



November - December 2016

ISHRAE NEWS

Linking ISHRAE Chapters Across India

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

News in Brief

- Record 400+ programs and training courses in 9 months, covering over 20,000 delegates
- Urjavarana at 15 locations
- National Programs in October-December quarter: REFCON (Chennai), AC&R TrendZ (Pune), ACRETECH (Bangalore), Ventconf (Delhi), RACON (Kolkata), Confluence (Ahmedabad)
- First ever International Conference in Sri Lanka
- Job Junction: 3500 students took online examination, over 200 placements
- aQuest held at zonal levels
- IEQ Standard launched by ISHRAE, adopted by IGBC

Bangalore Continues on Overdrive

Bangalore Chapter continued to step on the gas during November and December. It carried out the following activities in the month of November:

- November 3: Technical Seminar on Car Park Ventilation System by Sirish Patnaik at The Chancery, attended by more than 50 members.
- November 10: AEC Meet – 2016, Integrating Architecture, Structure, MEP & Project Management at ITC My Fortune.
- November 11-12: IFMA's World Workplace India 2016, a two day annual conference on Facility Management at Shangri-La Hotel, attended by more than 200 delegates.
- November 15: ACRESERVE – Connect Through Service at Nimhans Convention Centre, attended by more than 200 delegates.
- November 15: Curtain Raiser of ACRETECH INDIA 2016 at KSCA Stadium, attended by more than 80 members.
- November 16: ACRETECH – Indoor Environmental Quality at Nimhans Convention Centre, participated by more than 150 delegates.
- ICP AC Service Level – 1; Module 1: November 18-19, Module 2: November 25-26 at Bangalore Chapter Office, attended by 22 delegates.
- November 24: ACRETECH Sri Lanka at Hotel Grand Monarch, Colombo.
- Student Programs:
 - One week training on HVAC for Students on November 9-13 at Nagarjuna College of Engineering.
 - Technical seminar for students on Green Building Services by C. Subramaniam on November 10 at Nagarjuna College of Engineering, attended by more than 120 students.
 - Technical seminar for students on Zero Energy Building Services by Rupesh Iyengar on November 10 at RV College of Engineering.
 - Industrial Visit of RV College of Engineering students to VSM Solar India Pvt Ltd., Bangalore on November 22.

The following activities were conducted in the month of December:

- December 8: Cultural Night for ISHRAE Members and Families at The Chancery Pavilion, attended by more than 350 people.
- Technical Seminar on Chilled Water Distribution Systems by Palanisamy at The Chancery, attended by more than 70 members.
- December 24: K-12 Program – Quiz Competition for children of Nagarjuna Vidyaniketan.
- December 10: Technical seminar for students on Basics of Electricals on HVAC system by T. Nagaraja at Nagarjuna College of Engineering, attended by more than 120 students.

Society Day Messages

Message from National President



Dear Fellow Member,
Our Society turns 35 years today and I wish to extend warm greetings to all proud members on ISHRAE Day – 9th December.

We are in the second half of an action packed ISHRAE year. With support from all members and industry, the Society has witnessed tremendous momentum

in all its activities and is well geared to accomplish most of its objectives set during the course of the year.

To reinforce the current theme of the Society year viz Enhancing Value, various efforts have been carried out by all our committees and many meaningful initiatives have been launched this year. Our efforts in technical areas such as development of codes and standards – IEQ & VRF Standard, research projects and new publications along with enhanced opportunities for learning through various programs, workshops and certification courses have been well recognized and appreciated by the entire industry. ISHRAE's recognition among relevant government organizations, industry user group and international fraternity have grown manifold. Our new initiatives on Build Fair Alliance as an extension to ACREX Exposition, Searcho – a Search engine to facilitate online business and various IT initiatives have already created a strong buzz in the industry.

The biggest strength of ISHRAE continues to be its reach through its 40+ chapters and 250+ student chapters, who have successfully carried out all objectives and initiatives of ISHRAE throughout the country. We are privileged to have services of 900+ industry volunteers working with selfless dedication and passion.

