

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

SAD DEMISE



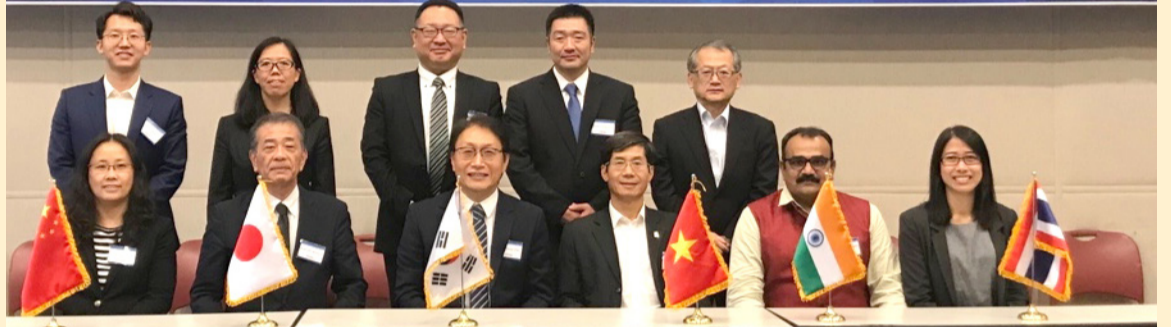
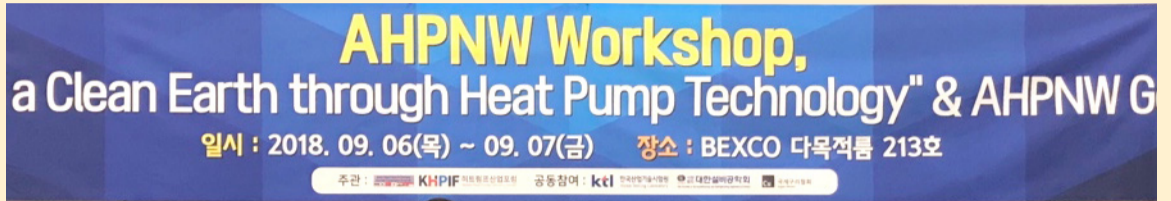
Dr. Prem C. Jain
1936 - 2018

Dr. Prem C. Jain, the founding father of ASHRAE India Chapter and ISHRAE, and the architect of India's green building movement, passed away in the early hours of September 20 at his residence in New Delhi. He was 82 years.

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

ISHRAE Goes Global

ISHRAE has entered into a new agreement with Asian Heat Pump Network for three years. The agreement provides for two ISHRAE members to be nominated to the Board of the Network – one delegate, and one alternate member.



Dr. R. Saravanan (second from right) represents ISHRAE at the Asian Heat Pump Network workshop in Beijing

National Programs

Symposia 2018 Conducted in Mumbai

ISHRAE conducted the seventh edition of its annual national program Symposia in Mumbai on July 6 at The Leela. This year's theme was 'All about Data Centres – Convergence of all Stakeholders'. The event, organised by ISHRAE Mumbai Chapter and ASHRAE Mumbai Chapter, was supported by their associated societies IPA, IGBC, IAEMP, IFMA, FSAI, RATA, and Awesome. Schneider Electric was the Platinum Partner; Stulz CHSPL (India) and Sterling & Wilson were the Gold Partners. The other partners were ZIEHL-ABEGG, Armacell, HILTI, and AET Flexispaces. Over 290 delegates participated in



C. Subramaniam, Prakash Lohia and Murari Sinhal at the lamp lighting ceremony

ISHRAE in the News

In the context of an acute shortage of skilled manpower in the air conditioning industry, and ISHRAE's efforts to bridge the gap through its certification courses and other initiatives, ISHRAE has been in the news in the recent past. Here are some glimpses.

