



July - August 2016

# ISHRAE NEWS

Linking ISHRAE Chapters Across India

Compiled and edited by Rakesh Kumar, Technical Editor, Air Conditioning and Refrigeration Journal

## Guidelines for Reports in eNews

It is heartening to see the number of reports submitted for publication in eNews going up exponentially. It reflects the rising competition among chapters to carry out activities in line with the Society's objectives, and shows increasing member engagement.

Here are some simple and useful guidelines for the reports to help eNews become a powerful catalyst of chapter activities:

- The deadline for receiving reports is the last day of the relevant period. For example, for publication in the September-October issue, the deadline is October 31.
- Please send or copy reports of events to [news@ishraehq.in](mailto:news@ishraehq.in)
- Please send a Word file containing a brief report of the event: **what, when, where, who** and any other relevant information. **Word file is preferable to pdf or ppt.**
- Relevant photos in jpg format should accompany the report. Each photo should have a **caption describing the occasion and giving the full names of persons** in the photo from left to right. Only first names or only last names are not enough. (In case of large group photos, e.g. a batch of 20 participants in a training programme, all names are neither feasible nor necessary. Key names would do in such cases.)
- In addition to the jpg files, photos may also be copy-pasted into the Word file at relevant places, with captions below each photo.
- While "a picture is worth a thousand words", **only pictures** do not constitute a report. A Word file describing the event must accompany the pictures.

ISHRAE Membership  
Toll-Free Number: 1800 3000 4245

## News in Brief

- Build Fair Alliance MOUs signed with FSAI and MFI
- aQuest quiz conducted at over 25 locations
- Over 5,000 students registered online
- 25 K-12 programs conducted on Independence Day
- Urjavarani launched in 15 cities
- ISHRAE Connect launched
- Searcho forges partnership with Navigant
- Nomination process initiated for next Society Year
- Record entries received for ISPG
- Industry Think-Tank meetings held with Automation and Refrigeration groups
- New office of Surat Chapter inaugurated
- National President and President-elect visit Chennai for IRC meeting
- ACREX app launched
- New ICP website launched
- Academia Training and Model Course Curriculum project announced by AAC
- AHU Standards Committee formed
- Building Simulation Standards Committee formed

## Bangalore Chapter in Overdrive

*Bangalore Chapter has maintained a hectic pace of activities during the current Society Year. During the period July-August 2016, it has conducted the following activities:*

### July 2016

1. Technical seminar on *Chiller Plant Manager*, speaker: Sreekesh M K, on July 1 at Whitefield, attended by more than 45 members.
2. Membership Night *Re-Unite*, on July 8 at KSCA Stadium, attended by more than 110 members.
3. Annual General Meeting of IBC on July 8 at KSCA Stadium, attended by more than 110 members.
4. *Heat Reflecting Roofing Tiles*, speaker: Mukandan M S, at Bangalore Chapter office on July 5, attended by 27 members.
5. *Laghu Udyog Bharti* – Zonal Conference of Southern states, on Credit Flow to Micro and Small Enterprises, at The Bell Hotel on July 7, attended by more than 250 people.
6. Technical seminar on *Ammonia Refrigeration*, speaker: Anish Simha, at Bangalore Chapter office on July 13, attended by 35 members.
7. ICP AC Design Level – 1: Module 1, attended by 30 people, on July 14-16, 22 and 23 at Bangalore Chapter office.
8. Project Management Practitioners' Conference (PMPC) 2016, on July 14-16, at NIMHANS Convention Centre, jointly with PMI, attended by more than 600 people.
9. Technical seminar on *Best Practices of HVAC Commissioning*, speaker: Rakesh Sahay, at The Chancery on July 29, attended by 96 members.
10. Technical Seminar for students: One-week Faculty Development Programme on *Advances in Mechanical Engineering* at Nagarjuna College of Engineering and Technology on July 25-30.

