



March-April 2017

ISHRAE NEWS

Linking ISHRAE Chapters Across India

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

FROM THE DESK OF THE PRESIDENT

It is a matter of great pride and honor for me being the President of the Society in the current year – I feel humbled.

The theme of the current year is ICE:

Inspire our members to come forward and feel involved,
Customize the technical activities, and

Energize the Society and Industry.

Two new initiatives of the current year are: first to engage the Youth of our Society to come forward and deliver technically and, second to bring in more Women to our Industry.

We will work towards increased focus on technical activities, skill development for technicians, research and innovation platform, certification courses, focused government connect and better industry engage. The plan is to offer more services to our members in the form of a knowledge bank, application based guidebooks, access to research documents and project reports, wider range of certification courses and training programs and more on the digital platform for ease of access including our own app.

We also seek more members to come forward and be a part of our various initiatives – please volunteer.

Let us all work towards a more sustainable and happy future.



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National President 2017-18

Know Your National Team 2017-18



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Installation of National BoG

The installation Ceremony of the NBOG members for Society Year 2017-18 was held in Bangalore on March 24 at ITC Gardenia, Bangalore alongwith Bangalore CWC Installation and launch of ACREX India 2018.



Vishal Kapur makes his acceptance speech as National President



NBoG members pose for a group photo after the installation

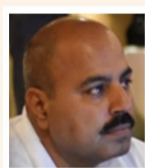


Launch of ACREX 2018 at Bangalore

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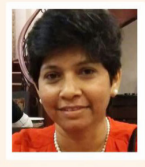
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CWC INSTALLATION

Chennai Chapter

The installation of the new team of Chennai Chapter for the year 2017-18 was organised on April 1 at Feathers. There were more than 260 participants. Seshadri was sworn in as the President. National President Vishal Kapur and President-elect C. Subramaniam were present on the occasion, along with several senior members of the Chapter and past presidents.



Chennai CWC team 2017-18



Sridhar receives the star performer award from Vishal Kapur for inducting 75 new members

History was created when 151 new members were inducted in one go during the installation.

Before the installation ceremony, there was a motivational presentation by Stephen Chinnaswamy. The theme of Chennai Chapter's signature program ACRE HEALTH, and technical seminars on radiant cooling, district cooling and the annual event REFCON were launched on the same day. An advocacy program on 'Save Water and Power' was also launched.

Mumbai Chapter

The installation of Mumbai Chapter CWC for 2017-18 took place at The Mirador on April 5. The mood was jubilant in view of the rich haul of trophies made by the Chapter based on CAFÉ points earned in 2016-17. The hall was overflowing with members. The participants included office bearers and members of the nearby Thane Chapter and Nashik Sub-chapter also.

The outgoing President Nandlal Singh



Nandlal Singh outlines achievements of last year

welcomed those present, and thanked them for working as a team to make it a memorable year. He took the members through the year gone by with the help of a PowerPoint presentation, highlighting the commitments made by him one year back on April 8, 2016 and the actual achievements during the year. New members and renewals added up to 561 – the highest ever – resulting in a strength of 1266 members at year-end. ICPs were conducted for design, cleanrooms and service. There were 75 programs, 51 student activities and 50 advocacy events during the year. About 50 students got job offers through ISHRAE Job Junction. Smart Energy was re-launched. A new Journal Committee was formed, which meets at least once every month. As a result of these efforts, the Chapter shared the award for Best Chapter (overall), and received the top awards for Membership, Advocacy



A packed hall



Ajaj Kazi makes his acceptance speech



Kapil Purandare administers the oath

and Student Activity. Four individual members figured in the list of H&A awardees: V. Krishnan, Adarsh Kaul, Gautham Baliga and Viresh Ruhul.

Immediate Past National Secretary Kapil Purandare administered the oath of office to the new CWC members. Ajaj Kazi took over as President, Sangita Jhangiani as President-elect, Sanjay Verma as Secretary and Mihir Sanghavi as Treasurer.

