

National Programs

Ventconf 2018 Grows Bigger and Better

Ventconf, the flagship national program of Delhi Chapter, was centred this year on the theme 'Emerging Trends in Green and Efficient Rail Transit Systems'. It was organised by ASHRAE India Chapter, Delhi Chapter of ISHRAE and Delhi Metro Rail Corporation (DMRC) at Le Meridien on December 20 and 21. A number of Associate Societies supported it: All India Air Conditioning and Refrigeration Association (AIACRA), Indian Green Building Council (IGBC), Defence Infrastructure Planning and Management Council (India) (DIPM Council India), Indian Chamber of Commerce (ICC), Green Rating for Integrated Habitat Assessment (GRIHA), Indian Plumbing Association (IPA), Contamination Control Society of India (CCSI), IAPMO India, Fire & Security Association of India (FSAI), and Bureau of Energy Efficiency (BEE).

K. K. Mitra, convener of the steering committee, opened the conference. In



Ashish Rakheja welcomes the delegates

his welcome address, Ashish Rakheja, Chairman, Ventconf 2018, mentioned that representatives of ten metro railways in India were present at the conference. There were more than 400 registrations. The event was partnered by a record number of 18 companies. Forty speakers were scheduled to speak, some of them in parallel sessions. He mentioned the unfortunate passing away of several industry stalwarts in the recent past: Dr. Prem C. Jain, Anoop Kumar Gupta – the driving force behind the greening of DMRC, Prof. P. L. Ballaney, and Anil Maheshwari. A minute's silence was observed in memory of the departed souls.

Dr. Mangu Singh, MD of DMRC, was the Chief Guest. The Guests of Honour were Sanjeev Kumar Lohia, MD & CEO, Indian Railway Stations Development Corporation (IRSDC), and Abhay Bakre, Di-

rector General, BEE. In a departure from tradition, to avoid the use of fuel and to prevent any adverse impact on air quality, the formal start of the conference was marked by watering of a plant instead of lighting of lamps.

Vikram Murthy, National President-Elect of ISHRAE, briefed the audience



Vikram Murthy

about the activities of ISHRAE.

Sanjeev Kumar Lohia presented his vision of Stations of the Future.



Sanjeev Kumar Lohia

Abhay Bakre apprised the delegates on some of the recent initiatives of BEE,



Abhay Bakre

including the launch of Global Cooling Prize in association with Department of Science & Technology, Government of India.

In his keynote address, Dr. Mangu Singh explained the role of metro rail-



Dr. Mangu Singh

ways in shaping modern India, and some of the Green initiatives of DMRC. For the first time in the world, DMRC has developed a Green rating system for metros along with IGBC. All metro stations of DMRC Phase 3 are Platinum rated.

Subir Das, President of DCI, proposed the vote of thanks at the end of the inaugural session.

The first technical session was chaired by A. K. Garg, Director (Opera-



Rashmi Bhardwaj

tions), DMRC. The theme of Session 1 was 'Metro Station Planning/Design'. The speakers were Rashmi Bhardwaj from DMRC, Raman Sikka from Sikka Associates, Shival Manchanda from Enia-Design, Rajesh Kumar Jain and Amit Tripathi from DMRC, and Rajeev Ranjan from Systra MVA Consulting.

Session 4 was held concurrently with Session 1. Its theme was 'Ventilation of Buildings, Stations and Railway Tunnels' and it was chaired by Nitin Naik, Sub-regional Chair II, ASHRAE Region-at-Large (RAL).

The speakers in Session 4 were Nabila Mariyam and Mayank Prakash Chauhan



Nitin Naik chairs Session 4

from DMRC, Ravi Bhushan from N. F. Railway, Ritesh Singh from Systra MVA Consulting, S. M. H. Adil from GEED Simulation, and Michael Feuser from Twin City Fan.

Post-lunch, Session 2 and 5 were held concurrently. Session 2, on the



Ritesh Singh



S. M. H. Adil

theme 'Metro Station HVAC Design', was chaired by V. Suresh, Chairman, IGBC. The speakers were Ashish Rakheja – Managing Partner of AEON Integrated Building Design Consultants, Jagdeep Singh, MD of Agape Ecotech, M. Anand, Principal Consultant at IGBC, Deepak Kumar Gupta and Chandan Kumar from DMRC, and J. Hari Prasad from Chennai Metro Rail.



Jagdeep Singh



M. Anand

Session 5 was held around the theme 'New Age Operations of Metro Systems', and was chaired by Jitendra Tyagi, MD, Uttarakhand Metro Rail Corporation.



