

AROUND THE CHAPTERS

Jalandhar Sub-chapter – the latest member of the ISHRAE family – was installed on July 2 by its parent chapter, Chandigarh.



President Ajay Bansal of Chandigarh Chapter presents the Charter to Gurpartap Singh, President of Jalandhar Sub-chapter

Kalpakkam Sub-chapter was upgraded to Chapter level, and installation of the CWC team for 2019-20 was done by K. Thirunavukkarasu, RD South-2. Chief Guest Dr. Arun Kumar Bhaduri – Distinguished Scientist and Director, IGCAR; Guest of Honor Vikram Murthy, National President; N. S. Chadrasekhar, VP (South); and S. Vijayabaskaran, President, Chennai Chapter were present on the occasion.

Kalpakkam Chapter President N. S. Gopala Krishna made a presentation on the journey of the Sub-chapter since its inception in 2008. About 150 members witnessed the chapter upgradation ceremony.



(L to R) N. S. Gopala Krishna, K. Thirunavukkarasu, Biswanath Sen, Biplob Paul, Dr. Arun Kumar Bhaduri, Vikram Murthy, N. S. Chandrasekhar and S. Vijayabhaskaran release the souvenir on the 11 years' journey of Kalpakkam sub chapter

Coimbatore Chapter conducted a Heat Load Estimation and Procedures workshop on July 20 at Hash Six, Coimbatore.



Sekar delivers a lecture on Heat Load Estimation

Goa Chapter held a workshop on July 12 on the topic 'Art and Science of Blast Freezing, Cold Chain Technology, Innovations in Refrigerated Transport,



Parth Thakkar conducts a workshop in Goa

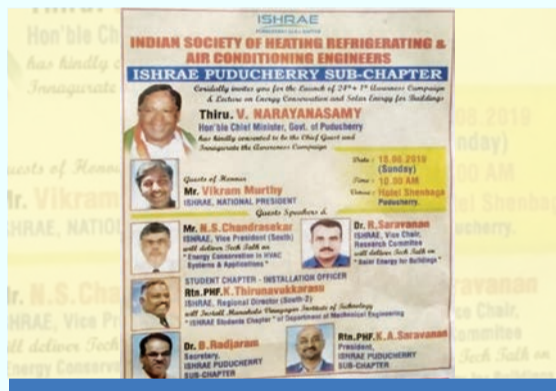
Case Studies and Economics of Cold Storages', by Parth Thakkar.

Chennai Chapter organised a one day workshop on 'Energy Labelling based on Star Rating', jointly with ASHRAE.



An attentive audience in Chennai

Puducherry Sub-chapter launched an Awareness Campaign for 24+1⁰ and a lecture on 'Energy Conservation in HVAC Systems and Applications, and Solar Energy for Buildings' during the installation of the student chapter at Manakula Vinayagar Institute of Technology on August 18. V. Narayanasamy, Chief Minister of Puducherry, was the Chief Guest, while Vikram Murthy was the Guest of Honour.



The invitation for the event at Puducherry

Gurugram Chapter held a one day workshop on 'Indirect-Direct Hybrid Air Conditioning' on July 13.

Pune Chapter organized a Technical Talk on 'Screw and Centrifugal Compressors – Challenges and Latest Trends for Air-conditioning' on August 2 at College of Engineering, Pune. It was attended by 75 delegates.

Guwahati Chapter organized a program on 'Importance of Electrical Issues in HVAC Systems' on August 10. D. Bhagawati gave a lecture on electrical safety in HVAC systems.



D. Bhagawati delivers his lecture

Ahmedabad Chapter arranged a Technical Talk on 'Technology of Pressure Independent Valves, Energy



Nikhil Deshmukh explains energy valves

Valves & Sensors' at Crowne Plaza on July 26. Nikhil Deshmukh and Ketan Sheth from Belimo Actuators delivered lectures on the topic. More than 120 delegates attended.

Lucknow Chapter organized a Technical Workshop on 'Duct Design Fundamentals' by Sameer Srivastava at Hotel Charan Plaza on August 3.