In his acceptance speech, Ajaj Kazi introduced his team and unveiled the theme for 2017-18: Inspire, Customise, Energise (ICE).

There was a presentation by Owens Corning introducing its new product Ecotouch, a green and soft-feel insulation with a premium facing. Nilesh Sonawane was the speaker.

Past National President K. Ramachandran, in his address, noted that a number of new faces in the CWC and a large number of Past Presidents as well as stalwarts in the audience augur well for the Chapter; the future is safe and in good hands. He commended the outgoing President for his exemplary work, and expressed the hope that the incoming President will overtake him.

This was followed by felicitation of the Chapter members who won H&A awards, incoming and outgoing RDs Hemant Bhandare and Diwakar Sawant, Past National Secretary Kapil Purandare, Nilesh Sonawane of Owens Corning, outgoing CWC members, Journal editorial team, office staff, successful ICP candidates, Vikram Murthy and Mihir Shah (the moving spirits behind Smart Energy) and RATA President Paras Sirohia.

Youth Chair Shrey Mahajan gave an introduction of Youth@ISHRAE.

The event ended with a vote of thanks by Nandlal Singh.

Kolhapur-Sangli Sub-chapter

The installation of Kolhapur-Sangli Sub-chapter CWC took place on April 12 in the presence of Chief Guest Hemant Bhandare (RD West-I), Kedar Patki (President, Pune Chapter) and Ranade (President-elect, Pune chapter). Sixty members were present, including past presidents Abhijeet Kulkarni and Rajendra Ingavale, Nishikant Salvekar and Sardar Shaikh.

The outgoing president Nishikant Bhingarde presented the activities carried out during his tenure.

Kedar Patki guided the Sub-chapter on future activities. Hemant Bhandare exhorted the team to enhance the performance in the coming year. Bharat Kadam, the incoming president, outlined his plans for the year.



Hemant Bhandare administers the oath to President Bharat Kadam



CWC for 2017-18

Raipur Sub-chapter

The Installation ceremony of Raipur Sub-chapter was held on April 8 at Hotel Royale Ambience in the presence of Utpal Biswas, Regional Director - East. The oath of office was administered to Pratik Khandelwal (President), Chunendra Khangar (President-elect), Rajesh Sahu (Secretary), Vikram Choudhary (Treasurer) and other CWC Members. RD also conducted an orientation program for the CWC team.



Raipur CWC members pose for a group photo

The outgoing President Nishesh Khare presented the activities carried out during his tenure, and gave appreciation awards to his team members. The incoming President presented his theme for the year, 'Right Air-Conditioning to Right Place'. Technical talks and presentations on this theme are planned in cities and towns of Chhattisgarh, Odisha, Jharkhand and West Bengal during the year.

The Youth and Women teams were called on the dais and motivated.

Senior members who served the air conditioning industry in Chhattisgarh during the past several decades were honoured. Birthdays of Utpal Biswas and Pratik Khandelwal were celebrated during the function.

Guwahati Sub-chapter

The CWC installation ceremony of Guwahati Sub-chapter was held at Hotel Atithi on April 1. A. Goswami, PP, gave the welcome address. The guests were felicitated by S. Senapati (CWC member). Utpal Biswas, Regional Director (East) was the Chief Guest. The event was partnered by Crystal Air Systems represented by K. P. Singh, Vice President (Operations & Marketing) and Rajiv Mathur, Director (Sales). The annual report of 2016-17 was presented by Prof. P. Muthukumar, the outgoing President.

Gautam Bannerjee was administered the oath as President, Vipin Kumar Nanda as Vice President, Santosh Kumar Pandey as Secretary and R. Nithin Narmada as Treasurer, along with other CWC members.

Gautam Bannerjee motivated the members to build upon the last year's accomplishments, and thanked Kolkata Chapter for its constant support. This was followed by the launch of Youth@ISHRAE. R. Nithin Narmada, Youth Chair, outlined the opportunities for the members. Utpal Biswas, committed continuous support from Kolkata Chapter as well as HQ.

