 19.12.2015.
Calcutta	a) Birth Anniversary Celebration: The 127 th birth anniversary of Dr H L Roy, the founder President of IChE, was celebrated on 02.11.2015 at the IChE HQ Auditorium, Kolkata. b) Plant Visit : To Matix Fertilisers & Chemicals, Panagarh Industrial Park, Panagarh, Burdwan on 12.09.2015. c) Get-together Members and their families gathered at 'Saha Villa', Sarisa on 17.01.2016. d) Student Chapter activities : 1) CHEMATHLON-2016, a multi-event affair, was organized by Students Chapter of Jadavpur University in March 2016.

	<p>2) A new chapter under Calcutta Regional Centre was inaugurated at Calcutta Institute of Technology (CIT), Uluberia on 26.09.2015. On the occasion, a half day Technical Session on 'Plant & Laboratory Safety' was organized.</p> <p>3) CIT Uluberia held TECHMAKE – 2016 (Creative Model Presentation) on 27.02.2016.</p>
Chennai	<p>Special Day Celebration:</p> <p>1) Engineer's Day was celebrated by Department of Chemical Engineering, A C Tech, Anna University on 17.10.2015.</p>
Coimbatore	<p>Plant Visit :</p> <p>To ITC Paper Board Section, Karamandal on 19.03.2016.</p>
Doaba	<p>Student Chapter:</p> <p>1) BCET Gurdaspur Student Chapter was inaugurated under Doaba Regional Centre.</p>
Damanjodi	<p>Get-together:</p> <p>1) Gathering of members on 11.10.2015, 15.12.15 and 30.03.2016</p> <p>Students Chapter .:</p> <p>Seminar</p> <p>1. On 'Environmental Pollution and Protection Issues and Challenges' on 06.11.2015 by Gandhi Institute of Engineering and Technology (GIET), Gunpur.</p> <p>2. 'ALKEMY-2K15' was organized by GIET in November 2015. Industry- Institute interaction was also arranged during this period.</p>
Guntur	<p>a) Students' Convention:</p> <p>On 'Assessment of the State-of-the-Art in Chemical Engineering Science' on 22.02.2016.</p> <p>b) Donation :</p> <p>Department of Chemical Engineering, RVR&JC College of Engineering, Guntur donated Rs.100,000/- (Rupees one Lakh only) to the Guntur RC to institute an Endowment Lecture in the name of Prof M Venkateswara Rao.</p> <p>c) Students Chapter :</p> <p>1) A seminar on 'Application of Computational Techniques in Chemical Engineering' was organized by RVRJCCE Student Chapter on 6,7 November 2015.</p> <p>2) A seminar on 'Novel Separation Technologies' was organized by RGUKT NUZ Student Chapter on 25.01.2016</p> <p>3) On 'Need of Chemical Engineering Education and Growth of Chemical Industry in the near future' was organized by Bapatla Engineering College during February 2016.</p> <p>d) Plant Visit :</p> <p>1) To KCP Limited (Cement Division and Sugar Division, respectively) as organized by Student Chapter of RVRJCCE under Guntur Regional Centre on 30.07.2015 and 30.12.2015.</p> <p>2) To Satish Dhawan Space Centre (SHAR) as organized by Students Chapter of RVRJCCE on 22.02.2016.</p> <p>3) To JOCIL Ltd.,Dokiparru as organized by Student Chapter of RVRJCCE on 27.02.2016.</p>
Haldia	<p>a) Student's Chapter Activity :</p> <p>1) Quiz Contest:</p> <p>The programme was organized for the students of Chemical Engineering at Haldia Institute of Technology on 13.08.2015.</p>

