



September-October 2017

# ISHRAE



# news

Linking ISHRAE Chapters  
Across India

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

## BREAKING NEWS

# BoG Approves 2019-20 President Nomination

The Nominating Committee comprising of 6 last National Presidents, the President-Elect and the current President, nominates the office bearers for the next year. It held an exhaustive meeting at Kolkata on October 13 to discuss the nominations for the Society year 2018-19 and to finalise the list of recommendations to the Board of Governors (BoG). The nominations are generated at the Regional Caucus meetings by all the Chapters and Regional Directors.

The BoG, in its meeting held at Jaipur on November 2-4, accepted the recommendations of the Nominating Committee, which includes Vikram Murthy as the President-Elect for 2018-19. The nominations are subject to final approval by ISHRAE members through an online ballot. The President-Elect for 2018-19 will automatically take over as President in 2019-20.



Vikram Murthy

## ISHRAE Signs MoU with CREDAI

To further its objective to work in alignment with all stakeholders in the project development space, ISHRAE has signed a Memorandum of Understanding (MoU) with The Confederation of Real Estate Developers Associations of India (CREDAI), the apex body of private real estate developers.



Vishal Kapur shakes hands with Jaxay Shah, President of CREDAI, after signing the MoU, applauded by D. Nirmal Ram and Pankaj Dharkar (Past National Presidents of ISHRAE), C. Subramaniam (President-Elect) and Richie Mittal (India Chapter Director of IAQA)

## MoU Signed with ExpoNet, Bangladesh

ISHRAE signed a Memorandum of Understanding with ExpoNet of Bangladesh on October 4 at Jaipur to promote Indian HVAC&R systems, business networking and collaboration in the Bangladesh market via Bangladesh Institute of ICT in Development (BIID) Expo and Dialogue-2018.



C. Subramaniam (National President-Elect) and Pankaj Dharkar (Past President) pose with ExpoNet officials after signing the MoU

## ISHRAE Technical Committee Meeting at Kolkata

A meeting of ISHRAE Technical Committee (ITC) was held at Kolkata on October 14.

ITC coordinates and conducts all the technical activities of ISHRAE, such as books and publications, standards, industry-academia research and student research, special initiatives, technical groups, Knowledge Bank and Hall of Fame. ITC has set a record

in the current year for the maximum number of new books, with Data Book and Filter Fundamentals already launched, and books on Commissioning, Corrosion, VRF Standard, Safety Guidelines for Refrigerants and many more planned to be launched in the current year. Handbooks on Refrigeration and Ventilation are also under preparation.

## C. V. Raman CoE Appointed as IIE Franchise

An agreement was signed with C. V. Raman College of Engineering, Bhubaneswar on October 12 appointing it as the first Franchise of ISHRAE Institute of Excellence (IIE). The agreement authorises the College to operate IIE's first Franchise-operated IIE - AEDC (Advanced Engineering Diploma Course) Centre. The College (soon to be a deemed University) has amongst the best RAC laboratories in India.



Vishal Kapur presents the franchise plaque

With this, IIE now has its centres in the North (Delhi), South (Bengaluru) as well East of India.

## ISHRAE Certification Program

### DECCAN CHAPTER

conducted ICP Service Module 2 on September 8 and 9 at its office. Sreekanth Papineni was the Instructor. There were 16 participants.

### VADODARA CHAPTER

organised ICP Service Level-1 on July 29-30 and August 5-6 at GETRI. Chirag Fadadu, Kumharsingh Dagur and Durgesh Shah were the faculty. There were 26 participants.

### MUMBAI CHAPTER

conducted ICP AC Design Level-1 Module 3 from September 6 to 8, with Govind Lele as the faculty.

## Webinar on Refrigerants

HQ organised a webinar on refrigerants by Kapil Singhal on October 13. Kapil Singhal, the founder of BP Refcool, is a member of Refrigerants Technical Committee of ISHRAE. The webinar covered Basics of Refrigerants: Performance, Environment and Safety.



# Goa Chapter Celebrates TechFest

Goa celebrates its annual TechFest as surely as its Carnival, and with perhaps as much spirit and fervour. September 8 was the T-day this year, and the venue was the familiar and friendly Cidade de Goa. Organised by ISHRAE Goa Chapter as a National Program supported by ASHRAE, Fire and Security Association of India (FSAI), Indian Green Building Council (IGBC), Indian Plumbing Association (IPA) and Refrigeration & Air Conditioning Trades Association (RATA), the symposium had a focused theme: Trends & Opportunities for HVAC&R in the Marine Industry. It was held in association with Goa Shipyard Ltd., and was designed to help the shipyard's efforts to expand its vendor base and support its expansion plans. Fläkt Woods India and Chowgule Group partnered the event. Milind Sardessai, past president of the Chapter, was the Convenor.