Jitendra Tyagi



Dignitaries watering a plant

National Programs contd...

The speakers were Deepak Raikar from Honeywell Global Engineering Services, Rajnish Joshi from CANI Marketing, Gautam Kumar from DMRC, Mili Majumdar, MD, Green Building Certification Inc. (GBCI), and Rishi Kapoor from YORK (Johnson Controls).



Mili Majumdar



Rishi Kapoor

Session 3 was the last session of the day. It was a panel discussion, moderated by Ashish Rakheja, on the topic 'Decoding VRF'. The panellists were Rakesh Juneja (Hitachi), Seemant Sharma (Johnson Controls), Sangharsh Nayyar (Consultant), J. Hari Prasad (Chennai Metro), K. D. Singh (Aircon Engineers), U. V. Trivedi (Daikin India), and Narendra Kumar (Chennai Metro).



Ashish Rakheja moderates the panel discussion



The panellists (l to r): Rakesh Juneja, Seemant Sharma, Sangharsh Nayyar, J. Hari Prasad, K. D. Singh, U. V. Trivedi and Narendra Kumar

Session 6, on the second day, began with a motivational talk on 'Sustainability and Life' by Swami Sukhabodhananda, the Master Speaker of the conference. He averred that internal ecology sustains life, and exhorted the audience to operate from *prema*, not from *raaga* or *dvesha*. He received a spontaneous standing ovation at the end of his electrifying speech.



Swami Sukhabodhananda

Session 7 was on the theme 'Metro Experiences and Future Plans', chaired by Vir Advani, MD of Blue Star.



Vir Advani chairs Session 7

The speakers were J. Hari Prasad of Chennai Metro, A. K. Singh of DMRC, M. K. Singhal of Jaipur Metro, Mahendra Kumar of Lucknow Metro, R. K. Sharma of Mumbai Metropolitan Region Development Authority (MMRDA), Prashant Rao of Mega Metro, Neelam Chandra of Maha Metro, and Ravi Ramparia (Architect) and Pankaj Dharkar (President, Pankaj Dharkar Associates).



A. K. Singh



Neelam Chandra



Pankaj Dharkar and Ravi Ramparia

Session 8 focused on 'Innovation in Railway Station Design'. It was chaired by Richie Mittal, RMCR, ASHRAE RAL. The speakers were Atri Joshi from EniaDesign, Sunil Khatwani from LG, Gurpreet Singh Shah from Creative Group, and Nosaka Akinori from Daikin.

The concluding session – Session 9 – was a panel discussion moderated by Ashish Rakheja on the topic 'Future of Mass Transit Systems'.

Thus ended the two day conference packed with knowledge sharing, motivational case studies and networking.

Record Registration at RACON 2018

Saving the environment through energy efficiency is the need of the hour. Energy conservation, sustainability, safety and environmental protection are interlinked and technologies promoting them need to be developed – this was at the core of the 14th edition of RACON organised by Kolkata Chapter on December 7 and 8 at Novotel, Newtown (Rajarhat). The theme of the conference this year was 'Next Generation Technologies for Building & Industrial Services'. A record 500 delegates had registered for the conference.

Curtain Raiser

The Curtain Raiser of the event was held on the evening of December 6. A two-minute silence was observed in memory of Dr. Prem C. Jain and Anil Maheshwari – industry stalwarts who passed away recently. Manoj Chakravorti, President-Emeritus of Kolkata Chapter, welcomed the delegates. C. Subramaniam, ISHRAE National President, congratulated the Kolkata team for organising the event. While briefing the audience on the progress made by ISHRAE on various fronts, he announced the successful completion of the first ISHRAE-funded research project AIP-1 on IEQ Implementation Methodology, undertaken by IIT Madras and MNIT Jaipur. He displayed the Research Paper issue of *Air Conditioning and Refrigeration Journal* as proof of ISHRAE's commitment to research. He disclosed that for the second consecutive year, a student team supported by ISHRAE has won the third prize in an international student contest, held in China. Speaking about ISHRAE membership, which has touched 23,000 including student members, he welcomed the chartering of Bhopal as the latest chapter.



Manoj Chakravorti welcomes the delegates



C. Subramaniam addresses the gathering

Ashok Virmani, Chairman – Suvidha Engineers, was the Guest of Honour at the Curtain Raiser. He wished RACON success.