You are aware that Society's flagship event ACREX is soon approaching. ACREX India 2017 is being held at India Expo Mart at Greater Noida from February 23 to 25 and promises to be much larger and grander than past shows. ISHRAE presents Build Fair Alliance this year with 5 concurrent shows taking place at same venue covering various segments of building services under one umbrella. I look forward to welcome you at the show. Don't forget to visit your ISHRAE booth during the show!

Many thanks for your valued association.

Sachin Maheshwari
National President

Message from President Emeritus



Warm Greetings to ISHRAE Family Members!

We celebrate together 35 years of ISHRAE! What a fabulous journey it has been and we now arrive at this milestone; having had glorious achievements in all areas

of HVAC&R industry, and above all, our profound service to the HVAC&R fraternity.

I vividly recall the very first meeting at my home in Greater Kailash II, New Delhi, early in 1981, with a handful of like-minded professionals, sharing our passion for establishing a professional society for dissemination of learnings and experiences in the field of HVAC&R. Several of us belonged to ASHRAE and the mission was to have a similar India-centric professional society. And ISHRAE was born on sound principles. My home remained ISHRAE's registered office for some years, till we could afford our own K43 Kailash Colony Office.

Our founding framework must have been right to have the phenomenal growth ISHRAE has achieved today. None of us, in our wildest dream, would have imagined how ISHRAE has come to be regarded with respect by the peers around the world. But that is the story of our Bharat. I experience the same thrill in my current passion for Indian Green Building Council, having grown from 20,000 sq.ft. in 2003 to 456 crore sq.ft. of registered green footprint in 2016, and aspiring to reach World No. 1 position with 1000 crore sq.ft. when we celebrate 75 years of independent Bharat.

I am blessed to have been one of the Founding Members of ISHRAE and rejoice in every one of our glorious innings, as we look forward to a brighter future and greater contribution by each of our 20,000 members of ISHRAE family.

Dr Prem C Jain
Founding Member, ISHRAE

Mumbai Sets a Scorching Pace

Mumbai Chapter continued its exceptional performance with a host of programs, some of which are highlighted below:

- November 10 : Ice-on-Coil External and Internal-Melt Thermal Ice Storage Design, in association with ASHRAE Mumbai Chapter, attended by 21 delegates. ASHRAE DL Dr. Apichit Lumlertpongpana was the speaker.



Dr. Apichit Lumlertpongpana

- November 17-19: ICP AC Design Level-1 Module 2 by V. Krishnan.
- November 22: Tech Talk on Green Design and Sustainability.
- November 25: Group Discussion on HVAC for Retail/Mall, attended by 17 delegates. Points discussed included Current Trends in Mall – rented/ leased out



President N. R. Singh conducts the group discussion

properties; use of split units in small retail stores; 60% occupancy is considered good; HVAC design considering capital cost, energy operating cost, occupancy and energy efficiency.

It was recommended to design a Feedback Survey format to get information from current mall operators/owners to understand the 'As-is situations vs. Original Design' from owners in close proximity to Mumbai to begin with, and then take it to the National level.

Today the major challenge in a mall is to design HVAC for the Food Court, as not only the HVAC load but even the electrical load varies based on the User occupying the food court space.

Following suggestions were discussed to overcome some of the critical issues:

- Two stage evaporative cooling design

- Natural Cooling
- Heat load knowledge sharing with all project stakeholders
- December 8-9: ICP AC Design Level-1 Module 3 by Sangita Jhangiani



Sangita Jhangiani talks about flow control

- December 22: Tech Talk on Car Park Ventilation.
- December 23: Workshop on Understanding Refrigerants at Blue Star, Thane.
- A bonanza of free training programs was announced on ISHRAE Day:
 - December 13: Heat Loads
 - December 16: System Selection
 - December 20: Static/Head Calculations
 - December 23: Chilled Water Piping
 - December 27: Air Distribution
 The bonanza will continue into the new year.

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:

- 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. **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.

International Program



Vishal Kapur lights the lamp for ACRETECH at Colombo

For the first time ever, an International Seminar – ACRETECH – was held on November 24 at Hotel Grand Monarch, Colombo. More than 100 delegates attended the program jointly organised by ASHRAE Sri Lanka Chapter, ISHRAE Bangalore Chapter and ASHRAE Bangalore Chapter. It was a huge success due to the efforts of C. Subramaniam, International Chair, IBC President Shilpan Shah, ABC President Pandimurali, Convenor Amar, National President-Elect Vishal Kapur, Speaker Gautham Baliga and Partner Blue Star.

