



May-June 2017

# ISHRAE NEWS

Linking ISHRAE Chapters Across India

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



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## Updates from Quarter -1, 2017-18

Hello friends ! 3 months of the current society year have elapsed and I am happy to tell you that we have achieved a lot in this short span. Keeping the theme of the year in mind – ICE ( INSPIRE – CUSTOMIZE – ENERGIZE ) – we continue to travel on that road. More & more members are coming on board for various activities, our programs PAN-India basis are getting more focused & customized, and the Youth & women have surely energized the Society and all our Technical activities will energize the Industry. We had identified some key Objectives for the year and work has started on most of them. Our key focus area – TECHNICAL CONTENT – RESEARCH – EDUCATION & TRAINING – INDUSTRY & GOVT. ENGAGE have started showing results.

**WE CONTINUE TO SEEK MORE VOLUNTEERS FOR VARIOUS ACTIVITIES ESPECIALLY TECHNICAL – PLEASE COME FORWARD.**

- Vishal Kapur,  
National President

### KEY NEWS :

- ISHRAE President was officially invited to the CHINA REFRIGERATION SHOW 2017 in Shanghai. The ISHRAE delegation had meetings with the C.A.R Chairman and secretary general and various areas of co-operation were discussed. The MOU between the two societies was also renewed.
- NATIONAL BUILDING CODE 2016 got launched and ISHRAE was a proud member of the committee.
- ISHRAE program of : “Refresher course on RAC for Teachers” got recognition from

AICTE. Trained faculty got certificates signed by AICTE and ISHRAE.

- ISHRAE has been invited to be a member of the Asian Heat Pumps and thermal storage Network – AHPNW and will be taking part in various workshops

- ISHRAE is a partner in : “Sustainable and Smart Space Cooling Coalition” an initiative launched by “Alliance for an Energy Efficient Economy (AEEE)” and Shakti Sustainable Energy Foundation (SSEF).

- ISHRAE is a member of the technical

committee of the “Chillers labelling program” an initiative by BEE

- ISHRAE is part of a Mission Innovation workshop : a global initiative of 22 countries and the EU to accelerate clean energy innovation globally (<http://mission-innovation.net/>). MI have identified seven innovation challenges (IC) and we will be involved in :

- “Affordable heating and cooling of buildings called IC7”



For updates, download App:



### MEMBERSHIP

90 days = 930+ new members added and 500+ renewals.

### PROGRAMS

#### 90 DAYS = 200 PROGRAMS

Excellent range of topics and the way the programs have been promoted. Apart from this another 300 programs have already been planned for the balance year and punched into the calendar.



**Urjavarani:** the flagship conference program of ISHRAE @ 24 cities this year.

*Focus : Delegate profile*

**WEBINARS :** One of the best ways of serving our members and Industry. 3 programs have already happened and plan to have atleast 2 every month.



### STUDENT ACTIVITIES

- Research project Grants have been launched for UG and PG students.
- Activity on product showcase in multiple colleges has started
- National Student Design competition to be launched in July
- E-Newsletter for students launched

### TECHNICAL ACTIVITIES

The biggest focus area of this year and it has taken off very well.

**Knowledge Bank :** Test module has already been launched on the web site and the articles are being uploaded. Very soon you will be able to search through all our journal articles by typing a key word. The HVAC&R Glossary is also under upload stage and the case studies will be ready soon.

**Online Technical Forum** continues to pick pace and I request all of you to visit the forum and start using the same



**Application based guidebooks :** All topics and authors have been identified and work has started. Most books will be ready before end of the year

**New Books:** HVAC Data Book has been launched and ready for sale. Filter Fundamentals is under printing and Commissioning guide-book is in the final stage.



**Standards :** VRF Draft standard comments have been received and the team is going to finalize the standard very soon. Work on the AHU standard is under progress and will be delivered in the current year



**RESEARCH :** We are ready to officially launch “Research in ISHRAE” concept where we will seek to involve all our members, chapters and the Industry. The first research on “IEQ Standard implementation” is already under way at IIT Chennai and MNIT Jaipur.