Chief Guest Yatish Kumar speaks to the audience

The Chief Guest was Yatish Kumar, CMD of Braithwaite & Co. In his address to the gathering, he advised ISHRAE not to miss the huge opportunity offered by Railway projects such as air conditioning of coaches, and to suggest appropriate policy changes to the government. He offered himself as a bridge between ISHRAE and any ministry.

Shailesh Nigam of Daikin, the Curtain Raiser partner, made a corporate presentation.

This was followed by a lively panel discussion on 'Challenges for Indian Manufacturers in Achieving Global Standards in Quality and Reliability', moderated by Dr. Himadri Guha. The panellists were C. Subramaniam, Vikram Murthy (National President-Elect, ISHRAE), Manoj Chakravorti, S. M. Kulkarni (Senior General Manager – R&D, Blue Star), and Sanjay Goyal (Director, Daikin India). The panel concluded that Indian manufacturers can certainly achieve global standards.

Amitabha Sur, Convenor of RACON 2018, proposed the vote of thanks.



(L to R) S. M. Kulkarni, Manoj Chakravorti, Vikram Murthy, Sanjay Goyal, C. Subramaniam and Dr. Himadri Guha participate in the panel discussion

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Day One



Lighting the lamp (L to R): S. Ganesh, Manoj Chakravorti, C. Subramaniam, Mark Rickard, Ashok Virmani, Amitabha Sur, Kapil Malhotra and Sandeep Seth

RACON 2018 began officially on the morning of December 7 with the traditional lamp-lighting. C. Subramaniam, Manoj Chakravorti, Ashok Virmani and Amitabha Sur were joined by S. Ganesh (President, Kolkata Chapter), Kapil Malhotra (Blue Star), Sandeep Seth (CEO, Trane) and Mark Rickard (Marketing Director, Richard Air Distribution, South Africa) on the dais.

K. Ramachandran (presidential member, ISHRAE) chaired the first technical session. Troy Goldschmidt (Greenheck) presented a paper on 'Laboratory and Fume Exhaust Applications'. Prabhat Goel made a presentation on Internet of Things. Arup Majumdar spoke about 'Refrigerants – Trends, Impacts and Future'. These presentations were interspersed with product presentations by Blue Star, Carrier and Pidilite.



Troy Goldschmidt



Prabhat Goel



Arup Majumdar

Session 2, held post-lunch, was chaired by Sunil Gupta. Jagdeep Singh, MD of Agape Ecotech, presented a paper on 'Use of Geothermal and Associated Technology in Eco Air Conditioning'. Mark Rickard made a presentation on VAV Diffusers. The technical presentations were interspersed with product presentations by Trane and Kubicek.



Jagdeep Singh



Mark Rickard

The last item in Session 2 was an interesting debate on 'All Green Certifications are Notional'. Pankaj Dharkar, G. C. Modgil and Pramod Dhir were for the motion. D. Nirmal Ram, K. Ramachandran and Richie Mittal spoke against the motion. Dr. Himadri Guha was the moderator.



Participating in the debate (from L to R): Reichie Mittal, K. Ramachandran, D. Nirmal Ram, Dr. Himadri Guha, Pankaj Dharkar, G. C. Modgil and Pramod Dhir

Felicitation Night

The evening of December 7 was celebrated as Felicitation Night. It began with the felicitation of associate societies: Confederation of Real Estate Developers' Associations of India (CREDAI), Indian Plumbing Association (IPA), Fire & Security Association of India (FSAI) and Indian Institute of Architects (IIA).

This was followed by recognition of industry captains. Those to be honoured were K. J. Jawa (MD, Daikin India), B. Thiagarajan (Joint MD, Blue Star – in absentia), Nicholas Heaton (CEO, Elta Group Asia) and Gurmeet Singh (in absentia).



K. J. Jawa being felicitated

Young entrepreneurs were next in the honours list. Varun Pahwa (Pahwa Group) and Varun Swarup (Paharpur Cooling Towers) were felicitated.



Varun Pahwa



Varun Swarup

Industry stalwarts who have served for more than 50 years were also honoured. The list included K. V. Jog, Prof. Dr. Samir Shah, Leslie D'Souza, S. P. Jain, N. Vaidyanathan, Akbar Bharmal, Santosh Singh (in absentia) and V. Madhava Rao.



K. V. Jog



Leslie D'Souza

Day Two

Arvind Surange was the session chair on December 8. Pankaj Dharkar presented a case study on 'Integration of All Services for Achieving a Net Positive Building Design'. Chirag Kataria presented a paper on Molecular Filtration. Prashant Desai made a presentation on 'Energy Optimisation in Pharma HVAC&R'. Harshal Surange spoke about 'Emerging Trends in Refrigeration and Cold Chain Industry'.