	<p>b) Plant Visits: 1) A trip was organized to Indian Oil Corporation Ltd., Haldia on 03.11.2015.</p> <p>c) Publication: 1) A Wall Magazine 'EXCESS ENTROPY' was published on 09.11.2015 on the topic 'Women Empowerment'.</p>
Hyderabad	<p>a) Student Chapter Activities: Symposium : 'RASAYANIKA-2K15' was organized by CVSR – Anurag Group of Institute. On the occasion, a seminar on 'Application of Chemical Engineering in Alternate Sources of Energy' was organized as part of the event on 08 and 09.10. 2015.</p>
Jaipur	<p>Industrial Visit: A trip to Bharat Potteries Ltd. on 07.11.2015 organized for students of Chemical Engineering department, MNIT, Jaipur.</p>
Kochi	<p>a) Quiz Competition: Inter-collegiate quiz competition, 'TATVA', on 13.10.2015.</p>
Lote-Parasuram	<p>Get-together : Gathering of members and their families was organised in July 2015, December 2015. and January 2016.</p>
Mumbai	<p>a) Exhibition : CHEMTECH 2015 during 28 – 31.01.2015.</p> <p>b) Networking- cum- Picnic : To Malshej Ghat, Junnar, Pune on 23.08.2015.</p> <p>c) Student Chapter Activities: 1) Chemergence 2015 was organized by Students' Chapter of Thadomal Shahani Engineering College on 01 and 02.10.2015. 2) OYCE BCB - THYSKRP 2016: A national level competition was organized by MRC in association with Dept. of Chemical Engineering, Datta Meghe College of Engineering, Airoli on 26 and 27.02.2016. 3) ChEQ 2016: The Late Prof. N R Kamath Memorial Engineering Quiz (CHEQ 2016) was organized on 12.03.2016 with participation by seven teams, representing different colleges and institutes in Mumbai and Navi Mumbai.</p>
Mangalore	<p>Quiz: Dr P K Karanth Memorial Quiz competition was organized on 31.10.2015</p>
Northern	<p>a) Plant Visit : To National Fertilizers Ltd, Panipat, Haryana on 27.02.2016</p> <p>b) Get-togethers : Two gatherings were organized on 04.09.2015 and 16.01.2016.</p> <p>c) Student Chapter Activities : Student Chapter in Delhi Technological University organized the following programmes: 1) Quiz Competition : On 'Geek Roadies', a Task-based Quiz' on 28.10.2015. 2) Workshop: On 'Case Study and Problem Solving' on 28.10.2015.</p>

	<p>3) Group Discussion: On 'Battle of Words' on 29.10.2015</p> <p>4) Seminar : On 'Learning with the Leaders' on 12.12.2015.& 16.01.2016</p> <p>5) Industrial Visit : To E-Pack Polymers, Greater Noida on 30.01.2016</p> <p>6) TATVA'16 On 'Hit your Treat' on 19 and 20.02.2016.</p> <p>7) Students Chapter at Deenbandhu Chhotu Ram University of Science and Technology organised: i) Puzzle Quiz on 19.11.2015.</p>
Nadiad	<p>Industry Visits :</p> <p>1) To Hunts Man Private Ltd., Baroda and Transpack Silox, Baroda on 09.02.2016</p> <p>2) To GACL, Baroda and DNL, Nandesari on 23.02.2016.</p>
Nagpur	<p>Student Chapter Activities:</p> <p>1) A new Student Chapter was inaugurated at Priyadarshini Institute of Engineering and Technology, Nagpur.</p>
Pune	<p>Student Chapter Activities:</p> <p>Various Students' Chapters under Pune Regional Centre organized activities like courses, workshops, conferences, project exhibitions competitions and guest lectures.</p>
Trivandrum	<p>Student Chapter Activities :</p> <p>1) The annual CGG Panicker Gold Medal and Mr Kurup Gold Medal Presentation function was organized on 27.02.2016.</p> <p>2) One day seminar on 'Novel Technologies for Sustainable Development' was organized by Student Chapter of Mohandas College of Engineering</p>
Vapi	<p>Industrial Visit :</p> <p>To chemical factory of Tristar Intermediates Pvt Ltd., Sarigam on 11.07.2015.</p>

Executive Committee list for 2016-17.

Ahmedabad Regional Centre

Not Received

Ankleshwar Regional Centre

Chairman :Mr D M Gandhi, **Vice Chairmen:** Mr S I Thakar, Mr Manoj Kamalia, Mr Himanshu Gondalia, Mr A K Jain & Mr A K Jain, **Honorary Regional Secretary :** Mr N B Saraiya, **Honorary Regional Ex Secretary:** Mr Snehal Tralsawala, **Honorary Regional Treasurer:** Mr P B Shah, **Honorary Regional Jt Secretary-Jhagadia:** Mr Sunil Motiramani, **Honorary Regional Jt Secretary-Dahej:** Shantanu Das, **Honorary Regional Jt Secretary-Ankleshwar:** Mr KH Pandit, **Honorary Regional Jt Secretary-Bharuch:** Mr R R Khandpur, **Honorary Regional Jt Secretary-Panoli:** Satyan Pandya, **Members:** Mr Nitin Patel, Mr A K Sahni, Mr B D Dalwadi, P G Dave, Prof S J Wagh, Mr A I Shaikh, Mr Rajesh Kumar, Mr M I Shamsi, Mr B J Patel, Mr R S Senjalia, Ganesh R Sharma, Mr Dinesh Patel, Shashi Shekhar, Anupam Kansal, Rilesh Mehta & Prof Dr Parimal A Parikh