ADVOCACY

Kolkata Chapter Participates in IPA National Convention

Indian Plumbing Association (IPA) organised its 22nd Indian Plumbing Conference (IPC) at Milan Mela, Kolkata on November 25-26. The Chief Guest was Subrata Mukherjee, Minister, Public Health Engineering, Panchayats and Rural Development, West Bengal.



Gurmit Singh inaugurates IPC along with S. K. Roy, Chairman, IPA Kolkata Chapter



ISHRAE Kolkata Chapter team at IPC

The theme of the conference was *Sustainable Plumbing*. IPA had invited domain experts from across and outside India to share their knowledge with the delegates. The event was attended by over 500 delegates. A concurrent exhibition of plumbing and allied products was held to showcase contemporary technologies by leading brands from across the globe.

The event was a B2B platform for building industry professionals, and ISHRAE Kolkata Chapter was invited as a supporting organization with a complimentary stall and concessional delegate registration charges.

Ranchi Celebrates ISHRAE Day with Food Distribution at Old Age Home

As a step towards fulfilment of social responsibilities of ISHRAE, Ranchi Chapter distributed food items, essentials of daily use, sweets and snacks among the inmates of Adarsh Ashram (Old Age Home) on December 11 at Piska Nagri, Ranchi.



Ranchi Chapter members with inmates of Adarsh Ashram

आदर्श आश्रम के वृद्धों के बीच सामग्री का वितरण
पिरकानगढ़ी. कुलम स्थित आदर्श आश्रम के वृद्धों के बीच रविवार को इंडियन सोसाइटी फॉर डिस्ट्रिब्यूशन एंड एयरकंडीशनिंग सोसाइटी (इसरे) रॉंची चैप्टर द्वारा खाद्य सामग्री व दैनिक उपयोग में आनेवाले सामान का वितरण किया गया. संस्था के स्थापना दिवस पर सामग्री वितरण किया गया. सोके पर संस्था के श्रीस कुमार दास, शिवनन्दन भगत, मो इस्लाम, फुलेंद्र कुमार व आश्रम के सचिव एलपान सिन्हा उपस्थित थे.

Newspaper coverage of the event

An introduction of ISHRAE was given by SN Bhagat, CWC member. Shrish Kumar Das, Secretary, also addressed the inmates. This was followed by distribution of food items and essentials. Chapter members interacted with the inmates at the end of the program and had tea with them.

The program was attended by Shrish Das, Shivnandan Bhagat, Md. Islam and Fulendra Kumar from Ranchi Chapter, and LN Sinha, Secretary, Adarsh Ashram.

NATIONAL PROGRAMS

RACON 2016

RACON is a two-day national event organised by Kolkata chapter on air conditioning, refrigeration, ventilation and related industries. RACON is the largest HVAC&R event in the eastern part of India. RACON 2016 was held at Swisshotel, Kolkata on December 16-17 with the theme, 'Sustainable Built Environment Engineering for a Changing Future.'



Lighting of the lamp at RACON 2016



Delegates from Bangladesh



A view of the panel discussion

The highlight of the event was a panel discussion on 'Indian HVAC Manufacturers are not Fulfilling their Environmental Responsibilities.'

The event attracted international delegates from Bangladesh, in addition to those from all over India.

Confluence 2016

ISHRAE Ahmedabad Chapter organised its 11th annual flagship program Confluence on December 17 at Hotel Hyatt, Vastrapur on the topic 'Latest Trends in Modern Hospitals & HVAC', along with ASHRAE Western India Chapter. More than 200 delegates attended.