Vizag Chapter

K.V. Subbaiah was installed as the President of Visakhapatnam Chapter for 2017-18.



Visakhapatnam team takes the oath

The outgoing President B. Madhu welcomed the participants and gave a report of last year's performance.

Ramachandra Raju of Deccan Engineers, Hyderabad made a product presentation on K-Flex. Later, a presentation on Tunnel Ventilation was made.

The incoming President apprised the gathering of his plans for the new year, and inducted 10 new members. Sirisha M. joined the chapter as the first woman member.

Past Presidents Leela Prasad, Kumar Raja, Gurunadh and Subramainam were present along with other members and guests.

K-12 ACTIVITIES

Chennai Conducts Drawing Competition on Water and Power Savings

Chennai Chapter conducted a drawing competition as part of its K-12 activity on April 16 at TVH Lumbini Square.



Children display their drawings



K-12 committee members with children

The competition, on the theme of water and power savings, had 40 participants.

Guwahati Holds Drawing Competition

On March 9, Guwahati Sub-chapter organized a K-12 event at North Guwahati Girl's High School. The event started with a drawing competition on the topic 'Green Earth'. Students from class VI to X participated. It was followed by a short seminar about the need for protecting the environment, role of students, and opportunities presented by ISHRAE for their future.

The prize distribution ceremony was held on March 29. The prizes were presented by Prof. P. Muthukumar, Amarendra Goswami and Srikanta Senapati.



Prizes being awarded to students

Career Guidance Program by Kalpakkam Sub-chapter

A career guidance program was organised by Kalpakkam Sub-chapter in association with Alumni Association of K.V.-2, Kalpakkam through Cognizant Outreach on April 22. Around 40 students from Class X attended the programme.

The sessions were conducted by volunteers of CTS Outreach Career Guidance Program, Parthasarathy Soundarajan and Sudarsan, Director-Projects (CTS).

ISHRAE Kalpakkam sponsored snacks for the children.

Raipur Sub-chapter Holds K-12 Program

Raipur Sub-chapter's first K-12 program for 2017-18 was held at Mahakaushal Kala Vithika on World Earth Day (April 22). It was jointly organized by Lions Club, Sewa Welfare Foundation and Mahakaushal Kala Parishad. Raipur Sub-chapter Treasurer Vikram Choudhari, Youth Chair Brijesh Sanodiya, K-12 Program Chair Dr. Meenakshi Rathore and K.K. Verma were present. J.S. Thakur (President, Lions Club), Rajesh Saxena (Regional Chairman, Lions Club) and Dr. Praveen Sharma (Director, Mahakaushal Kala Parishad) were also present. Sunila Agrawal (ISHRAE family and Member of Van-Bandhu Society), Jyoti Khare (ISHRAE family) and parents of participants were also present.

There was a painting competition on the theme 'Save Earth'. About 70 students from different schools participated. Renowned artists of Chhattisgarh, Avtar Singh Bhangal and Arvind Yadu, judged the paintings. Winners received certificates and gifts. Earthen pots and snacks were distributed to all the participants and their parents.

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 May-June issue, the deadline is June 30.
- Please send or copy reports of events to 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.

NATIONAL PROGRAM

Ranchi Holds EEHVACR 2016-17

Ranchi Chapter, jointly with Institution of Engineers (India) (IEI), organized a one-and-a-half day National Seminar on the theme 'Energy Efficiency in HVAC&R Industry' at Engineer Bhawan on March 25-26 under the banner of EEHVACR 2016-17.

The seminar witnessed eminent speakers from industries, consultants and manufacturers sharing their experiences and research findings. Table partners showcased their products. The program was attended by about 100 delegates consisting of ISHRAE members, IEI, company delegates, invitees, manufacturers and presenters.