Annamalai-Neyveli Regional Centre

Chairman: Prof V Vijayagopal, **Vice-Chairman:** Dr M Karuppaia, **Honorary Regional Secretary:** Dr P Nagarajan, **Honorary Regional Jt Secretary:** Dr V Saravanan, **Honorary Regional Treasurer:** Dr P Elavarasan, **Ex-Officio:** Prof R Saravanan, **Members:** Dr R Muthuvelayutham, Dr M Rajasimman, Dr C S Rathnasabapathy, Dr P Saravanan, Dr Subhagar, Dr S Ramesh, Dr S Rengadurai

Bangalore Regional Centre

Chairman: Prof Y J Rao, **Vice-Chairman:** Prof G A Shareef, **Honorary Regional Secretary:** Dr Brijesh, **Honorary Regional Jt Secretary:** Mr V Venkatesham, **Honorary Regional Treasurer:** Mr K A Badarinarayana, **Members:** Dr K S Rajanandam, Dr A B Halgeri, Mr K R Ananth, Mr P T Raghuram, Mr S Swaminathan, Mr G Kishore Kumar

Baroda Regional Centre

Chairman : Mr D Chakraborty, **Vice-Chairman:** Mr Nilesh Mangukia, Mr R K Desai, **Honorary Regional Secretary:** Mr Nikhil Tonapi, **Honorary Regional Jt Secretary:** Mr Vipul

Kumar, **Honorary Regional Treasurer:** Prof N M Surana, **Members:** Mr Hitesh Shah, Mr Subhajit Sarkar, Dr Nitin Bhate, Mr Brijesh Trivedi, Mr Manish Shah, Nikunj Parekh, Mr Pritesh Chauhan, Manan Joshi, Mr Pradhyumana Rana, Mr Mitesh Mehta, Mehul Patel & Mr Prashant Daggolu

Bhubaneshwar Regional Centre :

Chairman: Mr J Rath, **Vice-Chairman:** Dr P C Rath, **Honorary Regional Secretary:** Mr S S Rath, **Honorary Regional Jt Secretary:** Dr Ranjita Swain, **Honorary Regional Treasurer:** Dr M K Ghosh, **Members:** Dr S K Tamotia, Prof G K Roy, Mr J N Mohanty, Dr Pratima Mishra & Dr C R Panda

Calcutta Regional Centre :

Chairman:: Prof Chiranjib Bhattacharjee, **Vice-Chairman:** Prof Swami Vedajnananda, **Honorary Regional Secretary:** Prof Amalesh Sirkar, **Honorary Regional Jt Secretary:** Prof Asit Mazumder, **Honorary Regional Treasurer:** Mr Abijit Kumar Mitra, **Members:** Prof Priyabrata Sarkar, Mr Sushanta Kr Roy, Mr Abhyuday Mallick, Prof B N Srimani, Prof N K Brahma, Mr Anjan Kr Bhattacharyya, Dr Rajat Chakraborty, Prof Sarajit Basu & Prof Amitava Bandyopadhyay.

Chandigarh Regional Centre :

Chairman: Prof S K Sharma, **Vice-Chairman:** Mr Sandeep Sharma, **Honorary Regional Secretary:** Prof V K Rattan, **Honorary Regional Jt Secretary:** Mr Deepak Mehon, **Honorary Regional Treasurer:** Prof R K Chhabra, **Members:** Mr Amit Sobti, Prof Amrit Pal Toor, Prof Anupama Sharma, Dr Gaurav Rattan, Prof Ritu Gupta, Prof Seema Kapoor, Ms Hema Setia & Mr Vivek Gupta

Coimbatore Regional Centre :

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Prof P De
Honorary Secretary