A highlight of the event was a lively panel discussion moderated by



Lighting the lamp: Pankaj Dharkar (Past National President), Sachin Maheshwari (National President), D K Shami (Guest of Honor – Fire Advisor, Government of India), Dr. Keyur Parikh (Chief Guest – Chairman, CIMS Hospital), D N Shukla (President – ASHRAE WIC and RD West 2 – ISHRAE) and Sanjay Adhvaryu (President – ISHRAE Ahmedabad Chapter)

Pankaj Dharkar (Founder, PDA MEP Consultants and President – FSAI). The panellists were D K Shami, K P Dominic (President – Blue & Gray, Founding



Sachin Maheshwari addresses Confluence



Aakash Patel, Convener and Immediate Past President comperes the seminar



Pankaj Dharkar makes a presentation on ACREX 2017



D K Shami delivers his speech



Dr. Keyur Parikh addresses the seminar



Panel discussion



Gautham Baliga makes a presentation on Infection Control, OT and Other Critical Area Designs

Member – FSAI), Debashish Ghosh (General Manager – Blue Star), Pradeep Sheth (Director – MEPF Engineering, Principal – INI Infrastructure & Engineering), Aditya Prabhu (Co-Founder and Group CEO – Secutech Automation), M F Dastoor (Director, Fire & Emergency Services – Gujarat) and Anindya Nandy (Business Development Head – Schneider Electric).

JOB JUNCTION

Kolkata Organises Job Junction in East Zone

Job Junction is an initiative by ISHRAE to provide job opportunities to fresh graduate engineers and diploma holders who are ISHRAE student members, and helping the industry to recruit the right personnel.

This Mahakumbh of jobs, spread across the nation, was conducted in the four zones – North, South, East and West – and attracted a number of big names as recruiters. The process was conducted in two stages – online test and final round. The common online test for all the registered candidates was conducted on October 5 for the East Zone and on October 7 for the other zones.

The final round for East Zone was held from November 7 to 9 in the Institute of Engineering & Management (IEM), Gurukul campus. This three-day mega event witnessed the participation of 196 students, of which 162 appeared on the event dates, from across the eastern region. Top institutes like IIT Guwahati, NIT Agartala, Assam Engineering College, IEST Shibpur, Jadavpur University, Kalyani Government Engineering College, Institute of Engineering & Management, Kolkata, MCKV Institute of Engineering, Haldia Institute of Technology, Gargi Memorial Institute of Technology, C.V. Raman Engineering



Inauguration of Job Junction at IEM

College, Bhubaneswar, and Asansol Engineering College participated in the endeavour.

Utpal Biswas (Kolkata Chapter President), Shubhashish Dasgupta (Coordinator, ISHRAE Job Junction), Amitabha Sur (National Treasurer), Satyajit Chakrabarti (Director, IEM), Saswat Kumar (Manager – Zonal HR, Voltas), Tanmoy Roy (HR – Paharpur Cooling Towers), A.K. Nayak (Principal, IEM), and Gopa Goswami (Director, Corporate Relations, IEM) were on the dais during the inauguration.

Job Junction Organised in Bangalore

Bangalore Chapter, with the support of Student Chapters of various colleges in Karnataka, Tamil Nadu, Andhra Pradesh, Telangana, Orissa, Hosur and Kerala, organised Job Junction, a two-day campus recruitment drive. The objective was to enhance interaction between student members and manufacturers, contractors, dealers, consultants and project management consultants in the HVAC&R Industry. It was held on October 21-22 at Nitte Meenakshi Institute of Technology (NMIT). It was attended by President Shilpan Shah, S.N. Raju (Regional Director South-1), C. Subramaniam (National President-Elect, Chairman – ISHRAE Institute of Excellence, and IPP ASHRAE Bangalore Chapter), N. Srikanth (President, Hosur Sub-Chapter), T. Nagaraja, (President-Elect, IBC and IJJ Co-ordinator), Dr. N. Kapilan (National Chair – Student Activities and Chair-IJJ), S. Elangovan (Secretary), Ajay Bararia, Vinod Saladi and others members. Around 250 students from reputed colleges participated.

Prominent companies that participated in the selection process were Voltas, Blue Star, Bosch, Johnson Controls-Hitachi, Rinac India, Psychrometric Solutions & Systems, Utility Projects & Services, Stream Line Refrigeration, VKA Power Master, Accure Power Technologies, Airflex Engineers, CNC Associates, Intelligent Building Consultants, Saptha Innovations and N Air Systems.