### August 2016

1. Technical seminar on *Thermo-acoustic Refrigeration System*, speaker: Dr. N Kapilan, on August 2 at Bangalore Chapter office, attended by 30 members.
2. Full day conference: *7th Annual Sustainability in Design & Construction India* on 2nd & 3rd of August 2016 at Sterlings MAC Hotel, Bangalore attended by more than 250 people.
3. *ISHRAE Premiere League (IPL) Cricket Tournament 2016* on August 6-7 at Loyala Cricket Ground; 20 teams participated.
4. *Carnival* for Bangalore Chapter members on August 7 at Loyala Cricket Ground, attended by more than 400 people.
5. *Global Rajasthan Agritech Meet* with FICCI on August 8 at Taj West End, attended by more than 500 people.
6. Technical seminar on *Different Types of Insulation*, speaker: Deepak S, on August 16 at Bangalore Chapter office, attended by more than 25 members.
7. ICP AC Design Level – 1: Module 2 on August 18-20 at Bangalore

Chapter office, attended by 27 people

8. ACREX Hall of Fame Road Show by Danfoss on August 19 at ITC Windsor Manor, attended by more than 120 people.
9. Technical seminar on *Basics of BMS for HVAC*, speaker: T Nagara-ja, on August 24 at Bangalore Chapter office, attended by more than 35 members.
10. Technical seminar on *Basics and Selection of Air Handling Unit*, speaker: R.K. Puri, on August 26 at The Chancery, attended by more than 70 members.
11. Full day conference: *IFSY India Fire & Security Yatra* on August 31 at The Ritz Carlton.
12. Student activities:
  - New Student Chapter, Global Academy of Technology, installed on August 27.
  - Technical seminar on *Introduction to Building Automation and Building Management System*, speaker: S Bhagavan, at Global Academy of Technology on August 27, attended by more than 200 students.
  - Technical seminar on *Basics of HVAC&R*, speaker: A Madhukar, at Global Academy of Technology on August 27, attended by more than 200 students.
  - Technical seminar on *Introduction to Cold Storage*, speaker: Anish Simha, at Global Academy of Technology on August 27, attended by more than 200 students.
  - Industrial visit to VSM Solar Pvt. Ltd., by Sai Vidya Institute of Technology on August 27, attended by more than 45 students.
13. K-12 Programs:
  - STEM Program for 8th Std. students of BBMP Boys High School, on August 3.
  - STEM Program for 8th Std. students of BBMP Girls High School, Murphy Town on August 3.
  - STEM Program for 8th Std. students of India Public School on August 4.
  - Flag hoisting and seminar on *Leadership Training* by Jagani Vasani on Independence Day, followed by sports meet at BBMP School, Domlur.
  - Flag hoisting along with painting competition on Independence Day at BBMP High School, Jogupalya.
  - Flag hoisting along with painting competition on Independence Day, followed by donation of computers to Siddhartha High School, Gopalpura.
  - Painting competition and donation of computers to Govt. Higher Primary School, Surigenahalli on August 15.
  - Supporting Hobli level Inter-High School Sports Competition on August 16 at C S Pura, Hobli.
  - Painting competition, metro ride and Vishveshwariah Museum visit for students of BBMP Boys & Girls Schools, Jogupalya and Murphy Town on August 20.

## ISHRAE CERTIFICATION PROGRAM

### ICP Cleanroom Level -1 Conducted at Mumbai

Mumbai Chapter conducted a Cleanroom Certification Program at the training hall in its office from July 13 to 16. Fifteen delegates attended.

V. Krishnan, Shankar Rajasekaran, Sasidharan Menon and Prashant Desai were the faculty members.



Shankar Rajasekaran takes a session

### Mumbai to Hold ICP-AC Design Level 1 During September-December

Mumbai Chapter is organising ICP-AC Design Level 1 for the first time in Mumbai, as per the following schedule:

Module	Dates	Topics	Instructor
Module 1	Sept. 27 to Oct. 1	Psychrometry and Heat Load	Vishwas Navare
Module 2	Nov. 17 to 19	Equipment and Duct Design	V. Krishnan
Module 3	Dec. 8 to 10	Insulation, Water and Refrigerant Piping	Sangita Jhangiani

## ACREX ROAD SHOWS

The ACREX team is leaving no stones unturned to make a grand success of the next year's event. Road shows have already been held at Delhi, Bangalore, Mumbai, Ahmedabad and Pune.

An ACREX road show was held at Istana Grand Ballroom, Hyatt Ahmedabad on July 8. It comprised of an Industry Meet

and Panel Discussion on *Smart Connected & Intelligent Buildings – The Foundation for Smart Cities*. It was powered by Air-flow, the Theme Partner for ACREX India 2017.