The second research on “Modelling and validation of corrosion, fouling and scaling in heat exchangers and effect of prognostic maintenance” has been finalized. This will also be conducted by a premium institution of the country. Many more topics have been identified and will be launched soon

### TRAINING & EDUCATION

One of the main objectives of ISHRAE in the current year.



**ICP – ISHRAE Certified Professional** is gaining recognition year on year. Current year plans of the various courses are :

- **AC Design** @ 9 locations
- **AC Service** @ 18 locations
- **AC Draftsmen** @ 2 locations
- **Cleanroom** @ 1 location

**New courses :** Commissioning and AC Draftsmen – to be launched very soon.



**DIPLOMA COURSE :** Our 4 month Advanced Engineering Diploma course is now available in multiple locations :

- **Delhi:** Revamped course starting from August
- **Bangalore:** Second batch August
- **Chennai:** First batch starting soon
- **Bhubaneswar:** Franchisee model to be launched at CV Raman college

**DISTANCE LEARNING:** ICP & DIPLOMA COURSE – To be launched in July.

**SKILL DEVELOPMENT :** Course material including video is ready for the unitary products training : To be launched by September.

### ADVOCACY-ACADEMIA CONNECT

- “ISHRAE Trained Faculty” program in partnership with AICTE.
- Two programs already conducted in Pune & Bhubaneswar with total 60+ faculty members attending and certificate issued jointly signed by AICTE & ISHRAE.

- Model curriculum course for graduate engineers also handed over to AICTE – to be implemented in 2018.



### ADVOCACY- ASSOCIATE SOCIETIES

**REHVA (European Federation):** Joint technical project launched on : guidebook for “IEQ in high performance NZE schools”. Work started by joint task force from ISHRAE & REHVA.

**IAQA (Indoor Air Quality Association):** Book being developed jointly: “Guideline for Air Purifiers for Residential Application”.

**IGBC:** Developing the well being standard jointly.

**AHPNW:** ISHRAE has been invited to become a member of : “Asian Heat Pumps & Thermal Storage Technology Network”. Will take part in joint workshops.

**Regular article exchange** happening with IIR / CAR / REHVA.

**Joint Programs** with FSAI / ASHRAE / RATA / GBCI / IAEMP / IPA / ASSOCHAM etc.



### Already an inspiring story

- Success Stories already launched – one per month.
- Webinars
- Student e-newsletter launched
- ISHRAE Cricket league launched
- Technical blogs starting soon
- Leadership program planned
- Representation on various committees



### An excellent initiative and great service

- In a short span many women members have been inducted
- Technical programs being organized at various locations
- Women speakers coming forward



Our next edition of ACREX is in Bengaluru and the response as on date is excellent. The focus area is to get the perfect visitor profile to the show so that the exhibitors get full value.

**Please block your dates 22-24th Feb 2018**



500 plus leads generated for our premium listing and members of searchO, 25 paid members, 5000 companies listed, 10000 products listed. 600+ B2B enquires generated and shared with premium listed members Android mobile app launched in June.

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# 1<sup>ST</sup> NATIONAL BOG AT AHMEDABAD



Participants at the First National BoG at Ahmedabad

## ADVOCACY

### Guwahati Sub-chapter Conducts Advocacy Program

On May 6, Guwahati Sub-chapter organized an advocacy program at Viswaratna Hotel. Amarendra Goswami, Zonal Chair – Programs (East) and Advocacy Chair – Guwahati, made a presentation starting with a detailed overview of the aims, mission and operational principles of ISHRAE. He discussed the various challenges faced by HVAC&R industries in the North-Eastern region, and the opportunities to tackle these challenges presented by the Sub-chapter activities. Videos introducing ISHRAE and ACREX 2018 were played for the benefit of the audience. Representatives of various government and private firms were among the invited guests. The attendance registered during the meeting was nearly 60. Emerson Group supported the event.



Advocacy program at Guwahati to introduce ISHRAE

### Guwahati Collaborates with IIA

On June 10, Guwahati Sub-chapter, in collaboration with Indian Institute of Architects (IIA) Assam Chapter, organized an advocacy program at Hotel Palacio. Amarendra Goswami, made a presentation introducing ISHRAE. He focused on the need for ISHRAE and IIA to join hands for better building protocols and urged IIA members to be a part of ISHRAE. Videos about ISHRAE and ACREX 2018 were played for the benefit of the audience. Architects from IIA, HVAC&R professionals, and representatives of various government and private firms were among the audience. The attendance registered during this meeting was nearly 65. Kolkata Chapter, IIA and KD Group supported the program.