Chapter President R. K. Singh makes the welcome speech



Subhasish Dasgupta delivers the keynote address

Orientation and Technical Talk at CVRCE Bhubaneswar

Kolkata Chapter organised an orientation program for the student chapter of C. V. Raman College of Engineering, Bhubaneswar on March 8, followed by a technical talk.

Dr. Sachindra Kumar Rout, professor in-charge of the Student Chapter, began the program with a welcome speech. Gunjan Kumar explained the job opportunities in the HVAC market, and the role of ISHRAE and student members. He shared his views and goals for the student chapter as well as Kolkata Chapter. Prabir Kumar Sen, Senior



Prabir Kumar Sen addresses the students

ISHRAE member; Prof. Saikat Chatarjee, HOD – Mechanical; Prof. N. S. Das and other faculty members of CVRCE were present. About 200 student members attended the event.

Prabir Kumar Sen delivered his lecture on 'Cooling Load Calculation' in the afternoon session.

Lecture Program at NIT Agartala

Mechanical Engineering Department of National Institute of Technology, Agartala in association with ISHRAE Kolkata Chapter organised a lecture program on 'Heat Load



A view of NIT Agartala campus

WOMEN IN ISHRAE

Networking Meet at Ahmedabad

Ahmedabad Chapter, in a dedicated effort to promote involvement of women in the HVAC&R industry, organized its first ever Women in ISHRAE networking meet in Ahmedabad. More than 20 women members attended the meet from the fields of air conditioning, architecture, insulation, ducting and manufacturing. The meet was attended by Hetal Brambhath (ex-Hitachi) and Gauri Parikh (Gray Parikh Architects), who motivated the attendees by sharing their experience of working in a technical male-dominated industry for so many years. Hetal Brambhath dwelt upon women empowerment and shattering the glass ceiling for women in India, while Gauri Parikh talked about the similarities and contrasts of leading architectural projects in India and London.

Two young women entrepreneurs, Aditi Shah and Dhvani Mehta, initiated the event. Aditi Shah is the



Participants in the Women in ISHRAE meet

zonal chair for leading and promoting activities related to Women in ISHRAE in Western India. A lot of new ideas were shared and promoted during the meet, with a big take-away being 'Be human, not a woman. If you identify yourself as a human first, the society will identify you as a human, not a man or a woman. Irrespective of the gender, to succeed, you need confidence; and to be confident, you need to arm yourself with knowledge'.

ADVOCACY

Advocacy on Water and Power Saving in Chennai

Chennai Advocacy team conducted an interactive session on Water and Power Conservation on April 16 at TVH Lumbini Square. It was attended by over 40 members including parents and children. The program created awareness of the subject, and children actively participated and talked about water and power management and the importance of energy savings in our day to day life.



Chapter President Seshadri interacts with participants



A child speaks about water and power management

Kolkata Chapter Supports Innovación 2017

Institute of Engineering & Management (IEM) Kolkata, in association with ISHRAE Kolkata Chapter, organised its 8th annual Techno-Management festival Innovación 2017 on March 5 and 6. It featured several innovative models, robotics competitions, coding events, guest lectures, workshops and other events.

Thanks to the efforts of a group of students, professors, scholars and sponsors (including ISHRAE Kolkata Chapter), Innovación has emerged as one



Utpal Biswas (extreme left) shares the dais with Dr. Amlan Kusum Nayak (Principal, IEM), Prof. Ajoy Kumar Ray (Director, IEST Shibpur) and others

of the largest such fests in Kolkata. Students from all over India and several parts of the world showcase their talents and technical skills here. It also witnessed lectures of scholars from reputed educational organisations and industries. A footfall of 6,000 students was recorded this year.

Tathagata Roy, Governor, Tripura; Padmashree Dr. Ajay Ray, Director, IEST Shibpur; Debashis Sen, Additional Chief Secretary to Govt. of West Bengal and Chairman WBHIDCO, Nabadiganta and NKDA; Dr. Subrata Dey, Pro-Vice Chancellor, MAKAUT; Dr. Satyajit Chakrabarti, Chancellor, UEM Kolkata; Prof. Dr. S. Chakrabarti, Director, IEM; industry delegates and other distinguished professors from various reputed institutes were some of the guests.