Another road show was conducted on August 23 at Le Meridian, Pune. It comprised of an Industry Meet powered by Voltas, the Knowledge Partner for ACREX India 2017.



## ADVOCACY

### ACREX 2017 Promotion in Indonesia

To encourage participation from Indonesia at ACREX India 2017, Akash Vajpai (ISHRAE) and Mansi Chawla (Nürnberg Messe) visited Jakarta from July 21 to 23. The agenda included an industry meet with relevant industry associations, and one-on-one meetings with the Chairs of these associations and various Government officials.



Akash Vajpai addresses the industry meet in Jakarta

One-on-one meetings were held with ASHRAE Indonesia Chapter, Ministry of Trade (Directorate of Promo-

tion and Branding), Ministry of Industry (Directorate of Electronic & ICT Industry), Cold Chain Association of Indonesia, the Indonesian Integrated Lamp Manufacturing Industry Association (GAMATRINDO), University of Indonesia (Faculty of Engineering), HVAC consulting company Pt. Airkon Pratama, and HVAC contracting company Barata Indonesia.

### Beijing Journal Publishes Article on Indian HVAC&R Industry

Journal of HV&AC, Beijing published an article on Indian HVAC&R Industry on a Growth Trajectory, authored by Rakesh Kumar, in the July issue of its HVAC Special.



### Guwahati Conducts Advocacy Meeting



Prof. P. Muthukumar addresses the gathering

An advocacy meeting was conducted by Guwahati Sub-chapter on July 22 at Hotel Kiranshree Portico. Prof. P. Muthukumar, President, briefed the audience on the objectives and salient features of ISHRAE and the benefits associated with its membership.

### Kolkata Makes Presentation to AIACRA

Kolkata Chapter availed an opportunity to talk about ISHRAE at the AGM of All India Air Conditioning & Refrigeration Association (AIACRA) on July

30. ACREX India 2017 was a supporting partner of the event. Amitabha Sur presented details of ISHRAE and ACREX 2017 in the presentation slot given by AIACRA.

### Vizag Holds Elocution Contest



A student taking part in the elocution contest

As a part of its advocacy efforts, Visakhapatnam Chapter organised an elocution contest for students of Mahathi College on August 11 on the eve of World Youth Day. Ten colleges deputed 18 students, and each student was given five minutes to express his/her views on their role in a smart city.

## PROGRAMS

### Goa Celebrates TechFest 2016

The 12th edition of TechFest was held at Bogmallo Beach Resort, Goa on August 26.



Kunal lights the lamp at TechFest, as (L to R) Makarand Kendre, PKSV Sagar, Divakar Sawant, Vishal Kapur, Donald Weekes and Prakash Naik look on

The inaugural speech was made by Prakash Naik, President, Goa Chapter and the keynote address was delivered by Kunal, IAS, Secretary (Power, Labour and Environment Services), Goa.

Donald Weekes (IPP, IAQA) spoke on IAQ in the Hospitality Sector. Nitin Deodhar and Barun Aggarwal were the other speakers.



Richie Mittal, Mahesh Prabhu, Donald Weekes, Stephanie Sears and Prakash Naik at the launch of IAQA chapter

The high point of the event was the launch of India Chapter of Indoor Air Quality Association of USA by Executive Director Stephanie Sears. An MoU was inked between IAQA and ISHRAE after the launch of India Chapter.

### Harit-Jal-Vaayu at Mumbai



Lighting the lamp at Harit-Jal-Vaayu

ISHRAE Mumbai Chapter, in association with Indian Plumbing Association (IPA) and CII- IGBC Mumbai Chapter organised its 3rd edition of Harit-Jal-Vaayu on August 27 at Hyatt Regency. It was a free seminar for all.

Some of the eminent speakers were Niranjan Hiranandani, CMD – Hiranandani Group of Companies; Ar. Yatin Pandya, Principal Architect – Footprints Earth; Sanjay Dahasahasra – Founder, Dahasahasra Waternet Solutions; Barun Aggarwal – CEO, Breatheeasy Consul-

tants Pvt. Ltd.; Sharat Rao, Chairman – IPA Mumbai Chapter; and Nandlal R. Singh, President – ISHRAE Mumbai Chapter.

The program was focused on best Green practices, sustainability, conservation of resources, built environment, energy and water efficient practices and new innovative technologies to improve indoor environmental quality. It was attended by over 250 delegates including architects, real estate developers and builders, MEP consultants, corporate decision makers, Green product manufacturers and educational institutions.

