

SAD DEMISE



B. S. Ramesh

As we go to the press, we are deeply saddened at the untimely demise of B. S. Ramesh, President 2018-19 of Mysore Chapter, on July 15.

We pray for everlasting peace to his departed soul, and for his bereaved family to bear the tragedy with fortitude.

Call for Papers – Asian Conference on Indoor Environmental Quality

ISHRAE, in collaboration with Society for Indoor Environment (SIE) and Indoor Air Quality Association – India Chapter (IAQA), has announced the first edition of Asian Conference on Indoor Environmental Quality. The conference is scheduled for February 1-2, 2019 at Indian Institute of Technology Delhi. The conference is an initiative to reach out and share resources towards better indoor environment. The conference theme is entitled *Habitable Built Environment – Experience the Unseen*.

The conference will blend participants from academic institutes in India and the rest of the world, prominent research institutes, non-government and government organisations with industry practitioners responsible for the deployment of research findings in the field of indoor air quality and are a major channel to provide feed-forward for future research as well.

The last date for submission of abstracts is July 20. For more information regarding ACIEQ 2019 conference, visit www.acieq.org

Excerpts from President's Message



President C. Subramaniam

Greetings to all ISHRAE members!

Our journey during the last three months of Society Year 2018-19 has been pretty exciting. Chapters and Sub-chapters at 42 locations across the country have got the new Chapter Working Committee (CWC) teams in place, and the Standing and Apex Committees that support the various activities of ISHRAE have charted the plans for the year. All these actions are aimed at providing the 25,000 plus member community in particular and the HVAC&R industry at large a focused attention on meeting their expectations from ISHRAE.

In line with the theme of the year, i.e., *STAR – Sustain, Technical Excellence, Advocacy and Research* – we kick-started the year drawing up plans for execution as well as defining our goals for the next five years.

Sustain

We have ensured that the initiatives that have been taken up in the past years are continued with greater strength and momentum. An ad-hoc committee is in place to draw the *ISHRAE Strategic Vision 2025*.

Technical Excellence

The Programs team has planned to conduct good quality technical programs on diverse topics at various locations across the country. Also, a host of National and International level technical programs, workshops and conferences have been planned. ISHRAE's flagship technical seminar – Urjavran – in addition to being held in almost 25 locations within the country, is going to be held overseas in Nepal, Bangladesh and Sri Lanka as well.

Various *ISHRAE Technical Groups* (ITGs) are in place with the objective of enhancing the technical content and deliverables to members. This has drawn huge support from the member fraternity and so many members have volunteered to be part of these ITGs. We welcome more members to join.

In the area of education and training, our flagship programs *ISHRAE Certified Professional* (ICP) in the areas of Service, Cleanroom and AC Design have been lined up at multiple locations during the current year. Work is underway to get a host of new ICP courses rolling out – for example *Drafting, Commissioning, Refrigeration, Building Automation Systems and Health-Care*. Also, the four month *Advanced Engineering Diploma Course* (AEDC) is running its current editions in Bangalore, Delhi and Bhubaneswar. We are glad to inform you that students from these courses are being fully absorbed by the industry.

We have launched Skill Development Programs in the area of unitary systems training for service personnel in eight locations.

Various programs are being planned for the 12,000 plus student members in the form of *industrial visits, quizzes, technical talks, paper presentations, ISHRAE Student Project Grants, National Student Design Competition, ISHRAE Job Junction, Equipment Showcases* at select locations, etc.

Advocacy

We had a great start for advocacy in this Society Year. Our dear friends from China Association of Refrigeration invited us to be part of their CR2018 in Beijing and we had an excellent meeting with them during which they extended full support to ISHRAE's ACREX and RefCold events and various other initiatives. ISHRAE was well received by REHVA, the Federation of European Heating, Ventilating and Air-conditioning Associations, for their annual meetings and awards.

AICTE- ISHRAE Faculty Development Programs are being held in AICTE approved locations in Bangalore, Guwahati and Chandigarh.

Continuous interaction is happening with various associate societies such as RAMA, AIACRA, RATA, IAQA, AAR, FSAI, GBCI, AWESOME, IoR, REHVA, ASHRAE, SHASE, IGBC, ASSOCHAM, BEE, BIS, MoEFCC, UNEP, IAPMO, IFMA, SAREK, TTMD, CREDAI and a number of others to host joint technical sessions, seminars and other activities. This is an important area where ISHRAE has made a huge impact.

Research

ISHRAE has identified research as a very important dimension of growth, is completing the research projects that were launched in the previous years and has also launched new areas of research. This is being carried out with the support of the academia, and premier universities and institutions like IIT Madras, MNIT Jaipur, College of Engineering – Guindy and Pune, IIT Kharagpur, CEPT Ahmedabad and many more. We have had discussions with DST and SERB and are working closely with them on mutually funded projects that have industry relevance and application. We thank the industry and individuals who are supporting these research activities.