The collage features several news snippets:

- Core Sector Communique:** "Shortage of skilled manpower in Air Conditioning sector" (11 Jul 2018). Article text: "India is aspiring to be the youngest nation by 2020. This means more jobs will be required to fill the employment gap. Youths in India are today unemployed not because they lack education but because they did not get into a job-oriented course/skill training. There are sectors like Air Conditioning, and Refrigeration where a lot of skilled manpower is required for example, in AC installation, maintenance and repair besides manufacturing. As per industry estimates, as many as 2,00,000 skilled technicians are required in the air conditioning sector alone. Every summer one finds it difficult to get well trained and economical technicians to service the old ACs or install new ones, & either the technician does not come soon or charges exorbitantly. This is due to skill shortage in this industry. Unfortunately National Skill Development Council has not setup a separate Sector Skill Council for AC and Refrigeration. To provide skill training & development organisations like ISHRAE - a Technical Society offer short term courses in this sector to fill the skill gap. Indian Society of Heating Refrigerating and Air Conditioning (ISHRAE) is the leading technical society in the HVAC&R industry & their Institute of Excellence (IE) has been offering education and training the programs in the AC &R sector. ISHRAE Certified Professional (ICP) programs are targeted towards the upskilling of professionals and also entry-level programs are available for those interested in making a career in the field of HVAC&R. ICP offers many programs including clean room certification, air-conditioning design, and air-conditioning service, commissioning and IIE offers a 4-month advanced engineering diploma course. To ensure that engineering students get an opportunity to get employment, ISHRAE annually holds in major cities the ISHRAE Job Junction where students directly interface with industry to seek employment during job fair. There are sectors like air conditioning, and refrigeration where a lot of skilled manpower is required for example, in AC installation, maintenance and repair besides manufacturing. As per industry estimates, as many as 2,00,000 skilled technicians are required in the air conditioning sector alone.
- APN News:** "Shortage of skilled manpower in Air Conditioning sector" (Wednesday, July 11, 2018). Article text: "India is aspiring to be the youngest nation by 2020. This means more jobs will be required to fill the employment gap. Youths in India are today unemployed not because they lack education but because they did not get into a job-oriented course/skill training. There are sectors like Air Conditioning, and Refrigeration where a lot of skilled manpower is required for example, in AC installation, maintenance and repair besides manufacturing. As per industry estimates, as many as 2,00,000 skilled technicians are required in the air conditioning sector alone. Every summer one finds it difficult to get well trained and economical technicians to service the old ACs or install new ones, & either the technician does not come soon or charges exorbitantly. This is due to skill shortage in this industry. Unfortunately National Skill Development Council has not setup a separate Sector Skill Council for AC and Refrigeration. To provide skill training & development organisations like ISHRAE - a Technical Society offer short term courses in this sector to fill the skill gap.
- Just My News:** "2 लाख रोजगार के मौके" (2 Lakh Job Opportunities). Article text: "भारत 2020 तक वर्ल्ड का सबसे युवा देश बनने की राह पर है. ऐसे में ज्यादा से ज्यादा रोजगार के अवसरों को खोजना भी भारत की प्राथमिकता होगी. एक अनुमान के मुताबिक, एसी और रेफ्रिजरेशन के क्षेत्र में 2 लाख से अधिक प्रशिक्षित लोगों की आवश्यकता है. यह दावा है इंसरे का, जो हीटिंग, एसी, और रेफ्रिजरेशन के क्षेत्र की लीडिंग टेक्निकल सोसाइटी है."
- Web Newswire:** "Shortage of skilled manpower in Air Conditioning sector" (11 Jul 2018). Article text: "India is aspiring to be the youngest nation by 2020. This means more jobs will be required to fill the employment gap. Youths in India are today unemployed not because they lack education but because they did not get into a job-oriented course/skill training. There are sectors like Air Conditioning, and Refrigeration where a lot of skilled manpower is required for example, in AC installation, maintenance and repair besides manufacturing. As per industry estimates, as many as 2,00,000 skilled technicians are required in the air conditioning sector alone. Every summer one finds it difficult to get well trained and economical technicians to service the old ACs or install new ones, & either the technician does not come soon or charges exorbitantly. This is due to skill shortage in this industry. Unfortunately National Skill Development Council has not setup a separate Sector Skill Council for AC and Refrigeration. To provide skill training & development organisations like ISHRAE - a Technical Society offer short term courses in this sector to fill the skill gap.

the event, which was videocast live at ISHRAE TV on YouTube. The delegates represented decision makers from the data centre industry and its end users, PMCs, system integrators, consultants, and providers of telecom services, IT infrastructure, monitoring systems, and safety solutions.

The traditional lamp was lit at the commencement of the program by Chief Guests Murari Sinhal (Group Senior VP, Reliance Industries) and Prakash Lohia (Senior VP – Power & Utilities, Reliance Industries); ISHRAE National President C. Subramaniam; Venkatraman Swaminathan (Schneider Electric); and Program Chair and Convenor Sanjay Jadhav (Stulz).