### Basics of Refrigeration at Mumbai



Vikram Murthy addresses the audience

Mumbai Chapter held a one day learning session on Basics of Refrigeration on July 22 at its training room. Vikram Murthy (Director, Univac Environment Systems) was the faculty. There were about 32 participants.

### Mumbai Program on Design of Sprinkler Systems

ISHRAE MUMBAI CHAPTER, in association with ASHRAE Mumbai Chapter and FSAL, conducted the second one day learning session on Design of Sprinkler Systems for Engineers on July 30.



Program on sprinkler systems in progress

The program was conducted at ISHRAE Mumbai Chapter office and was attended by 36 delegates.

### Kolkata Holds DL Program on Commercial Kitchen Ventilation



Dipak Barma shares his knowledge

Kolkata Chapter conducted a DL Program titled Commercial Kitchen Ventilation on June 4 at ISHRAE office. Past National President and Distinguished Lecturer Dipak Barma shared his experience and knowledge on the subject. The program was attended by around 20 professionals.

### DL Program on Cleanrooms in Kolkata



Subhasish Dasgupta talks about clean rooms

Kolkata Chapter conducted a DL Program on Cleanrooms on May 21 at ISHRAE office. Senior ISHRAE member and Distinguished Lecturer Subhasish Dasgupta shared his experience and knowledge on the subject. The program was attended by 22 industry professionals including ISHRAE members.

### Technical Talk on Refrigeration by Kolkata Chapter



Utpal Biswas introduces the speakers

Kolkata Chapter conducted a Technical Talk program on Refrigeration on June 3 at Circle Club. Arpan Mazumdar (Executive Engineer, West Bengal Agricultural Marketing Department) and Dr. Amitabha Bhattacharya (refrigeration consultant) were the Chief Guest and Guest of Honour respectively. Utpal Biswas (President, Kolkata Chapter) presided over the program.

Supriya Saha (cold storage consultant) explained the latest trends in the cold storage and food processing industry. A.S. Chowdhury (Chair – Refrigeration Committee) made a presentation on types of insulation and their utility in various types of refrigeration applications. The program was attended by more than 35 professionals.

### DL Program on Energy Efficient System in Kolkata

Kolkata Chapter conducted a DL Program on Selection of Energy Efficient Air Conditioning System on June 25 at



Manoj Chakravorti shares his knowledge

ISHRAE Office. President Emeritus of the Chapter and Distinguished Lecturer Manoj Chakravorti shared his experience and knowledge during the program.

### Technical Workshop at Vadodara

Vadodara Chapter arranged a DL Program by Vikram Murthy – a full day technical workshop – on July 16 at GETRI. Around 45 members attended the program.

### Product Presentation at Indore

A product presentation was made by ATE group (HMX) on August 27 at Indore. The topic was Sustainable Cooling Solution, and the venue was Sayaji Hotel. The speakers were Prashant Bhaware – Deputy General Manager, and Arnab Sarkar – Manager, Business Development.

### Product Presentation by Emerson at Guwahati

On July 22, Emerson Climate Technologies, along with Guwahati Sub-Chapter, organized a product presentation titled Next Generation HVACR Technologies and Solutions, at Hotel Kiranshree Portico. The audience comprised researchers, industrialists and marketing professionals.



B.B. Kale makes his presentation

B. B. Kale, General Manager, Product & Marketing, made the presentation on solutions for various requirements, especially for the cold chain. Sandip Srikanti, Deputy Manager, Cold Chain Marketing, described the advantages of scroll compressors.

### Cold Room Basics at Chennai

A program on Cold Room Basics, Head Load Calculations and Best Installation Practices was organised on July 9 at ISHRAE Chennai classroom. The speaker was S. Vijayabaskaran. It was attended by 48 participants (members, non-members and student members).



### Chennai Holds Program on Green Initiatives for Smart Buildings

Chennai Chapter organised a program on *Green Initiatives for Smart Buildings* on July 16 at Hotel My Fortune. The faculty comprised Vineeta Badawe, Murali, Dr. Amardheep M. Dugar, Juzer S. Kotahri, Ferno Susai, Sekar Ram, Sudalaiandi and Rajesh. About 50 delegates attended.