RefCold

It gives us pleasure to inform you that ISHRAE is organising RefCold India 2018 – India's first International Exhibition and Conference on Cold Chain, Industrial Refrigeration and Reefer Transportation – on November 22-24 at Ahmedabad. The event will cover all sections of the refrigeration and cold chain industry and bring all the stakeholders together under one roof. It will also provide a platform to the global investment community to connect with stakeholders in the refrigeration and cold chain sectors in India. We are working closely with UNEP and various ministries connected with this sector.

ACREX

All preparations are underway for our flagship event ACREX India 2019, which will also host a string of workshops and seminars. It will bring together exhibitors from domestic as well as international markets.

Youth and Women

The strength of Youth@ISHRAE and Women@ISHRAE is ever increasing in numbers and they support the multi-level activities happening at various Chapters and Sub-chapters as well as the various initiatives taken at HQ level.

All this is possible only because of our great force of volunteers in ISHRAE who are tirelessly spending their valuable time and energy for the betterment of the Society, and I salute them from the core of my heart. We welcome more members to come forward and join in this *Journey towards Excellence*.

Please stay connected at www.ishrae.in. Thank you, and best wishes for a great Society Year!

Let's all be proud of being ISHRAE members and make ISHRAE proud of all of us.



First NBoG Meet Held in Hyderabad

The first meeting of the National Board of Governors for the Society Year 2018-19 was held at Mrugvani Resort, Hyderabad from June 28 to 30.



NBoG members at its first meeting in Hyderabad

Advocacy

ISHRAE Partners GRIHA Summit in Mumbai

The 8th Regional Summit of Green Rating for Integrated Habitat Assessment (GRIHA) was held at Courtyard by Marriott, Mumbai on June 28-29 with the theme *Choosing Sustainable, Building Sustainable*. The Summit was organised by GRIHA, TERI, Sustainability Initiatives and Maharashtra PWD. ISHRAE, ASHRAE Mumbai Chapter, Building Association of India, All India Association of Industries and Smart Cities Council India were the Concept Partners.



Ar. Sangeet Sharma

The first session, chaired by Sanjay Seth, was on the subject 'Connecting the Outside to India'. It was addressed by Sudhir Paliwal (Expert Member, Maharashtra State Fly Ash Council), Ar. Rajan Rawal (Executive Director, CARBSE, Ahmedabad) and Isaac Emmanuel (Head – Industrial Marketing & Advocacy, Polyurethanes at Covestro India).



Sanjay Seth



Anagha Paranjape-Purohit

Sanjay Seth, CEO, GRIHA Council, welcomed the delegates. Anagha Paranjape-Purohit from Sustainability Initiatives made a brief address.

The keynote address was delivered by Ar. Sangeet Sharma of SD Sharma & Associates on the theme 'The Value of GRIHA – an Approach to Passive Architectural Design'.



Ar. Rajan Rawal



Nidhi Gupta

The next session was on 'Low Energy Materials for Interiors'. It was addressed by Harish Borah (ADW Developments Ltd. – London and New Delhi), Nidhi Gupta (Sustainability Consultant, Auroville Consulting, Auroville) and Tushar Kant (Amravati).

A session on 'Innovations and Entrepreneurship' followed, addressed by Abhijeet Gawade (Head – Business Development, Godrej Construction) who spoke about recycled concrete blocks and pavers, Shreedhar Pandya (Sustainability Adviser, DNP Infrastructures Pvt. Ltd.) and Mahesh Gangaramani (Perfect Infraengineers Ltd.) who introduced Suntrac thermal hybrid panel.

The first session on Day 2 was on 'Improving Energy Efficiency in Green Buildings'. It was addressed by Jayesh Vira (MD at Enviro Consultancy Pvt. Ltd.) and Amol Desai (GM – Business Development at Supreme Petrochem Ltd.).



Jayesh Vira

'Significance of Materials for Indoor Environmental Quality' was the theme of the next session. The speakers were Sanjeev Karpe (MD at Native Konbac Pvt. Ltd.) who explored bamboo as a construction material, and Pradeep Joshi (Green Build Products, Pune) who spoke on waterless construction. Atul Chavan (Superintendent Engineer, PWD,

Aurangabad) spoke about PWD's Role in Green Buildings. A presentation was made by Abhinav Gupta (Co-founder and Director, Active Buildings).

GRIHA has developed a guidance-cum-training tool for small stand-alone buildings, called SVARGRIHA. The tool was demonstrated in the afternoon session by Gautam Aswani, Senior Project Officer, GRIHA Council.

The valedictory address was delivered by Sandeep Patil, Chief Engineer, PWD, Maharashtra.