ISHRAE Mumbai Chapter President Sangita Jhangiani welcomed the delegates. Murari Sinhal and Prakash Lohia delivered their keynote addresses, followed by Venkatraman Swaminathan.



Sangita Jhangiani



Murari Sinhal



Prakash Lohia



Venkatraman Swaminathan

President C. Subramaniam welcomed the participants to this first national program organised by ISHRAE all over India in the Society Year 2018-19, and briefed them on the activities of ISHRAE.



C. Subramaniam

There were presentations on topics related to the Symposia theme by eminent speakers. Sanjeet S. Sandhu, VP – Data Centre Regional Application Centre, Schneider Electric spoke on 'Data Centre in the age of Cloud Computing and Edge'. Maurizio Frizziero, Director – Data Centre Cooling Product Management, Schneider Electric made a presentation on 'Reducing Carbon Footprint in Hyperscale Data Centres'. Suresh Balakrishnan, Stulz CHSPL (India) spoke on the topic of 'Future Trends in Data Centre Cooling'.



Sanjeet S. Sandhu



Maurizio Frizziero

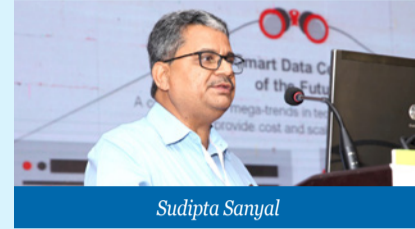


Suresh Balakrishnan

Sanjay Jadhav from Stulz addressed the subject of 'Cold Wall/AHU for Data Centres'. Sudipta Sanyal from Sterling & Wilson made a presentation on 'Disruptive Technologies'. Shyam Surve from Sterling & Wilson spoke about Modular Data Centres.



Sanjay Jadhav



Sudipta Sanyal



Shyam Surve

'Hyperpod' was the topic of presentation made by Manish Gokhale, Director – Business Development, Schneider.



Manish Gokhale



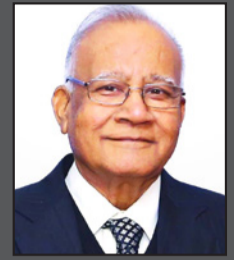
Tushar Wedhikar

Finally, Tushar Wedhikar from i.d.a. International, Singapore explained 'Data Centre Commissioning'.

Mumbai Chapter Organises Harit Jal Vayu

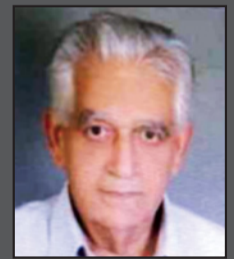
The 5th Edition of Harit Jal Vaayu in Mumbai was organised on August 31 at Sahara Star by ISHRAE Mumbai Chapter in association with Indian Plumbing Association (IPA) and CII-IGBC Mumbai Chapter.

Obituary



With deep regret we announce the passing away of **Anil Maheshwari**, a founding member of ISHRAE and its first National Secretary, on September 25. He was an industry veteran, pioneer and entrepreneur par excellence, who established companies such as Caryaire Equipment, Nicotra India and Trosten Industries. He was also a philanthropist in the field of education and founded a school in Noida. He was the father of Past National President Sachin Maheshwari.

We pray for his soul to rest in peace, and convey our sincere condolences to his family.



With deep regret we announce the passing away of **S. Venkatachari**, Past President of ISHRAE Bangalore Chapter (1989-90) and an HVAC&R industry veteran, on August 27 in Bangalore. He is survived by his wife, son, daughter and grandchildren.

We pray for his soul to rest in peace, and convey our sincere condolences to his family, friends and relatives.

Youth@ISHRAE

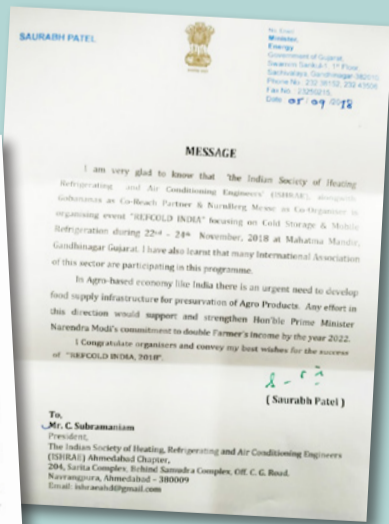
Leadership Weekend

ISHRAE is organising a Leadership Weekend from September 28 to 30 for Youth@ISHRAE at Jim Corbett National Park, Uttarakhand. The three day program is meant to hone the leadership skills of members below 40 years.