### Insulation Awareness at Chennai

There were about 60 participants in the awareness program on *Insulation Enhancement* at Chennai on July 30, conducted by Isaac Emmanuel.

### Chennai Conducts Program on Good Installation Practices

Chennai Chapter organised a program on *Good Installation Practices*, covering split, ductable, VRF and VAV systems, on August 20. Raja Sriraam was the speaker. It was attended by 42 participants.

### Thane Chapter Holds Tech-Talk

Thane Chapter organised a Tech-Talk program on July 8 on *Variable Speed Pumping System*. The speaker was Uday Anant Sapre, Assistant Manager, Sales (CBS) - Grundfos Pumps.

## K-12 ACTIVITIES

### Trivandrum Sub-chapter



Tree plantation at Trivandrum

A program on *Environmental Awareness and Tree Plantation* was carried out at Vocational Higher Secondary School, Vattiyookavu, Trivandrum. K-12 Chair D. Vijayakumar and Ajayakumar Ghosh V, President, Trivandrum Sub-chapter participated. The speaker was Jagadeesha Chandran, Senior Scientist, LPSC, ISRO. Around 175 students participated. Tree planting was done after the speech.

### Chennai Chapter

- D. Balaji addressed students of Govt. HS School, Pallavapuram on July 22. About 100 students attended.
- Flag hoisting was carried out on August 15 at Govt. HS School, Pallavapuram. About 90 students attended.
- Krishnasamy and Vijayabaskaran addressed 100 students of Govt. HS School, Pallavapuram on August 19.

### Kolkata Chapter

- Plantation of saplings and a Quiz was held on August 3 at Garden High School. Over 350 students participated. Candy bags, books, ISHRAE leaflets and saplings were distributed. Rajashri Biswas, Principal, distributed books to the winners of the Quiz.



President Utpal Biswas planting saplings with the students

- Independence Day was celebrated at OFFER Orphanage. OFFER has been serving severely underprivileged children in Kolkata and semi-urban areas of West Bengal, providing institutional specialized healthcare, education and psychosocial support to children with HIV/AIDS and men-



Flag hoisting at OFFER



A cheque being donated to the orphanage



Cultural programme at OFFER

tally challenged children. OFFER today serves nearly 5,000 children on a regular basis.

- The Chapter participated in Ratha Yatra and Eid Celebration at Premashraya on July 6.



President Utpal Biswas and other ISHRAE members at Premashraya

Premashraya is a home away from home for cancer patients, designed to house 500 patients undergoing treatment at the Tata Medical Centre, Kolkata.

### Visakhapatnam Chapter

- Vizag Chapter conducted a K-12 programme on July 28 Govt. High school, Malkapuram. The Chapter got 17 black boards in the school painted, and donated 100 books to poor children.



Chaitanya Varma addresses the students

Chaitanya Varma, safety consultant, made a video presentation on hygiene and safety rules including disaster management, and about students' role in the society.

- Vizag Chapter participated in Independence Day celebrations at Mandal Parishad Upper Primary School at Mudapaka village, Pendurthy, with flag hoisting. Sports kits, sweets and soft drinks were gifted to children, and dustbins were donated for the classrooms.



Flag hoisting at Mandal Parishad School

### Kolhapur Sangli Sub-chapter

- The Sub-chapter carried out a K-12 activity in New English School, Kurwad on August 19, attended by 60 students of 10th Standard. It was a presentation on *Basics of Refrigeration and its Application*.
- Another K-12 activity was conducted in Panchashil High School, Shahapur, Ichalkaranji on August 16, attended by 70 students of 9th and 10th Standard. It was a presentation on *Renewable Energy Sources and*

*their Applications*.

- A presentation on *Types of Power Plants* was made at Shree Bhairavnath Educational Campus, Ichalkaranji on August 16, attended by 60 students of 8th Standard.
- The Sub-chapter carried out a K-12 activity at Madhyamik Ashram Shala, Jaysingpur on August 16, attended by 75 students of 9th Standard. It was a presentation on *Renewable Energy Sources and their Applications*.

### Kochi Chapter

A K-12 program was conducted at Smrithi – School for Children With Special Needs – on July 1. A painting competition was conducted for 40 students in 3 groups. Snacks and gifts were arranged for the students. On July 2, an interaction program was conducted at the School with the Mayor Soumini Jain. Prizes were distributed by the Mayor. The Chapter donated a storage cabinet for the school.