Chapter President Utpal Biswas addressed the students on the future of the industry and application of innovative ideas.

Utpal Biswas talked about the platform provided by ISHRAE to innovative projects under ISHRAE Students' Project Grants (ISPG). He congratulated the IEM team who bagged a grant of Rs. 40,000 for their project on Underground Cold Storage. The team members include Arnab Gupta, Dyuman Das, Riazul Hoque and Rohan Lal Kshetry, students of third year Mechanical Engineering.

He was also a guest judge for the model making competition, as the brightest student minds of the city showcased their innovations in several fields related to HVAC&R.

STUDENT ACTIVITIES

'Calculation in Air Conditioning System' and 'Cold Stores for Fruits and Vegetables' on March 4. NIT Agartala and Techno India Tripura participated in the program.

Prabir Kumar Sen was the faculty for both the topics. In the first session, he explained heat gain through building envelop and fenestration, heat gain from lighting, equipment, occupants, ventilation air and system heat gain, along with selection of outdoor and indoor design conditions, U factor, SHGF, shading factor, TETD, bypass factor, etc. Reference was made to various codes and standards for selection of these parameters. Calculation of coil TR and dehumidified cfm was also discussed. A sample excel sheet for heat load calculation of a live project was displayed to give the feel of a real life situation.

The second session began with India's position on the world fruit and vegetables production map, and wastage because of poor infrastructure in post-harvest management. A flow diagram with dos and

don'ts of post-harvest management was discussed. Various facilities like cold store, CA store, MA packaging and IQF for enhancing shelf life were explained. The cold chain for fruit and vegetables was also discussed.

Workshop on Basics of Photography by Kolkata Chapter

Sudip Das (Manager – Sanitary Syndicate Pvt. Ltd.) conducted a workshop titled 'The First Click' on basics of photography. It covered the camera, light source, exposure and composition.

There were about 25 attendees.



Sudip Das explains the basics of photography

Promotional Activity for Jaipur Student Chapter

Jaipur Chapter organized a promotional activity for its new student chapter on March 16 at PGI, Sitapura.



Akash Vajpai addresses the students

The occasion witnessed the presence of Akash Vajpai, Tapan Basu Roy, Pramod Dubey and Peekay Anand along with students and faculty members of PGI. Akash Vajpai delivered a lecture on opportunities for students in HVAC&R industry. He explained the history of ISHRAE, its student chapters, benefits of a student chapter and its activities. He also explained ISHRAE Job Junction.

Ashwini Kapoor proposed the vote of thanks. More than 70 students attended the program.

National Seminar at Poornima University

Poornima group of colleges organised a national seminar on 'Recent Developments in Energy and Environment' on April 4 at its campus at Sitapura. The event was supported by ISHRAE. The objective was to make the students aware of ISHRAE, and introduce them to building energy efficiency. From ISHRAE, Akash Vajpai spoke on 'Environmental Awareness through Energy Efficient Buildings'. He also spoke about ISHRAE and its initiatives like ICP, IEE and IJ. Ashwini Kapoor proposed the vote of thanks. More than 150 students attended the seminar.

COOL HUMOUR

Wife: it is so hot!

Husband: Put on the air conditioner.

Wife: If you want to put on the air conditioner, we need air shampoo first, right? Do we have it?

Husband: ????????????

(Contributed by: Renee Sundaram from Sydney – granddaughter of Dr. Sukumar Devotta, Chairman, ISHRAE Refrigerant Committee)

PROGRAMS

Delhi Chapter Organises Workshop on District Cooling

Delhi Chapter of ISHRAE and ISHRAE Institute of Excellence jointly organised a technical workshop on district cooling on April 29. The topic has assumed importance in the context of plans for building 100 smart cities.