Amarendra Goswami makes a presentation

### Technical Talk on New Trends in IBMS at Bhopal

FSAI Bhopal Sub-chapter, in association with ISHRAE Indore Chapter, organized a Technical Talk on 'New Trends in IBMS' on May 31 at Vihar Hall of Hotel Palash Residency. About 50 participants were present.

The programme started with a welcome note by FSAI Bhopal Joint secretary Sajid Khan and ISHRAE Indore President-elect J. K. Vyas, who introduced the keynote speaker Pankaj Tiwari and mentioned that this was the first step by Indore Chapter towards establishing the Bhopal Sub-chapter.

Pankaj Tiwari, in his presentation, discussed the basics of IBMS, energy management programs through IBMS, the need for seamless integration of fire alarm, CCTV, access control and lighting control systems with BMS, and the importance of IBMS in smart buildings and the upcoming smart cities.

Milnd Yeole from Tec Sec Technology, Mumbai; Anup Patil from Easy IO, Mumbai; and Mayank Dadu from Safety Engineers, Indore presented their company profiles.

The presentation was attended by more than 50 persons including leading architects, MEP consultants, MEP and fire contractors and end users from hotel and infrastructure segments.



Pankaj Tiwari addresses the audience

### Program on Air Conditioning – Myths & Misunderstanding at Vadodara

A half day program was held by Vadodara Chapter in Association with Vadodara Chamber of Commerce & Industries (VCCI) at VCCI Auditorium, GIDC, Makarpura, on May 27. Rajen Vyas was the speaker. The topics covered were air conditioning basics, types of air conditioning systems and applications of air conditioning systems. There were 30 participants. Himanshu Patel, Secretary, VCCI, was present during the event.



Rajen Vyas explodes some air conditioning myths



## PROGRAMS

### Deccan Chapter Conducts Technical Program on Clean Rooms

Deccan Chapter conducted a Technical Program on 'Design and Constructional Aspects of Clean Rooms' on June 17 at its office. B.B.N. Prasad was the speaker. The program was attended by members as well as non-members including students.



B.B.N. Prasad conducts program on Clean Rooms

### Program by Deccan Chapter on Car Park Ventilation

Deccan Chapter conducted a Technical Program on 'Design of Car Park Ventilation' on June 9 at its office. Members as well as non-members attended the programme.



Program on car park ventilation

### Technical Talk on Green Conditioning at Indore

Indore Chapter organized a Technical Talk on 'Green Conditioning' on May 13 at Smash Hall of Indore Tennis Club. The speaker was Nishant Gupta. About 40 delegates attended, including leading architects, MEP consultants and contractors and end users from hotel and infrastructure segments.



Nishant Gupta explains Green Conditioning

Chapter President Pankaj Tiwari welcomed the participants and shared Chapter activities planned during the year. He introduced Nishant Gupta to the audience. Nishant Gupta spoke about Green technologies, particularly various forms of evaporative cooling, and their importance in cities like Indore.

Chapter Secretary Sandeep Belsare proposed the vote of thanks. Student Chair Ajeet Bargaley was actively involved in organising the program.

### Product Presentation by Haier at Guwahati

Haier, along with Guwahati Sub-chapter, organised a product presentation at Viswaratna Hotel on May 6.

Gautam Banerjee, President of the Sub-chapter, welcomed the guests and introduced the speaker Debajit Sen, Product Group Head (Commercial Air-conditioners), Haier. He presented the various appliances marketed by Haier in India, addressing the special needs of the North-Eastern region. Steps taken by the company



Debajit Sen makes a product presentation

towards the preservation of the environment were explained.

The audience comprised of about 60 members from various government agencies, industries, private firms and research institutes. Prof. P. Muthukumar, Immediate Past President, proposed the vote of thanks.

### Chennai Chapter Conducts Program on Ammonia Plants

Chennai Chapter organised a program on May 20 at its Training Hall. The topic was 'Industrial Refrigeration Applications and Designing of Safe Ammonia Plants'. Vijay Bhaskaran was the faculty. The program was attended by more than 20 members.