REFCOLD India 2018

REFCOLD Gets Government Backing

Gyanesh Bharti, Joint Secretary – Central Ministry of Environment, Forest and Climate Change – has expressed support of the central government to REFCOLD India 2018.



Saurabh Patel, Gujarat Energy Minister, congratulates ISHRAE for organising REFCOLD India 2018

Advanced Engineering Diploma Course

Bangalore Conducts AEDC

The inauguration of the third edition of Advanced Engineering Diploma Course (AEDC) was held at Bangalore Chapter office on July 4 by Chief Guests C. Subramaniam and S. V. Venkatachalam and Chapter President Elangovan. In all, 25 delegates are participating in the four month course.



S. Elangovan and C. Subramaniam light the lamp to commence the third AEDC



Students listen with rapt attention to the speaker

Programs

HVAC Energy Efficiency Summit by Thane Chapter

Thane Chapter organised HVAC Energy Efficiency Summit at Country Inn and Suites, Mahape on July 14. It was supported by ASHRAE Mumbai Chapter, Awesome, IGBC, IAEMP and GBCI.

The traditional lamp was lit by Chapter President N. K. Mahajan, veteran ISHRAE-ite Surendra Shah, Smita Kudarikar (GM – Energy Conservation, Maharashtra Energy Conservation Agency), Regional Director Shankar Sapaliga and Program Chair Amit Deshmukh.



(L to R) Surendra Shah, Amit Deshmukh, Smita Kudarikar, N. K. Mahajan and Shankar Sapaliga lighting the lamp

N. K. Mahajan welcomed the delegates. The keynote speaker was Smita Kudarikar. She was followed by Jayesh Vira (Director, Enviro Consultancy), Sreekesh M. K. (GM, Johnson Controls India), Rinul Pradhan (Building Automation and Energy Specialist, Siemens India), Atul Tendulkar (Assistant VP – Technical and Facilities, West at Matrix Services) and Maija Virta (Director – Santrupti Engineers).



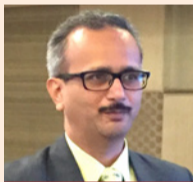
Smita Kudarikar



Jayesh Vira



Sreekesh M. K.



Rinul Pradhan



Atul Tendulkar



Maija Virta

Doublespread at Pune

In its Silver Jubilee year, Pune Chapter organised back-to-back programs on Chillers and Heat Pumps on consecutive days at JW Marriott. Both the programs were very well attended, with an audience of about 230 delegates and 40 students on each day.

Chiller Conclave was held on July 25. It was supported by FSAI, ASHRAE Pune Chapter, IAEMP, MEPA, IPA, IGBC, IIID, Awesome, RATA, IIAR and CREDAI. It was partnered by Kirloskar, Alfa Laval, Kehems, Inner Engineering, Aerolam, Lotus Systems and Sterling Duro.

The program commenced with the traditional lighting of the lamp by Pune Chapter President Suraj Ranade, National President-elect Vikram Murthy, Gaurang Shorey – Founder

Member, Swaraj NGO, veteran consultants R. S. Kulkarni and Arvind Surange, Regional Director Shankar Sapaliga and other dignitaries.



Shankar Sapaliga lights the lamp

Suraj Ranade welcomed the delegates. In the absence of Program Convenor Mangesh Deshmukh, Kedar Patki explained the objectives of the Conclave. Vikram Murthy addressed the gathering. The keynote address was delivered by Gaurav Shorey.



Suraj Ranade



Vikram Murthy



Gaurav Shorey

There first presentation was a partner presentation by Gaurang Dabholkar of Kirloskar Chillers on *Cutting Edge Chiller Technologies*. The next partner presentation was by Sajit Dileep of Sterling Duro. A technical presentation by Shailesh Paradkar of Alfa Laval on *Performance Certification* followed. Pramod Waje made a partner presentation on *Alfa Laval Heat Exchangers*.



Gaurang Dabholkar



Sajit Dileep



Shailesh Paradkar



Pramod Waje

The post-lunch session commenced with the release of Pune Chapter Newsletter.