Pankaj Dharkar



Chirag Kataria



Prashant Desai



Harshal Surange

There were partner presentations by Kehems and Elta Fans, and an ACREX 2019 promotional film. The delegates dispersed with the feeling that it was a well organised event worth attending.



N. Vaidyanathan



Akbar Bharmal



V. Madhava Rao

The team behind the success of RACON 2018 was introduced, following which they posed for a group photo.

There was a presentation by Elta Fans, the Felicitation Night Partner.



The team behind RACON 2018

Advocacy

Mumbai Chapter Supports ASHRAE Summit

ASHRAE Mumbai Chapter organised a summit on December 14 at Sahara Star, on the theme 'Decoding ASHRAE Standards'. It was supported by ISHRAE Mumbai Chapter. The Associate Societies were Awesome, Indian Plumbing Association (IPA), Indian Green Building Council (IGBC), Indian Association of Energy Management Professionals (IAEMP), International Facility Management Association (IFMA) India, and Refrigeration and Air Conditioning Trades Association (RATA).

The Summit met with enthusiastic response. Almost 250 delegates registered for the event.

The traditional lamp of knowledge was lit by ASHRAE Mumbai Chapter President Shankar Sapaliga, 2016-17 President Nitin Naik, President-Elect and Convenor Amod Dikshit, Co-Convenor R. N. Joshi, ISHRAE National President-Elect Vikram Murthy, ASHRAE Distinguished Lecturer Dr. Chandra Sekhar,

RATA Secretary Mihir Sanghavi, and ASHRAE CTT Chair Sandeep Mendiratta.



Shankar Sapaliga welcomes the delegates

Shankar Sapaliga welcomed the delegates and briefed them about ASHRAE and its activities.

The first technical session was taken by Dr. Chandra Sekhar, who demystified ASHRAE Standard 62.1. The second technical session was on 'Impact of



Shirish Deshpande

GRIHA/LEED on HVAC Design' by Shirish Deshpande of Energetic Consulting Pvt. Ltd.

In the post-lunch session, Dr. Chandra Sekhar returned to make a presentation on 'Ventilation, IAQ and Energy Issues in Hot/Humid Climates'. He was followed by Dr. Jyotirmay Mathur, who took a session on 'Decoding ASHRAE Standard 90.1'.

In between the technical presentations, there were partner presentations by Haier Appliances, Wilo Mather and Platt Pumps, and FabricSox Air Dispersion System. Audio-visual promos of ACREX 2019 and REFCOLD 2019 were also played. Richie Mittal apprised the audience about the upcoming Asian Conference on Indoor Quality, scheduled in New Delhi on February 2 and 3, 2019.

The last session of the day was an interactive session on discussions and learnings of ASHRAE codes, NBC, ECBC, GBC and GRIHA. The participants were M. V. Deshmukh, Dr. Jyotirmay Mathur, Shirish Deshpande, Sandeep Goel, G. C. Modgil, Vikram Murthy and Dr. Chandra Sekhar.



Lighting the lamp (L to R): Mihir Sanghavi (partly visible), Amod Dikshit, Dr. Chandra Sekhar, R. N. Joshi, Nitin Naik (partly visible), Shankar Sapaliga, Vikram Murthy and Sandeep Mendiratta

Urjavarar at Thiruvananthapuram

Trivandrum Chapter organised a one day National Seminar, Urjavarar 2018-19, on December 15 at Energy Management Centre, Thiruvananthapuram. There were 218 registrations, including 64 ISHRAE members, 108 non-members and the remaining guests. The delegates were mainly from various government and private organisations like ISRO, IISU, CSIR, SCIMST, Technical Educational Directorate, KTDC, Technopark, AAI and HLL, and architects, HVAC industry professionals, dealers and MEP contractors.

The Chief Guest was Padma Vibhushan Dr. G. Madavan Nair – former chairman of ISRO, and former Secretary to the Department of Space, Government of India. ISHRAE National President C. Subramaniam presided over the inaugural function.

The Seminar comprised four technical talks and a motivational speech. In addition, product presentations were made by Gold partner Sanhua, ACREX partners Zamil and Armacell, and technology partner Mitsubishi Electric.



G. Madavan Nair gives the inaugural speech



C. Subramaniam makes the presidential address

Guidelines for Reports in eNews

- The deadline for receiving reports is the last day of the relevant period. For example, for publication in the January-February issue, the deadline is February 28.
- 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.**

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