Chapter President Michael Martins opened the symposium by welcoming the delegates. The Chief Guest and star of the event was Goa Chief Minister Manohar Parrikar, an IIT graduate, who addressed the symposium as well as a press conference. In his address to the symposium, the CM exhorted engineers to focus on the environment and energy conservation. "Engineers must design machines that have efficient mechanisms and perhaps work on sensors to achieve energy efficiency," he said. He shared some other energy saving ideas too. He added that ACs have almost become a necessity in homes, as much as TVs and refrigerators. During the press conference, he highlighted the shortage of quality contractors to handle the ongoing infrastructure projects in the state, and lauded the efforts of ISHRAE to train contractors along with Goa Shipyard.

Manohar Parrikar was conferred honorary membership of ISHRAE during the event. ISHRAE President Vishal Kapur presented the ISHRAE pin to the CM.



**Manohar Parrikar lights the traditional lamp along with Rear Admiral Shekhar Mittal, ISHRAE Regional Director Hemant Marathe, National President Vishal Kapur, Chapter President Michael Martins, National President-Elect C. Subramaniam and Chapter Past President Siddharth Kunkolienicar**

Siddharth Kunkolienicar, Past President of ISHRAE Goa Chapter and Chairman of Economic Development Corporation Ltd. (EDC), was conferred the Chapter Service Award (CSA) for his services to Goa Chapter.



**Siddharth Kunkolienicar is conferred CSA at the hands of Manohar Parrikar**

The keynote address at the symposium was delivered by the Guest of Honour Rear Admiral Shekhar Mittal, Chairman and Managing Director of Goa Shipyard. He highlighted the importance of air conditioning for smooth functioning of critical on-board systems.



**Rear Admiral Shekhar Mittal**

Thomas Verghese, AGM of Goa Shipyard, gave an overview of HVAC&R from the shipyard's perspective. He was followed by Ms. Kavyalatha, who spoke about vendor qualification procedures.



**Thomas Verghese**



**Ashok Chowgule**

Ashok Chowgule, Executive Director, Chowgule & Co. addressed the audience on the need to provide HVAC in the accommodation area in cargo vessels.

Commander (Retd.) Pramod Palsule spoke about marine air conditioning and refrigeration plants, dwelling at length on steam jet air conditioning that is particularly suitable when excess low pressure steam is available.

The last two presentations were made by Commandant (Retd.) P. C. Remesan and Varghese Iynikkal – Senior Surveyor, Marine Lloyd's Register Asia. Commandant Remesan spoke about classifications from the marine perspective. Varghese Iynikkal's address covered the statutory aspects of ventilation, air conditioning and refrigeration.

The symposium ended with a question-answer session and vote of thanks.



**Manohar Parrikar addresses TechFest**



**Vishal Kapur presents the ISHRAE pin to Manohar Parrikar**



**Manohar Parrikar addresses the press conference along with Siddharth Kunkolienicar, Vishal Kapur and C. Subramaniam**





# Ahmedabad Holds 12<sup>th</sup> Confluence and REFCON

The 12th edition of Confluence, the flagship annual National Program of Ahmedabad Chapter, was played out on September 1 at Karnavati Club to a packed house followed by Refcon the next day. The twin events were organised by ISHRAE Ahmedabad Chapter along with ASHRAE Western India Chapter. This year's theme for Confluence was 'Indoor and Outdoor Air Quality Management', and Refcon featured the theme 'Sustainable Cold Storage Solutions'.

Indoor Air Quality Association (IAQA) India and UN Environment lent global support to the events, which were also supported by Gujarat Agro Industries Corporation; Department of Agriculture, Farmers Welfare and Co-operation, Government of Gujarat; Fire and Security Association of India (FSAI); Indian Association of Energy Management Professionals (IAEMP); Indian Green Building Council (IGBC); Indian Institute of Ammonia Refrigeration (IIAR); Green Building Certification Inc. (GBCI); The Indian Institute of Architects; and Institute of Indian Interior Designers. The event partners were Daikin, Gujarat Energy Development Agency (GEDA), Climate Change Department – Government of Gujarat, Bry-Air/DRI, Blue Star, Edgetech, Kehems, Pureair, Caryaire, Hitachi, Camfil, Mehta Tubes, Mexflow, Danfoss, Systemair and Crystal Air Systems.

The inaugural session was addressed by ISHRAE National President Vishal Kapur and Past National President Pankaj Dharkar. A message from Gujarat Chief Minister Vijay Rupani was conveyed to the audience.



A full house at Confluence



Richie Mittal, G. C. Modgil, Dipak Barma, Sushil Choudhury, Mili Majumdar, Rajan Rawal and Kanwal Jeet Jawa at the panel discussion

IAQA. The panellists were G. C. Modgil, Dipak Barma and Sushil Choudhury – Past National Presidents of ISHRAE, Mili Majumdar – Managing Director, GBCI; Rajan Rawal – Executive Director, Centre for Advanced Research in Building Science and Energy (CARBSE) at CEPT University; and Kanwal Jeet Jawa.