Ludhiana Sub-chapter organized a Technical Talk on 'Challenges in Compressor Selection for Refrigeration and Cold Chain with its Failure Modes' on July 26 at Guru Nanak Dev Polytechnic. Sanjay Hans from Emerson gave the lecture. Over 90 members participated.

Delhi Chapter of ISHRAE organized a half day Technical Workshop by Kapil Singhal on 'Understanding Refrigerants: Basics, Regulations, Safety and Advancements' on July 19.



Kapil Singhal conducts the workshop on Refrigerants

Bangalore Chapter conducted a Technical Talk on 'Evaporative Cooling Technologies' on July 26. The speaker was Pradeep Samuel. The program was conducted at Hotel Chalukya. It was attended by 44 members and six non-members from renowned HVAC industrial organisations.



Pradeep Samuel addresses the audience at Bengaluru

Kolkata Chapter conducted a half day seminar on 'Application and Advantages of VRF Systems' by Kumar Snehashish on July 20.

Jaipur Chapter conducted a Technical Talk on 'Indoor Air Quality In Hospitals' on July 13 at Malaviya National Institute of Technology.

P. K. Anand, Chapter Secretary, welcomed the delegates. Satendra Pal Singh (Senior Engineer, HVAC at Narayana Multi-specialty Hospitals) made a presentation on indoor air quality in hospitals. He introduced various products for air purification. The event concluded with a vote of thanks by P. K. Anand.

Indore Chapter organized a Technical Talk by Rajesh Gandhi on 'Heat Pump – the Most Environment Friendly way to Heat up Water' at ITC on August 3.

Chennai Chapter conducted a program titled 'Unlock the Value of IOT Data for Smart Buildings and



Raghav Thalabhaktula speaks about IOT for Smart Builders and Cities

Cities' at SRM Easwari Engineering College. The speaker was Raghav Thalabhaktula – Solutions Architect, CISCO Systems, Dubai. It was attended by 55 participants.

Indore Chapter conducted REFCON 2019 at Brilliant Convention Centre on August 30. It was attended by 72 delegates.



REFCON at Indore

Youth@ISHRAE Pune Chapter and Pimpri-Chinchwad Collage of Engineering (PCCOE) Art Circle

jointly organized an eco-friendly Ganesh idol making workshop on August 24 for Youth and K-12 students at PCCOE. In all, 20 students participated. Nilesh Gaikwad and Abhjit Kore were present from Y@I. Twenty Ganesh idols were made from *shadoo* and clay.



Making eco-friendly Ganesh idols

Coimbatore Chapter held a grand celebration marking its Sixth Charter Day on July 20 at Hash Six(#6).



Coimbatore celebrates charter day

Most of the Past Presidents along with the current President, President-elect, CWC members and all 78 chapter members were present. The PPs apprised the audience about the upcoming REFCOLD, URJAVRAN and ACREX.

NATIONAL PROGRAM

Mumbai Chapter's Architectronics Gets Huge Response



A view of the attentive 350-plus audience

In an effort to bring about greater alignment between architects and MEP professionals and to provide a common platform to them, Mumbai Chapter organised the first edition of Architectronics, supported by ASHRAE Mumbai Chapter and powered by Voltas – a large 75 year old TATA Enterprise, which was one of the pioneers of air conditioning and MEP services in India. The morning of July 19 at Sahara Star witnessed a capacity crowd of over 350 delegates, including more than 250 architects, filling up the convention hall – eager to avail of this opportunity to understand the 'other side of the story'.



Pradeep Bakshi lights the lamp of knowledge along with (L to R) Dr. Clayton Miller, Mihir Sanghavi, Amod Dikshit and R. N. Joshi

The traditional lamp to mark the beginning of the event was lit by Pradeep Bakshi – MD & CEO, Voltas Limited along with Dr. Clayton Miller from National University of Singapore, Mihir Sanghavi – President, ISHRAE Mumbai Chapter, Amod Dikshit – President, ASHRAE Mumbai Chapter, R. N. Joshi – President-elect, ISHRAE Mumbai Chapter, and Sanjay Verma – Convener of the event. Welcoming the delegates, Mihir Sanghavi



Mihir Sanghavi spells out the objective of Architectronics

thanked Pradeep Bakshi for adopting Architectronics and for being the Knowledge Partner of ISHRAE. He also thanked the other partners and all those present, outlined the diverse activities of ISHRAE and exhorted the delegates to become members of ISHRAE. He spelt out the objective of Architectronics as effective communication and synergy between professionals to create efficient buildings that would be architectural marvels.