Release of Pune Chapter Newsletter

Laurent Robert, MD – Cristopia Thermal Energy Storage Labaun made a technical presentation on *Insight on Water Cooled and Air Cooled Screw Chillers*. Kshama Jain, CEO – Kehems Technologies, made a partner presentation on *Energy Efficient Solutions by Kehems*. Ravindra Deshpande, Regional Manager – Victaulic India, made a partner presentation on *Victaulic Grooved Piping Systems*. This was followed by a technical presentation by Sachin Wadkar on *VRF vs. Chillers*.



Laurent Robert



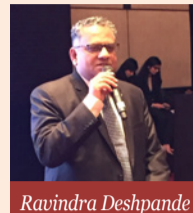
Kshama Jain



Sunil Relia

explained the conceptualisation of the Carnival. C. Subramaniam gave an overview of the heat pump and chiller industry.

The keynote speaker was R. S. Kulkarni, who talked about *Service Water Heating*. B. B. Kale made a partner presentation on *Integrated Heat Pumps*. This was followed by a partner presentation by Kshama Jain on *Cost Effective, Energy Efficient Heat Pumps*. Sunil Relia's technical presentation covered *Applicability of Heat Pumps in Hotel Industry*.



Ravindra Deshpande



Sachin Wadkar



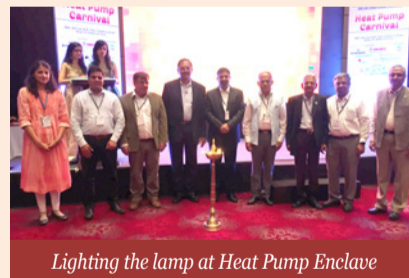
Ashish Rakheja

The highlight of the day was a panel discussion moderated by Ashish Rakheja on *Decoding VRF*. The panel was well

balanced, with panellists representing different interest groups: V. Manjunath (testing and standards), Amol Raut (VRF manufacturer), Prashant Joshi (chiller manufacturer), Vivek Bhalariao (contractor), and Amod Dikshit and Sachin Wadkar (consultants). Summing up the discussion, Ashish Rakheja concluded that VRF technology came to fill a gap, but achieved a very fast growth without commensurate precautions being taken. It is a useful product, but one needs to understand its challenges, like leakages and their implications, before using it. The lack of certified products in India needs to be addressed.

Heat Pump Carnival was held on July 26. It was supported by FSAI, ASHRAE Pune Chapter, IAEMP, MEPA, IPA, IGBC, IIID, Awesome, RATA, IIAR and CREDAI. It was partnered by Emerson Commercial and Residential Solutions, Kehems, Ensys, Lotus Systems and Sterling Duro.

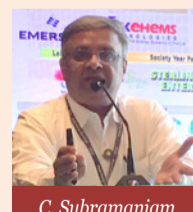
The lamp lighting ceremony was performed by Kshama Jain, Ashu Gupta (Managing Partner, Design2Occupancy Services), Sunil Relia (VP – Engineering, The Leela), Suraj Ranade, B. B. Kale (GM – Product and Marketing, Emerson Commercial and Residential Solutions), Shankar Sapaliga, Arvind Surange, C. Subramaniam and R. S. Kulkarni.



Lighting the lamp at Heat Pump Enclave

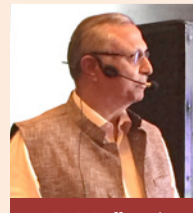


Kedar Patki

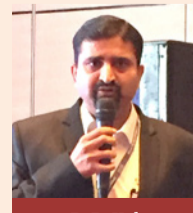


C. Subramaniam

Suraj Ranade welcomed the delegates, while Kedar Patki



R. S. Kulkarni



B. B. Kale

Guidelines for Reports in eNews

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

News in Brief

ISHRAE HQ organised a webinar on 'Managing Energy and Resources for Sustainability' by Sunil Sood on July 13.

ISHRAE HQ organised another webinar on 'Green Conditioning' by Nishant Gupta.

Mumbai Chapter organised a Tech Talk on 'Underfloor Air Conditioning of Auditorium' on July 13. The speaker was Abhijit Das, Design Manager – HVAC, at Voltas Ltd.

ISHRAE Mumbai Chapter, along with ASHRAE Mumbai Chapter, arranged a Tech Talk on 'Interaction between Outdoor and Indoor Air Quality and its Prediction for Management' on July 20. It was supported by RATA and Awesome. The speaker was Dr. Awkash Kumar, CEO and Founder of Sustainable Approach for Green Environment (SAGE) LLP and the General Secretary of Society for Clean Environment (SOCLEEN).