Guidelines for Reports in eNews

- 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
- Please send a Word file containing a brief report of the event: **what, when, where, who** and any other relevant information. **Pdf and ppt files must be avoided.**
- 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 program, 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 on the Word file at relevant places, with captions below each photo.
- **News related to student and K12 activities may be sent to** youth@ishraehq.in and v.thakur@ishraehq.in respectively, for publication in *Student Connect* and *K12 Activity Newsletter*.

Mumbai Chapter

organised tree plantation on the occasion of World Environment Day on June 5 at Sardar Patel College of Engineering, with the objective of creating environmental awareness. The event was attended by students, faculty members, Mumbai CWC Members and others.

Bangalore Chapter

held a joint seminar in association with IAEMP at KEB Engineers Silver Jubilee Bhavan, Bangalore on June 23, as a part of advocacy to promote ISHRAE at various levels. There were discussions on ECBC Codes-2017 and ECBC Rules-2018. About 87 people attended.



Joint ISHRAE-IAEMP session in progress

Women@ISHRAE

Thane Chapter organised a half day session on June 2 on *Earthing and AC Drives for Women@ISHRAE*, conducted by Vinay Rai and Pankaj Shah – senior faculty at L&T – at the L&T campus.



Vinay Rai addresses Women@ISHRAE Thane at L&T campus

Bangalore Chapter conducted a program on *Refrigerant and Safety for Women@ISHRAE* on May 5, to impart basic safety knowledge to women members. There were about 15 participants. The program covered guidance on the safe storage and handling of refrigerant cylinders.



Narendran S. explains safety aspects of gas cylinders

Narendran S., Deputy Manager – AMC Marketing at Conquer Cool Breeze – who is pursuing a PhD in

Neural Science from VTU, Belgaum, was the speaker. The safety training included Dos and Don'ts in the presence of refrigerants, their handling manuals, gas safety measures, flash back arrestor, cylinder colour coding, Six Mantras for Safety (SMS), and compressor blasts and ways to prevent them.

Jaipur Chapter of Women@ISHRAE conducted a session on *Energy Saving & Safety Measures in Home Appliances* at Bright Future TT College on March 24. It was coordinated by Rati Khandelwal, Woman Chair, Jaipur Chapter. The key speaker was Dr. Jyotirmay Mathur from MNIT Jaipur. There were around 50 people in the audience including housewives, college staff and students.



Dr. Jyotirmay Mathur speaks about energy saving and safety

Dr. Mathur spoke about selection, operation and maintenance of home appliances like ACs, refrigerators and gas burners in order to save energy.

President R.S. Saxena and past president Tapan Basu Roy were present, along with other CWC members.

Bangalore Chapter conducted an industrial visit to Schneider Electric Drive Factory at Attibele for Women@ISHRAE on June 22. Guruprasad Raju

– Marketing Manager at Schneider accompanied the group. The event was attended by 22 women members from renowned HVAC industrial organisations.



Women's team visits Schneider factory

Bangalore Chapter organised a technical talk on *Basics of VFD for HVAC Applications* on June 22 for Women@ISHRAE. The speakers were Chahat Singla and Guruprasad Raju. The program was conducted at Schneider Electric Global R&D, Attibele, Bangalore. It was attended by 22 delegates from renowned HVAC industrial organisations.



Women's team attends talk on Basics of VFD

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.



eNews wishes both the publications a huge success in their endeavors. 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

ISHRAE Certification Program

Mumbai Chapter has planned the following ICP courses in 2018-19:

Cleanroom	November 14 to 17
AC Design	Module 1: September 5 to 8
	Module 2: October 11 to 13
	Module 3: November 29 to December 1
AC Service	Module 1: October 19-20
	Module 2: November 2-3

Bangalore Chapter organised ICP-AC Service Level-1 (Module-1) on June 13-14 at IBC Office, Koramangala. The program was conducted by Madhukar. A total of 22 delegates from renowned HVAC industrial organisations attended.



Madhukar conducts Module 1 of ICP-AC Service

Bangalore Chapter conducted ICP-AC Service Level-1 (Module-2) on June 27-28 at IBC Office, Koramangala. The faculty was Rakesh Sahay. A total of 22 delegates from renowned HVAC industrial organisations attended.



Rakesh Sahay addresses the delegates

News in Brief

HQ organised a webinar on May 15 on the topic 'Does Inverter Refrigeration Exist?' by Parth Thakkar, Director, Polfrost Aircon.

Bangalore Chapter hosted a product presentation by K-Flex India Pvt Ltd on June 23.



Product presentation by K-Flex

The program was conducted at Chalukya Hotel. It was attended by more than 81 participants, including members of ISHRAE and ASHRAE Bangalore Chapter.