National President Vikram Murthy, who was unable to be present physically, had sent a message wishing success to this unique event designed to integrate the functions of design and space.

Pradeep Bakshi, who was crowned the 'Man of Appliances 2013' by Consumer Electronics and Appliances Manufacturers Association (CEAMA), congratulated ISHRAE for organising the event to bring about synergy and integration between architects and MEP professionals. He gave a small introduction of Voltas and the milestones crossed by the company during its long journey.



Pradeep Bakshi addresses the delegates

“We are delighted to be associated with ISHRAE in this event Architectronics. As a leader in the cooling and engineering solutions space we believe such platforms help emphasise the need for MEP players and the architect fraternity to work cohesively and leverage synergy. Voltas is at the forefront of using technology like pre-fabrication and BIM effectively in our Projects business, and we look forward to driving more inclusive growth.”

– Pradeep Bakshi, MD & CEO, Voltas Limited

The first session of the day was an interactive panel discussion on the evolution of architectural practices over the years, aptly titled 'Kal, Aaj aur Kal'. It was moderated by Mihir Sanghavi. The panellists were Pradeep Bakshi, Ar. Ratan J. Batliboi, Ar. Khozem Chitalwala, Ar. Vivek Bhole and Ar. Alhad Rajee. The evolutionary trends identified were: MEP consultants replacing separate HVAC, fire safety and plumbing consultants; Building Information Modelling; responsible design conditions; hybrid systems; focus on effectiveness rather than efficiency; and MEP services becoming a part of initial architectural design. The consensus was that National



Pradeep Bakshi, Ar. Ratan J. Batliboi, Ar. Khozem Chitalwala, Ar. Vivek Bhole and Ar. Alhad Rajee participate in the panel discussion

Building Construction Code (NBCC) is better for the environment than international norms. R. N. Joshi summed up the discussions.

“A good, interesting forum to break the silos of architecture and MEP services. Such platforms are to be encouraged. We should look at effective – not merely efficient – solutions.”

– Ar. Ratan J. Batliboi

The first technical session was a Net Zero Building case study by Dr. Clayton Miller, Assistant Professor, Department of Building, National University of Singapore (NUS). The School of Design & Environment building he presented is the first new construction NZEB and WELL certified building in Singapore. It has a hybrid cooling system with 100% outside air, designed for indoor temperature of 26 to 28°C. Air movement, energy efficiency and comfort are the focus areas. Its architecture features include natural cross ventilation, daylighting and shading with an



Dr. Clayton Miller

East-West façade. As a part of the NUS Campus, it shares the latter's district cooling system. The solar photovoltaic installation on the roof is designed to maximise the use of solar energy, and is fully adequate for the energy needs of the building.



“A very well organised event, good choice of speakers and venue, overall a very pleasant experience for architects and MEP professionals.”
– Ar. Ashish Patankar

Ar. Hiten Sethi addressed the second technical session of the day on the topic 'Campus Planning and Design'. After his address, he was conferred honorary membership of ISHRAE Mumbai Chapter.



Ar. Hiten Sethi

Ar. Shilpa Chandawarkar was the next speaker. She spoke passionately about 'Biophilia – Coming Full Circle'. Her speech revolved around purposeful and meaningful landscapes.



Ar. Shilpa Chandawarkar

“A wonderful initiative... much needed. It will help users, designers, architects, industry and society at large in the long term.”
– B. R. Katyal, Past President, ISHRAE Mumbai Chapter

The second interactive panel discussion was on architecture and MEP, titled 'Surat aur Seerat.' The participants were Ar. Debashish Mitra, Ar. Ravindra Deshpande, Dr. Clayton Miller, N. Sridhar from Voltas, Ar. Parish Kapse and Ar. Tejaswini Pandit. It was summed up by R. N. Joshi.

Ar. Sandeep Shikre was the next to address the delegates on the topic 'The Power of Design: Be Together, Work Together'.