### Ahmedabad Chapter

- STEM theme experiments were carried out at Kishor Vidhyalay (C N Vidhyalay), Ambawadi on July 23. Sejal Patel (K-12 Chair) and Mosmi Amit Mehta (co-opted member) demonstrated experiments on STEM theme to students of 6th to 8th Standard.



Sejal Patel and Mosmi Amit Mehta conduct STEM experiments

- The Chapter carried out another K-12 activity at Sai Baba Centre run by Vidhya Bharti Foundation, Satellite on August 13. Sejal Patel demonstrated experiments on STEM theme. 25 students of the organization participated. Some students performed a cultural program. They were gifted pencil boxes.



STEM experiments being conducted



Students perform cultural activity

### Meerut Sub-chapter

- World Environment Day was celebrated by Meerut Sub-chapter at Pallavpuram Park. More than 70 students from class

VI to XI participated in a poster making competition, with messages on *Save the Environment, Save Water, Save Energy, and Save and Grow Trees*.

- Meerut Sub-chapter held a K-12 program on August 8 at Pallavpuram Public Park on the theme *Hariyali Badhao – Paryavaran Bachao*. Apart from Sub-chapter members, nearly 60 students from different schools, guardians and local residents participated. Dr. Ravindra Sangwan, Senior Scientist, Sardar Vallabhbhai Patel University of Agriculture & Technology and R.K. Mehta – Retired Principal, Government Inter College were the special invitees. V.C. Rajpal (President) introduced the Society and its activities. All participants in the poster competition held on the eve of World Environment Day on June 5 were given certificates; trophies were awarded to the top 10 entries.

### Goa Chapter

On Independence Day, Goa Chapter organized an inter village speech competition for primary level school children at Parse High School. Twenty students from 7 primary schools participated.



Prizes being awarded to students

The inaugural speech by Headmaster Shripad Naik was followed by Chapter President Prakash Naik's lecture, in which he briefed the audience about ISHRAE activities and the importance of the national anthem, national flag and national emblem. Student Chair Milind Sardesai spoke on nature protection and plant growing.

Rashi Holkar stood first in the competition, Aryan Chandroji was second and Manthan Parsekar got the third prize. Participation certificates and plant saplings were given to all participants and their schools.

### Ranchi Chapter

A speech and singing competition was held at S. S. Balika Uchch Vidyalaya, Doranda, Ranchi on the occasion of 70th Independence Day. Around 350 students from Class 7 to 12 participated.



Flag hoisting at the school

The program started with hoisting of the national flag and national anthem. The event was conducted by S.N. Bhagat, K-12 Chair. Prizes were awarded to top three students in each event, and consolation prizes were given to the participants. B.K. Bisoyi, K-12 Zonal Chair, explained the goals of ISHRAE.

The prize distribution ceremony was presided over by Principal Meena and S. Ganesh, Chapter President-elect.



## STUDENT ACTIVITIES

### Jaipur Chapter

- The 8th Sustainable Energy & Environment Quiz (SEEQ 16) was organized by Energy Club under the aegis of Centre for Energy & Environment on August 20-21 at MNIT Jaipur. The event was sponsored by ISHRAE and supported by ASHRAE. A total of 277 teams from 13 colleges across India participated in the Quiz.
- On August 27, Department of Mechanical Engineering of Poornima College of Engineering, Jaipur organized a seminar on *Applications of Wind Energy* in association with ISHRAE, along with the installation ceremony of its Student Chapter. The occasion witnessed the presence of Pramod Dubey, Director, Vikalp Facility Management Services, and Akash Vajpai, Treasurer, Jaipur Chapter, along with faculty members.



Pramod Dubey talks on Applications of Wind Energy

Dr. Om Prakash Sharma, in his opening remarks, highlighted the importance of Wind Energy. Akash Vajpai installed the Poornima Student Chapter. More than 200 students attended the seminar.

### Ahmedabad Chapter

- Revival of Gandhinagar Institute of Technology (GIT) Student Chapter was organized at the Institute on August 23. Past President D M Shah was the installing officer. A motivational lecture was delivered by Deepak Pandya (a senior member of Ahmedabad Chapter) on *Accept the Challenge* to more than 130 students.