The speaker covered the basics of industrial refrigeration and its applications, and precautionary measures in industrial refrigeration. He dwelt on designing of safe and energy efficient ammonia plants.

### Yaskawa Product Presentation at Chennai



Yaskawa product presentation in progress

Chennai Chapter arranged a product presentation by Yaskawa on May 6 at Feathers (a Radha Hotel). The focus was on low harmonic drive solutions for building automation. The event was attended by more than 100 members.

### Gratitude Evening in Mumbai

Mumbai Chapter celebrated a Gratitude Evening on May 5 at the terrace of The Orchid. The main purpose was to express gratitude to all partners who had supported the programs of Mumbai Chapter during the last year.



Representatives of partners who were felicitated

Mihir Sanghvi, Chapter Treasurer, conducted the program with his usual élan. President Ajaj Kazi welcomed the participants. Mementos were presented to as many as 41 companies during the course of the evening.

The occasion also saw the launch of ISHRAE Students Technical League (ISTL) with 12 participating colleges, each of which has a Student Chapter. Each college was assigned a mentor. Final year students are members of their college teams. The teams will carry out building design projects. Marks will be awarded for the content as well as presentation. The jury will comprise of CWC members Rahul Bhole, Amod Dikshit, R. N. Joshi and Sangita Jhangiani. There will be three prizes of Rs. 15,000, Rs. 9,000 and Rs. 7,500 respectively. All the participants will



Students visibly excited at the launch of ISTL



Deepak Shewani presents Mupro product line-up

receive the ISHRAE Handbook and Weather Data Book. The results will be announced in September.

The Title Partner for the evening, Mupro, made a product presentation. The presenter was Deepak Shewani, Managing Director, Mupro India Pvt. Ltd. He introduced the product line-up launched in India.



Professional dance troupe entertains the participants

Entertaining dance numbers performed by a professional dance troupe interspersed the proceedings throughout the evening.

R. N. Joshi, CWC member, proposed the vote of thanks.

### Seminar on Data Center in Mumbai

ASHRAE Mumbai Chapter, along with ISHRAE Mumbai and Thane Chapters, held a Seminar on Data Center on June 23 at The Orchid. The program partners were Ensavior Technologies and Vertiv Energy. FSAI and RATA were the associate partners. Over 130 delegates attended the program.



ASHRAE Mumbai Chapter President Nitin Naik and ISHRAE Mumbai Chapter President Ajaj Kazi light the lamp of knowledge

Mihir Sanghvi, Treasurer, ISHRAE Mumbai Chapter conducted the program. After the lighting of the lamp, Yusuf Bhesaniwalla (CTT Chair, ASHRAE Mumbai Chapter) welcomed the delegates. The keynote address was delivered by N. K. Jain of N. K. Jain Consulting Engineers.

Sanjib Seal of Swegon Blue Box made the first technical presentation of the day. He spoke about *Basics of Precision Air Conditioning*. He made another presentation in the afternoon on *New Trends in Data Center Energy Efficiency*.

Sudipta Kumar Sanyal spoke on *Measurement and Verification of Data Center PUE*. Ashwin Ijantkar made a presentation on *Fire and Life Safety in Data Center*. He introduced the concept of High Sensitivity Smoke Detection (HSSD) through air sampling as the first line of defence against fire, and Point Smoke Detection System (PSDS) as the second line of defence. The last technical session of the program was on *Hot Aisle vs. Cold Aisle Containment* by Raghuveer Singh. There were product presentations by Ensavior and Vertiv in between the technical sessions.



N. K. Jain delivers the keynote address



Sanjib Seal explains precision air conditioning

Sangita Jhangiani, President-elect, ISHRAE Mumbai Chapter proposed the vote of thanks.

### Tech Talk on Passive Thermal Storage in Mumbai

Mumbai Chapter organised Tech Talk 6 on 'Passive Thermal Storage for Air Conditioning Load Reduction' on June 2 at its office. It was attended by 13 delegates and CWC members. Industry veteran Surendra H. Shah (Director, Pan-Asia Engineering Pvt. Ltd.) who has almost 50 years of industry experience, was the speaker.