P. K. Goel and Sandeep Dahiya comprised the faculty. Their experience on district cooling in the Middle East made it a rich learning session for the participants.

Soft Skills Session for Technicians in Chennai

Chennai Chapter conducted a session on soft skills for technicians at Feathers on April 15. Stephen Chinnaswamy was the faculty.



Stephen Chinnaswamy addresses technicians

The interactive program was attended by over 40 technicians. The take-aways for the participants were self-belief and pride in one's role and responsibilities.

Heat Load Calculation Workshop in Chennai

Chennai Chapter organised a workshop on heat load calculation at the Chennai office training room on April 22. Balaji was the faculty. The workshop was attended by 44 members



Trainer Balaji interacting with the delegates

The topics covered were basic construction and the theory behind calculation of head load, and practical design with live working sheets. There was a Q&A session at the end.

Chennai Holds Session on Integration of District Cooling in Smart City

Annaraj Ponpandi conducted a session on April 22 at the Chennai Chapter board room. It was attended by more than 25 members including senior consultants and past presidents.



Annaraj Ponpandi makes a presentation

The session used practical data from the GIFT City project for discussing the basics of district cooling design.

Presentation by Crystal Air Systems at Guwahati

On April 1, Crystal Air Systems, along with Guwahati Sub-chapter, organized a product presentation at Hotel Atithi. A large



A view of the audience

number of researchers, industrialists and marketing professionals from various firms were present.

The presentation started with a brief introduction of ISHRAE and its mission, activities, achievements and contributions towards HVAC&R and supporting service industries. The presentation was targeted at prospective as well as newly joined members. This was followed by a brief overview of the history of Crystal Air Systems, presented by K. P. Singh, Vice President (Operations & Marketing) along with an audio-visual on their achievements. Rajiv Mathur, Director (Sales) made a detailed presentation on their products in the field of air handling and distribution – ceiling suspended, horizontal floor mounted, unitary vertical and cassette air handling units.

The vote of thanks was proposed by Gautam Bannerjee, President 2017-18, Guwahati Sub-chapter.

Kalpakkam Holds Technical Talk

The first technical talk of Kalpakkam Sub-chapter for 2017-18 was held on April 19 at IGCAR. About 45 staff members including members of the Sub-chapter, HVAC professionals and staff members of DAE units at Kalpakkam attended the session.

E. Mohanraj, Sub-chapter President, introduced the Speaker B. Sankaranarayana, RD South - 2. The talk underlined the importance of underground metro rail systems in serving the commuting requirements of the increasing population of metro cities. In case of a fire emergency, smoke kills more people than the fire itself. Proper design of tunnel ventilation systems as per NFPA standards addresses this need as well as the removal of heat produced by the train air conditioning and braking systems.

M. Deenadhayalan, Sub-chapter Secretary, delivered the vote of thanks.

Mumbai Holds Product Presentations

Mumbai Chapter organised two product presentations at The Orchid on April 21: Haier and Valve Tech Industries (VTI).

Debajit Sen made a presentation on commercial air conditioning products from Haier. After a brief history of the company, he described the product line up including MRV (variable refrigerant flow) with full inverter technology, chillers including those with oil free centrifugal compressors, control solutions and unitary products.

Sudhir Bhandare was the speaker from VTI. He described the complete range of valves for HVAC segment. IPP Nandlal Singh proposed the vote of thanks.



Debajit Sen presents Haier products



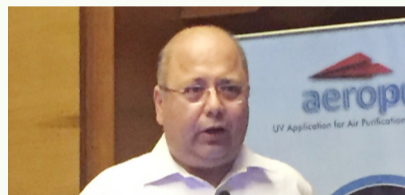
Sudhir Bhandare introduces VTI valves

Seminar on IAQ in Mumbai

ISHRAE Mumbai and Thane Chapters supported a seminar on 'Thermal Displacement Ventilation and Indoor Air Quality' organised by ASHRAE Mumbai Chapter on March 18 at VITS Hotel. IAEMP and IAQA were the supporting societies, while the event partners were Pureair by Zeco, Aeropure and AHRI.