D. M. Shah installs the student CWC

- Ruchir Parikh (Faculty Coordinator) and Dr. N M Bhatt (Director) from GIT helped to organize the programme. Sanjay Adhvaryu (President), Prof. Hardik Shukla (Student Chair) and Rajendra Mevada (Secretariat) from Ahmedabad Chapter facilitated the event.
- Aakash Patel conducted an awareness program for students of Ahmedabad Institute of Technology (A.I.T) College, Gota Chokdi Ognaj Road, Taluka Daskoi on August 3. It was an introduction cum informative lecture about ISHRAE. Pina Chaudhari (Faculty Coordinator) helped to organise the program, and Sanjay Adhvaryu (President), Prof. Hardik Shukla (Chair, Student Activity) and Rajendra Mevada (Secretariat) from Ahmedabad Chapter helped to conduct the event. More than 200 students attended.
- Dilip Gajjar gave an introduction cum informative lecture about ISHRAE and various benefits to student members at ITI Gandhinagar on August 11. About 45 students attended.
- Dilip Gajjar (Program Chair) gave an



Dilip Gajjar delivers his lecture

informative lecture on *Types of HVAC Systems* to students of Shankersinh Vaghela Bapu Institute of Technology, Gandhinagar on August 11.

Khalid Siddiqui (Faculty Coordinator) and Naresh Chauhan (HoD-Mechanical) and Pina Bhatt (Principal) helped from the Institute. D M Shah, Sanjay Adhvaryu, Prof. Hardik Shukla and Rajendra Mevada from Ahmedabad Chapter organised the activity. More than 75 students attended the lecture.

- Sanjay Adhvaryu delivered a lecture on *HVAC for Pharmaceutical Industry* at Pandit Deendayal Petroleum University (PDPU) on August 11.



Sanjay Adhvaryu delivers his lecture

Jatin Patel (Faculty Coordinator) and Surendra Singh Kachwaha (HoD-Mechanical) from the University helped to organise the lecture. D M Shah, Sanjay Adhvaryu, Prof. Hardik Shukla and Rajendra Mevada organised the activity. More than 125 students attended the lecture.



PDPU students through the hall

- Ahmedabad Chapter arranged an industrial site visit for BE students of Ahmedabad Institute of Technology (A.I.T) to Prasad Group of Companies on August 13.



A.I.T. students at Prasad Machinery Pvt. Ltd.

Dwijen Dalwadi (HR Department) and Ilesh Patel (DGM-HR) from Prasad Group helped to organise the visit. D M Shah, Sanjay Adhvaryu, Prof. Hardik Shukla and Rajendra Mevada from Ahmedabad Chapter organised the event. About 10 students along with one faculty member attended.

- Ahmedabad Chapter arranged an industrial site visit for Gandhinagar Institute of Technology (G.I.T) Students to Prasad Group of Companies on August 13.



G.I.T. students at Prasad Machinery Pvt. Ltd.

Dwijen Dalwadi (HR Department) and Ilesh Patel (DGM-HR) from Prasad Group helped to organise the visit. D M Shah, Sanjay Adhvaryu, Prof. Hardik Shukla and Rajendra Mevada from Ahmedabad Chapter organised the event. About 30 students along with Ruchir Parikh (Faculty Coordinator) attended.

- Ahmedabad Chapter arranged an industrial site visit for BE students of L D College of Engineering (LDCE) to Ice Make Refrigeration Private Limited on August 13.

Hiren Limbachiya (Assistant Manager HR), Jayantibhai Gajjar (Service



LDCE students visit Ice Make Refrigeration

Department) and Chandrakant Patel (MD) from Ice Make Refrigeration facilitated the visit. D M Shah, Sanjay Adhvaryu, Prof. Hardik Shukla and Rajendra Mevada from Ahmedabad Chapter organised the event. About 40 students along with Prof. Hardik Shukla attended.

### Mumbai Chapter

- A motivational speech and career guidance for Job Junction was held on August 6 at Marathi Sahitya Sanskruti & Kala Mandal, Navi Mumbai. Ketan Gawand spoke on 'Motivate and Encourage Students'. This was followed by a brief on Job Junction by Rajendra N Joshi, Job Junction Chair, along with other Chapter members Nandal R. Singh, President, Diwakar J Sawant, RD1, Raveendra Shetty, IPP, Amod Dikshit, Program Chair, Mihir N Sanghavi, Secretary, Dharmesh Mehta, Membership Chair, Nasir Khan, Adovcacy Chair, Abhijit Kelekar and Sanjay Verma. The program was attended by about 500 students, HoD and Faculty Advisor along with Mumbai CWC members.