In the post-lunch session, Ashish Rakheja, Managing Partner – Aeon Consultants, made a presentation on 'Performance Based Approach to Good IAQ Design'. Barun Agarwal, CEO, BreatheEasy Consultants, spoke on 'Decoding Air Purifiers in India'.

ated by Pankaj Dharkar. The panellists were K. Ramachandran, D. Nirmal Ram, Pankaj Shah and Ashish Rakheja – Past National Presidents of ISHRAE, C. Subramaniam – President-Elect, and Dr. Bharat S. Mody – Director, Welcare Hospital, Vadodara.

The sessions were interspersed with partner presentations from Daikin, Armacell, Mehta Tubes and DRI.

Day 2 (September 2) was devoted to Refcon. Vishal Kapur addressed the audience on the refrigeration market in India, which is growing fast despite the overall industrial slowdown. The fastest growing cold chain segment is cold storages. Pankaj Dharkar spoke about sustainable cold chain solutions.



Vishal Kapur



Pankaj Dharkar



Kanwal Jeet Jawa delivers the keynote address at Confluence

Kanwal Jeet Jawa, Managing Director of Daikin India, delivered the keynote address. He spoke about Daikin's efforts like the introduction of low GWP refrigerant R32, air purifiers, creation of Centres of Excellence to impart skills and other green initiatives.

Raefer Wallis, architect and founder of GIGA and RESET, Shanghai made a presentation on 'Lessons from Developing Standards for Real Time IAQ Monitoring'. He explained the applicable design and operational standards.



Raefer Wallis

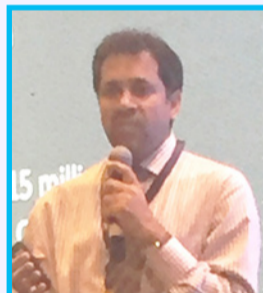


Maija Virta

She highlighted that 'fresh air' is now more polluted than indoor air.

The first session concluded with an interesting panel discussion on 'Outdoor Air Quality 2030 – Generation Next'. It was moderated by Richie Mittal, owner of Overdrive Engineering and India Chapter Director of

Prof. Chandra Sekhar, Ph.D., from National University of Singapore made a presentation on 'Air Pollution – Societal Impact and Mitigation Strategies'. Maija Virta, Founder Director – Santrupty Engineers, spoke on 'Solutions for IAQ Management'.



Ashish Rakheja



Barun Agarwal

Nitin Deodhar, Ph.D., of N M Deodhar Consulting Engineers addressed the audience on 'Energy vs IAQ'. Mahesh Prabhu – CEO & Founder of Essem Group, Goa gave an overview of 'Legionella Control in Healthcare Facilities'. Rahul Aeron – National Sales Manager, Energy Recovery at DRI made a presentation on 'Emerging Trends in Indoor Air Quality'.



Nitin Deodhar



Mahesh Prabhu

The concluding session of the event was a lively panel discussion on 'IAQ for Healthcare Facilities' moderated by Pankaj Dharkar.



Vishal Kapur addresses Refcon



Pankaj Dharkar talks about sustainable cold chain

The first keynote speaker, B. Thiagarajan – Joint Managing Director, Blue Star, mentioned in his speech that all government programs pertaining to the agricultural sector are focussed on the avowed government policy of doubling farmers' incomes. There is no constraint on the supply side. On the supply chain side, middlemen are important for developing cold chain infrastructure.



Pankaj Dharkar, K. Ramachandran, D. Nirmal Ram, C. Subramaniam, Pankaj Shah, Dr. Bharat S. Mody and Ashish Rakheja during the panel discussion

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## Ahmedabad Holds Confluence and Refcon

ture. He predicted that import and export regulations will be removed. The government is formulating its policy on multi-brand retail, and once it is opened up, it will trigger huge growth. He added that cold storages are viable only in certain cases. Consumption of



B. Thiagarajan delivers the first keynote address

commodities like potato and banana is very stable throughout the year, making it viable to run cold storages for them. Very high value addition to food items like apples and pomegranates through food processing for exports makes it viable to have cold storages for them. In other cases, cold storages are not viable. The only exception is the price arbitrage model where the trader buys stock in the season and releases it throughout the year. He emphasised that in a country like India, the focus should be on an affordable cold chain. In future, most farms will have photovoltaic roofs to tap the abundant solar power available here. While the cold chain industry is growing at 15%, alternative preservation methods like dehydrated onion powder will also become relevant.