# STUDENT ACTIVITY

## Annual Meet of Student Chapters at Chennai

The annual meet of Student Chapters in Chennai was organised at the request of Student Chapters and the HVAC industry on May 27 at the Chapter office. Danfoss, Hitachi, ETA General and ALP attended the meet along with 75 students. It gave an opportunity to the participants to know about the industry, its growth and scope for engineers. Resumés of the students were collected, and a written test was conducted followed by group discussions and individual interviews. Shortlisted candidates were invited for further discussion by the companies.

## Opportunities in Air Conditioning for Hearing Impaired

Deccan Chapter was associated with a program on ‘Opportunities in Air Conditioning for Hearing Impaired’ conducted at National Career Centre for the Differently Abled at ATI Campus, Hyderabad on June 15. It was attended by over 150 candidates. The Chapter played audio visuals, and arranged translators to communicate the contents to the candidates.



A translator explains the contents to the hearing impaired

## Basics of HVAC and Career Opportunities

A guest lecture was organized by Indore Student Chapter for its members on May 12 at IES IPS Academy. Pankaj Tiwari, President, Indore Chapter and Jitendra Vyas, President-elect addressed the students. Sharad Chaudhary, Past President, Ajeet Burgaley, Student Activity Chair and Kautuk Dixit, Chair Youth @ ISHRAE were also present. A

lecture was given by Prashant Pavecha, CEO, Coolaid and Past President and Regional Director, West 2 on ‘Basics of HVAC and Career Opportunities in ACR Industries’. The vote of thanks was proposed by Ajeet Burgaley.

## Indore Chapter Conducts Student Visit to Central Mall

A site visit to Central Mall was organized by Indore Chapter on April 29. Students of various colleges participated, and learned about the chilled water central cooling system in the mall.



Students interact with mall management

## Site Visit to TI Mall in Indore

Another site visit was conducted to TI Mall on May 18. About 100 students from various colleges of Indore participated in the visit.

## Technical Talk on Basics of Ammonia Refrigeration at Nadiad

Vadodara Chapter organised a Technical Talk by Kishor Manglani on ‘Basics of Ammonia Refrigeration’ on April 3 at D. D. University, Nadiad.

The broad topics covered were ammonia as a refrigerant, fundamentals of ammonia refrigeration, comparison of ammonia and other refrigerants, and ammonia refrigeration applications. There were 30 participants.



Kishor Manglani delivers his presentation

# K-12 ACTIVITY

## Quiz Competition at Vadodara

Vadodara Chapter held a quiz competition on the sidelines of Happy Street organised by the Times of India at Kamatibaug on April 23 on the theme ‘Earth Day’. About 35 children took part in the competition.



Children participate in Earth Day at Vadodara

## National Technology Day in Nagpur for Differently Abled Children

Nagpur Chapter reached out to the differently abled children of Sweekar, Nagpur on the occasion of National Technology Day on May 11 to disseminate technical information.



Autistic students attend the workshop at Nagpur

The Chapter organised a ‘Sit and Explain’ workshop to mark the occasion at Sanmvedna School of Autism, as a part of its K-12 activity. The workshop will help the children understand the importance of science and technology in the HVAC field. The workshop dwelt on technology and its uses in our day-to-day lives like lights, fans, coolers, air conditioners, refrigerators and other gadgets. Around 20 children attended the workshop.

Chapter President Dr. Shashank Dongarwar, Secretary Dr. Amol Andhare, K-12 Activity Chair Moin Naqvi, Refrigeration Chair Harshad Phadke, Ar. Indrakumar Advani, Pradip Kaleshwarwar, Venkatesh Mohare, Sanjay Tatwawadi and the entire CWC team were present at the event.

## Mumbai Chapter Reaches Out to Orphan Children

Mumbai Chapter organised a K-12 program on June 5 at House of Charity, Versova to motivate the children and other members of the orphanage on the occasion of World Environment Day. Trees were planted around the premises. A cupboard was donated to the orphanage, which houses about 50 inmates.

## 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 your reports to ensure that your activities get the exposure they deserve:

- The deadline for receiving reports is the last day of the relevant period. For example, for publication in the July-August issue, the deadline is August 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.