Nandlal Singh, Sanjay Verma and Diwakar Sawant light the lamp

- Installation of Fr. C Rodriuges Institute of Technology Student Chapter was held on August 6.
- Installation of Lokmanya Tilak College of Engineering Student Chapter was held on August 6.
- Installation ceremony of Student Chapter of SIES Graduate School of Technology was held on August 6.
- Installation of Student Chapter of Dr Babasaheb Ambedkar Technological University, Lonere was held at Marathi Sahitya Sanskruti and Kala Mandal, Navi Mumbai on August 6.
- Installation of Student Chapter of Saraswati College of Engineering, Kharghar was carried out on August 6. Sanjay Kumar Verma, Student Chair administered the oath.

### Guwahati Sub-chapter

- Guwahati conducted a student membership promotion event aimed at opening a new student chapter on August 11 at Assam Engineering College. Gurpreet Singh Sodhi, Student President, IIT Guwahati briefed the students about the benefits of becoming student members, and the role students can play in overcoming the various challenges in the HVAC&R field through ISHRAE and its activities.
- A student membership promotion event aimed at encouraging fresh students to become members was conducted on August 26 at IIT Guwahati. Around 40 students attended.
- Guwahati Sub-chapter organised an industrial visit to a water-cooled condenser based air conditioning plant on August 23 at IIT Guwahati, under the guidance of Prof. P. Muthukumar, President. About 62 graduate, post graduate and doctoral students from IIT Guwahati, members of Guwahati

Sub-chapter and IIT Guwahati Student Chapter participated.

- A technical talk on *Multi Pressure Refrigerant Systems* was conducted at IIT Guwahati on August 25. Sub-chapter President Prof. P. Muthukumar of IIT Guwahati delivered the talk.



Students listen to Prof. P. Muthukumar

- A technical talk on Basics of Refrigerants was conducted at the Department of Mechanical Engineering, IIT Guwahati on August 26. Prof. P. Muthukumar delivered the talk.

### Installation of Student Chapters at Indore

The annual student chapter installation of Indore took place at Trube College (SIRT Group) on August 26. The event was presided over by Guest of Honour Kanak Mal Kothari, ISHRAE Indore President and Professor, IET-DAVV Sharad Choudhary, Vice Chairman Dr. Prashant Jain, Deputy Director Institute of Engineering & Technology, Truba College (SIRT Group) Manish Choudhary, and Dean Faculty of Engineering and Head of Mechanical Engineering Dr. Suman Sharma. It was also attended by Sapan Shan (IPP, ISHRAE Indore). It was organised under the guidance of Dr. Sharad Chaudhary and Chair, Student Activity Prof. Ajeet Bargaley. Faculty advisors and student members of three student chapters were also present.

The highlight of the event was an hour long technical talk followed by a Q&A session on Project Management by Kanak Kothari, a well known name in this field.



Installation of student chapters at Indore

The chapters installed during the event were Truba College of Engineering, Medicaps College and IET-DAVV.

### Chennai Chapter

- A program on *Modern HVAC Technologies for a Green Planet* was held at Anna University on August 6, with V. Krishnan, Dr. Roshini Easow and Madhusudan as the faculty. It was attended by 400 participants comprising ISHRAE and ASHRAE student members.
- A Guest Lecture was delivered at Rajalakshmi Engineering College on July 27 by Ferno Susai, attended by 80 students.
- A program on *Refrigeration and Air-conditioning Basics and Latest Trends* was held on August 10 at Sree Sastha Institute of Engineering and Technology. The speaker was V. Sridhar. The program was attended by 52 students.
- A program titled *A Career in AC&R* was held on August 17 at Rajalakshmi Engineering College. The speakers were Mansoor and Raja. It was attended by 80 students.
- A program on *Indoor Air Quality* was organised on August 17 at Hindustan University, attended by 45 students. The speaker was Ferno Susai.
- A program on *Trends in HVAC and Opportunities Ahead* was held on August 23 at Easwari Engineering College, addressed by Krishna Prasad, with 80 students attending.