Dr. Andrey Livchak speaks on thermal displacement ventilation



Suhel Parker enumerates strategies to improve IAQ

ASHRAE distinguished lecturer Dr. Andrey Livchak took a session on 'Fundamentals of Thermal Displacement Ventilation', and another on 'Energy Efficient Solutions for Commercial Kitchen Ventilation'. Suhel Parker (Director, EPSCO) spoke on 'Strategies to Improve Indoor Air Quality'. Mahesh Prabhu made an impromptu presentation on 'Legionella Control in Cooling Water Systems'.

Product presentations were made by Dr. Avinash Kulkarni on Aeropure, Siddharth Jain on Pureair and Vikram Murthy on AHRI. Richie Mittal, President, IAQA India Chapter, introduced the members to IAQA.

Tech Talk on Building Automation in Thane

ASHRAE Mumbai Chapter, along with ISHRAE Mumbai and Thane Chapters, organised a tech talk on 'Building Automation Planning and Futuristic Trends' on April 7 at Hotel Satkar Grande. ASHRAE distinguished lecturer Jim Vallort was the faculty. The event was attended by 80 delegates.

Jim Vallort is a Senior Vice President with ESD headquartered in Chicago, USA, a consulting engineering firm.

Tech Talk on Rain Water Harvesting in Mumbai

ISHRAE Mumbai Chapter, ASHRAE Mumbai Chapter and IAEMP celebrated World Earth Week with tree plantations in schools and colleges, culminating in a tech talk on rain water harvesting on April 28 at ISHRAE Mumbai Chapter Office. Maillkarjun Kambalyal, an eminent energy and environmental conservationist, delivered the talk. He is the CEO of Sunshubh Renewables and Research Centre.

The talk underlined the strained water resources and the important role that rain water management can play. Water conservation and rain water management can yield substantial savings in energy consumption too.

Smart Energy Training in Mumbai

Mumbai Chapter conducted a learning session on Smart Energy software on April

15 at the Chapter office. It was attended by 20 delegates.

The topic was covered by Mihir Shah, CEO, Halston Software, Mumbai Area, India Computer Software and Vikram Murthy, Director, Univac Environment Systems Pvt. Ltd.

Presentation on Next Gen Insulation in Mumbai

Mumbai Chapter organised a product presentation on 'EcoTouch – Next Generation Fiberglass Insulation' on April 5 at Hotel Mirador. It was attended by over 180 delegates. Nilesch Sonawane, Owens Corning India, was the speaker.

Raipur Organises Presentation by Denco Happels

A product presentation on 'Innovative Technologies in Air Conditioning' by Denco Happel Flaktwoods Group was organised by Raipur Sub-chapter on April 8. Nitin Sharma was the speaker.



Nitin Sharma addresses the audience

About 70 People attended the event.

Chennai Holds Program on Variable Speed Drives

Chennai Chapter organised a program on 'Variable Speed Drives and its Applications' on March 4 at Chennai Chapter classroom. The speaker was Ramesh Pandurangan. The program was attended by 13 participants including members, non-members and student members.



Ramesh Pandurangan explains VSDs

The topics covered included basic introduction of VSDs, the need for speed control and induction motor basics, drive architecture and internal blocks, drive control methodology and field connectivity, and VSD applications and benefits.

FELLOWSHIP



Families enjoy holi milan

Raipur Sub-chapter conducted holi milan and family get-together at March 18 at Shukla Kitchen.

President Nishesh Khare, Secretary Pratik Khandelwal, Treasurer Rajesh Sahu, Past President Anil Shukla, Marketing Chair Vikram Chowdhari, K-12 Program Chair Dr. Meenakshi Rathore, Student Chapter President Akshya, Membership Chair Dilip Mahobe and several members were present. The highlights of the event were live music, dance, games and dinner.