Ar. Sandeep Shikre

“A commendable effort by ISHRAE... a wonderful gathering.”
– Ar. Sandeep Shikre



Ar. Shreesh Thergaonkar

N. Sridhar made a Voltas product presentation. Ar. Shreesh Thergaonkar addressed the last technical session of the day, with a presentation on Jio World City.



(L to R) Ar. Debashish Mitra, Ar. Ravindra Deshpande, Dr. Clayton Miller, N. Sridhar, Ar. Parish Kapse and Ar. Tejaswini Pandit participate in the panel discussion

FELLOWSHIP

Deccan Chapter organised a gathering of the CWC Team and Youth Super-20 Team in one of the islands of Nagarjuna Sagar reservoir for an overnight camp under the beautiful night skies to study the star trails.



A night under the skies



Participants in the Badminton League

Kochi Chapter organized the biggest sporting event ever witnessed by the Kerala HVAC industry – a badminton tournament at Play-to-Win Badminton Academy – on July 20. It was coordinated by Youth@ISHRAE Cochin Chapter. The objective of the event was to bring all ISHRAE members to meet, interact and, most importantly, spend some quality time sharing moments of sportsmanship. Along with 32 participants (16 teams), many senior consultants, reputed HVAC companies, business owners and engineers participated in this event. International coach Mohanachandran inaugurated the event. The sponsors and past presidents distributed the prizes.

ACRESERVE

Aurangabad Chapter conducted ACRESERVE – a national program for service technicians on August 24 at Aryabhata Hall, MGM Campus. It was attended by 180 delegates.



A view of the large audience at Aryabhata Hall

Thane Chapter conducted ACRESERVE 2019-20, a one-day workshop designed for working technicians on August 10 at Don Bosco Institute of Technology, Mumbai. There were 120 participants including delegates from ISHRAE. The speakers were Sagar Patil from Mitsubishi Gurgaon and Sangram Chavan from Pune. The workshop comprised of four sessions. All sessions were designed to be interactive.



Office bearers of Thane and Mumbai Chapters at ACRESERVE

Mysore Chapter conducted ACRESERVE 2019-20 on July 13 at the Mechanical Engineering Department Seminar Hall, Vidya Vardhaka College of Engineering. There were sixty participants, including two delegates from Kalpakkam. The workshop comprised of three sessions.



Lighting the lamp for ACRESERVE at Mysore

ISHRAE Certification Program

Mumbai Chapter Plans ICP AC Service (Level 1)

ISHRAE Mumbai Chapter is organizing an application based professional certification program – ISHRAE Certification Program (ICP), Air Conditioning Service Level 1 – spread over two modules, in the chapter office. Module 1 will be held on October 18 and 19, and Module 2 on November 1 and 2. At the end of the second module, there will be an examination. Certificate of accomplishment will be issued to candidates who attend the two modules and successfully complete the examination.

The program is meant for junior and senior service technicians, and AC machine and plant operators, preferably with minimum ITI or equivalent qualifications in air conditioning and refrigeration. Professionals interfacing with air conditioning industry will also find this certification valuable.

The certificate will be valid for five years from the date of certification, and candidates will be eligible for recertification by retaking the examination after paying the examination fee. Those who attend the course and do not pass the examination will be given an opportunity to retake the examination when it is held again, after paying the examination fee.

The following topics will be covered:

Module 1 (Faculty: Ajit Thampi): customer service – soft skills; types and classification of AC systems; thermodynamics – refrigeration cycle; introduction to psychrometrics; refrigeration components and controls.

Module 2 (Faculty: Sanjay Nikam): oils, refrigerants and good installation practices; electrical fundamentals for HVAC; troubleshooting; AC plant maintenance; pressure testing, leak detection, vacuumising and practical demonstration workshop.

ISHRAE Reaches Out to Students and Children

So as to take ISHRAE's engagement with students and children to the next level, HQ has started newsletters devoted exclusively to activities related to these target groups. Student Connect is a newsletter meant for members of Student Chapters, and K12 Activity Newsletter is targeted at children from Kindergarten to Std. 12.

Chapters and Sub-chapters may, in future, send news related to student and K12 activities to the following email addresses:

Student activities: youth@ishraehq.in

K12 activities: v.thakur@ishraehq.in