M. Gopi Krishna delivers the second keynote address

The second keynote address was delivered by M. Gopi Krishna – Chief Operating Officer, Voltas. He spoke about the need to invest in technology to make manufacturing of compressors and other critical components viable. He highlighted the need for knowledge sharing, and spoke of emerging trends like the use of sensors and predictive analysis.

The first session after the inaugural was the United Nations Environment Program (UNEP) session. It was addressed by Tanmay Tathagat – Director, Environment design Solutions; Rajesh Premchandran – Vice President, Refrigeration & Air Conditioning, Danfoss India; Atul Bagai – Senior Regional Coordinator, UNEP; and Smita Vichare – Senior Project advisor, GIZ.



Tanmay Taghagat addresses the audience on 'Food Wastage and Indian Agriculture'



Rajesh Premchandran presents the views of National Centre for Cold-chain Development (NCCD)



Atul Bagai speaks on 'Overview of India's HCFC Phase-out Management Program and Cold Chain Project'



Smita Vichare talks about skill development



Tanmay Tathagat, Atul Bagai, Smita Vichare, M. Gopi Krishna, Rajesh Premchandran, C. Subramaniam and Harshal Surange at the panel discussion on ODS phase out

The ensuing panel discussion on 'Cold Chain and Phase-out of Ozone Depleting Substances' was moderated by Tanmay Taghagat. The panellists were Atul Bagai, Smita Vichare, M. Gopi Krishna, Rajesh Premchandran, C. Subramaniam and Harshal Surange.



Bhairavi Jani

The next speaker, Dilip Sarda – Director, Synergy Agro Tech, gave a presentation on 'An Application of Cold Chain for Milk'.



K. K. Mitra

Bhairavi Jani – Executive Director, SCA Group and Chairperson, IEF made a spirited presentation on 'Re-engineering India's Cold Chain Logistics – the Next Frontier'.



Dilip Sarda

K. K. Mitra – Vice President, Lloyd Insulations (India) addresses the audience on the topic 'Modern Cold Storage Infrastructure Construction including Solar Cold Rooms'.

Harshal Surange – Director & CEO, ACR Project Consultants and National Refrigeration Chair – ISHRAE, spoke on 'Low Charge Ammonia Systems and Renewable Energy'. He was followed by Mukul Ranade – Professor & Project Guide, Pune University, who spoke on 'Lithium Bromide Absorption Chillers for Cold Chain and Solar Based Cold Storage using Absorption Chillers'.



Harshal Surange

Prateek Singhal – COO & Co-founder, Ecozen Solutions, gave a presentation on 'Building a Smart and Sustainable Cold Chain'. The last presentation was made by Samit Jain – Managing Director, Pluss Advanced Technologies, on the topic 'Thermal Energy Storage Applications'.

The program culminated with a panel discussion on 'Future Trends & Challenges of Cold Chain in India', moderated by Arvind Surange – CMD, ACR Project Consultants. The panellists were B. Thiagarajan, Dilip Sarda, Mukund Ranade and Bhairavi Jani.

The sessions were interspersed with partner presentations from Blue Star and Mehta Tubes.



## News in Brief

**ISHRAE Deccan Chapter**, in association with ASHRAE Deccan Chapter, arranged a product presentation on 'UV Lamps for IAQ Applications' by Fraser Techno Circuits Ltd. of BioZone Scientific International. Paul Morris, Director EMEA at BioZone made the presentation.

**Deccan Chapter** conducted a Technical Program on 'Improving Management Efficiency in Air Conditioning Projects' on September 22. Dr. R.V.S.S. Prasad was the faculty. Several consultants and contractors participated in the program.

**Ranchi Chapter** organised a product presentation by Soil & Enviro Industries Pvt. Ltd. on October 12 at Capitol Hill.

**Mumbai Chapter** organised a Tech Talk on Sun Path Analysis on October 25 at the Chapter office.

**Thane Chapter** organized a full day program, 'HVACR Energy Summit 2017', on September 16 at Satkar Grande, along with ASHRAE Mumbai Chapter. Dr. Nitin

Deodhar of N M Deodhar Consulting Engineers delivered the keynote address. Around 130 delegates attended the program.

**Mumbai Chapter** held a Technical Talk with live demonstration on 'Cleanroom HEPA Filter Leak Testing' on September 27. The faculty was Santsaran Advani.

**Gurgaon Sub-chapter** organised a National Seminar, 'Refcon Gurgaon 2017', at The Pllazio Hotel on September 23.

**ISHRAE Mumbai and Thane Chapters and ASHRAE Mumbai Chapter** held a Tech Talk on Variable Frequency Drives on September 15. Gaurav Raut was the faculty.

**Mumbai Chapter** organised a half day workshop on 'Refrigeration Heat Load and Equipment Selection' on September 16. Vikram Murthy was the speaker.

**Mumbai Chapter** organised a Tech Talk on Variable Frequency Drives on September 15.

## Guidelines for Reports in eNews

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