IIE Delhi and Delhi Chapter of ISHRAE organised a Technical Talk on *Pumps and Beyond* on June 22 by Robin Chauhan – Managing Director, Heavens Engineers, who has experience of more than a decade in pumps, water and waste water equipment and treatment plants.

Bangalore Chapter conducted a Skill Development Workshop on June 20-21 at the Chapter office in Koramangala.



Madhukar conducts Skill Development Workshop

The program was attended by 29 delegates.

Mumbai Chapter supported RATA's session on MSME Products, Schemes and Loan Against GST Returns on June 22. It was an interactive session with Bank of Baroda.

Bangalore Chapter conducted a Technical Talk on Under Floor Air Distribution Systems on June 22. The speaker was Kevin Pedrigi.



Kevin Pedrigi talks about UFAD

The program was conducted at Hotel Chalukya, and was attended by more than 76 delegates.

Mumbai Chapter organised a Tech Talk on *Good Practices – Electrical System Planning and Design* on June 29. The speaker was Anjali Prabhu, an experienced professional in the field of planning and design of electro-mechanical services for various types of buildings, and an IGBC-Accredited Professional and Corporate member of Institute of Engineers (India).

Bangalore Kicks off AEDC 2018

The inauguration ceremony of the third edition of the four-month Advanced Engineering Diploma Course (AEDC) was held at Bangalore Chapter office on July 4 by Chief Guests C. Subramaniam, S.V. Venkatachalam and S. Elangovan.



S. Elangovan – President Bangalore Chapter – and C. Subramaniam – National President – light the lamp to begin the AEDC course

There are 25 candidates participating in the four-month course.

ISHRAE Mumbai Chapter along with ASHRAE Mumbai Chapter arranged a technical talk on *Construction Safety Management* on June 15. The speaker was Sujoy Mitra, who is working as MEP Head, Residential Building and Factories Division (East and West) at L&T.

ISHRAE Institute of Excellence and DCI organised a technical workshop on *Hourly Analyses Programme (HAP)* on June 30 for ISHRAE and ASHRAE members and HVAC professionals. HAP is a software designed for consulting engineers, design-build contractors, HVAC contractors, facility engineers and other professionals involved in the design and analysis of HVAC systems in commercial buildings. The trainer was Shiv Batra, an expert faculty and master trainer for LEED® AP and GRIHA, presently working with IBM India.

ISHRAE Mumbai Chapter along with **ASHRAE Mumbai Chapter** held a tech talk on *From Didactic to Interactive* on June 22. The faculty was Surendra Shah, an 85 year old Mechanical Engineer with a degree from Clemson University, USA in 1961. During his career span of over 50 years, he has a large number of major HVAC projects to his credit.



Surendra Shah delivers his address

Mumbai Chapter arranged a technical and product presentation by Brentwood Industries India Pvt. Ltd on June 1. The technical presentation covered Importance of *Proper Fill Selection for Long Term Cooling Tower Performance*, followed by a presentation on the company's products. The presentations were made by Shrivankumar Misra, Director of Business Development (India and Middle East) at Brentwood Industries.



Shrivankumar Misra talks about cooling tower performance

Bangalore Chapter conducted a technical talk on *HVAC Design Considerations for an Art Gallery* on June 19. The speaker was Arun R.



Arun R. delivers his talk

The program was conducted at the office of Bangalore Chapter, Koramangala. It was attended by more than 25 delegates.

Mumbai Chapter organised a technical and product presentation by Beckhoff Automation Pvt. Ltd. at The Orchid on June 8. The technical presentation was on *Integrated Building Automation Solutions*, followed by a presentation on the company's product portfolio.



Presentation by Beckhoff

The speaker was Frank Schubert, who works in Marketing and Training at Beckhoff.

Mumbai Chapter arranged a technical talk on *Radiant Cooling Systems* on May 25 by HVAC Consultant Shrikant Kaduskar, a Mechanical Engineer from MS University of Baroda and General MBA from University of Hull, UK with 32 years of experience in India and the Middle East.

Mumbai Chapter organised a technical talk on *Lighting* by Nandlal R. Singh on May 11. The speaker, a Past President of the chapter, has more than 27 years of experience in India and the Middle East, and is currently General Manager and Head – Engineering Services with Tata Realty and Infrastructure Ltd.

Mumbai Chapter held a two-day learning session on *eQuest Energy Simulation Software* on May 18-19 by Ruju Rathod, a Masters from Carnegie Mellon University, Pittsburgh, a practicing architect and sustainable design analyst specialising in green buildings and energy modelling at her own green building consultancy, ECOLOGYC.

Mumbai Chapter arranged a tech talk on *Writing Data Point Summary* on May 4 by Bhartesh Jamdade, who has 25 years' experience in the field of Life Safety, Security and Building Automation.