ISHRAE Mumbai Chapter, along with ASHRAE Mumbai Chapter, held a Tech Talk on 'AutoCAD Designing & Drafting Software', supported by RATA and Awesome, on August 17. The main speaker was Tirupati Naik, an experienced professional in the field of CAD for various types of engineering drawings.

ISHRAE Mumbai Chapter along with ASHRAE Mumbai Chapter organised a product presentation on 'Thermal Imaging for Predictive Maintenance' by FLIR Systems India on August 24. The program was supported by RATA and Awesome. Mahesh Rajpurohit, Sales Manager, FLIR Systems India was the speaker.

ISHRAE Mumbai Chapter along with ASHRAE Mumbai Chapter arranged a Tech Talk on 'Project Management' on August 3. The speaker was Ajaj Kazi, PMP from Voltas Ltd. The program was supported by RATA and Awesome.

ISHRAE Mumbai Chapter along with ASHRAE Mumbai Chapter conducted a Technical Talk on 'Different Types of Extinguishing Systems in Kitchens' on July 27. It was supported by RATA and Awesome. The main speaker was Gajanan Medewar.

ISHRAE Mumbai Chapter supported a National Workshop on 'Enhanced Energy Efficiency in Indian Data Centers' organised by the Indian Green Building Council (IGBC) of the Confederation of Indian Industry (CII) on July 24 at Godrej Auditorium.

Mumbai Chapter held its annual general meeting on August 10 at The Mirador. President Sangita Jhangiani, in her presidential address, outlined the plan for Society Year 2018-19, and mentioned that about 50% of the programs planned have already been held. She looked forward to continued active participation by members in these programs.



President Sangita Jhangiani makes the presidential address

Mihir Sanghavi, Treasurer 2017-18, mentioned that Mumbai is the first chapter in the country to hold its AGM this year. The business transacted during the AGM comprised adoption of minutes of the last AGM, adoption of accounts for 2017-18, appointment of CA K. R. Ramesh as the auditor for 2018-19, and announcement of the Nominating Committee for 2018-19.



Mihir Sanghavi presents the accounts for 2017-18

After the AGM was adjourned, there was a product presentation by Schneider Electric. Pankaj Pathak made the presentation, with a focus on the baby chiller range of the company.



Pankaj Pathak introduces Schneider products

Vadodara Chapter conducted a DL Program on Cleanrooms at Royal Orchid Central Akota on



Sheesh Gulati addresses Vadodara Chapter delegates

August 25. The speakers were Gautham Baliga and Sheesh Gulati. There were 45 participants, including Ashwin Patel (Chapter President), Manish Dandekar (President-elect), C.K.Rami (Treasurer), Dharmesh Vyas (Program Chair) and Vinay Panchal (Secretary).

Vadodara Chapter conducted a technical program on Building Management Systems at Royal Orchid Central Akota on July 7. The speaker was Tuht Katariya. There were 35 participants, including Ashwin Patel (Chapter President), Manish Dandekar (President-elect), Jigar Bhalavat (IPP), C.K.Rami (Treasurer), Dharmesh Vyas (Program Chair) and Vinay Panchal (Secretary).

Vadodara Chapter conducted a seminar on Goods and Services Tax – Recent Policy Changes and Government Initiatives at Prakruti Resort on August 11. The speaker was Michale Sigfrid Macwan. There were 50 participants, including Ashwin Patel (Chapter President), Manish Dandekar (President-elect), Jigar Bhalavat (IPP), Dharmesh Vyas (Program Chair), Hasmukh Patel (Past President and Student Chair) and Vinay Panchal (Secretary).

Vadodara Chapter conducted a program on Indoor Air Quality at Tansha Comfort Regency on July 21. The speaker was Ketan Soni. There were 42 participants, including Ashwin Patel (Chapter President), Manish Dandekar (President-elect), C. K. Rami (Treasurer), Dharmesh Vyas (Program Chair) and Vinay Panchal (Secretary).

Vadodara Chapter organised a product presentation of Sharp Business Systems India Adio Brand Solution Pvt. Ltd at Royal Orchid Central Akota on August 25. The speaker was Ketan Soni. There were 45 participants, including Ashwin Patel (Chapter President), Manish Dandekar (President-elect), C. K. Rami (Treasurer), Dharmesh Vyas (Program Chair) and Vinay Panchal (Secretary).

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