PROGRAMS

Fire & Safety in Tall Buildings

ISHRAE Thane and Mumbai Chapters, along with FSAI Mumbai Chapter, held a one day seminar on *Fire & Life Safety in Tall Buildings* on December 3 at Four Points by Sheraton, Vashi, Navi Mumbai. It was supported by ASHRAE Mumbai Chapter, Council on Tall Buildings and Urban Habitat (CTBUH) India, and Indian Association of Energy Management Professionals (IAEMP). Event Partners were Rahul Fire Protection, Leben Solutions, ABT Systems, Prolite, OBO Bettermann and Kenter Wires & Cables.



Lighting the lamp (L to R): Arvind Mandke (Chief Fire Officer – CIDCO), Vishal Kapur (National President-Elect), K. Ramachandran (National IPP), Bhushan Gagrani (MD – CIDCO), Milind Deshmukh (Ex-Director, Maharashtra Fire Services), Nivedita Jadhav (President, Thane Chapter) and Nitin Naik (President, ASHRAE Mumbai Chapter)

Milind Deshmukh delivered the keynote address. Ashish Rakheja spoke on fire engineering in tall hospital buildings.



Ashish Rakheja addresses the seminar

Vishal Kapur introduced ISHRAE to the participants. Pankaj Dharkar made a presentation on ACRESERVE 2017.



Pankaj Dharkar makes a presentation on ACRESERVE 2017

Hemant Khadse (East Corp) gave a talk on codes and compliances. Sandeep Goel (Visiting Faculty, School of Planning & Architecture, New

Delhi) delivered a talk on the changes and impact of NBC 2016. Alhad Gore (Design Cell Architects) made a presentation on the award winning Globanet project.



Sandeep Goel addresses the seminar

The event concluded with a panel discussion on Installation and Commissioning of MEP and IBMS – Reality and Challenges.

Refresher Course for Teachers in Jaipur

A unique refresher course, 'Advances in HVAC for Teachers', was held in Jaipur in December. Eminent ISHRAE members from all over India went to Jaipur to share their knowledge with teachers. Among the faculty members were Sushil Chaudhary, Nitin M. Deodhar, Sunil Kher, Leslie D'Souza, Kalyaan S, Sandeep Dahiya, Prabhat Goel, Richie Mittal and Kapil Singhal.



A session of the refresher course at Jaipur

A visit to the Daikin plant at Neemrana was a part of the course.

Urjavarana at Kalpakkam

Kalpakkam Sub-chapter held a one day conference Urjavarana-2016 at Mamalla Beach Resort, Mamallapuram on November 26. The objective was to share knowledge and ideas of the HVAC industry with all those associated, directly or indirectly, with the hunger to gain knowledge and also to find out what is new in the industry. This event brought together all trades related to Building Engineering Services, ranging from HVAC&R, Electricals, Fire Safety, Building Automation and covered high-performance glass, energy-efficient lighting and water-treatment products.

Vizag Organises Urjavarana



Urjavarana being conducted at Visakhapatnam

Visakhapatnam Chapter conducted Urjavarana, an annual event exclusively designed to create awareness and share knowledge on technologies and products that are not only efficient but are environment-friendly, thus helping to create sustainable buildings. The event was held on November 19 at Hotel Fortune Sreekanya.

ISHRAE Day Celebration at Vizag

Visakhapatnam Chapter celebrated ISHRAE Day by holding a quiz and entertainment program. M Srinivas was the quiz master. Usha Raj Reddy arranged the entertainment.



M Srinivas conducts the quiz

Prizes were distributed to the winners. This was followed by dinner.

Deccan Chapter Teaches Project Management Skills

Deccan Chapter conducted a training session on HVAC Project Management Skills on December 2. 31 students attended.



Training by Deccan Chapter in progress

Bangalore Holds ACRESERVE and ACRESERVE

ACRESERVE and ACRESERVE 2016 were one-day technical seminars organised by Bangalore Chapter, jointly with ASHRAE Bangalore Chapter and ISHRAE Institute of Excellence, Bangalore.

ACRESERVE was conducted on November 15, with the theme 'Connect Through Service'.

ACRESERVE was conducted on November 16, with the theme 'Indoor Environmental Quality'.

ISHRAE CERTIFICATION PROGRAM

Deccan Chapter

Deccan Chapter conducted ICP on December 2-3 (Module 1) and December 9-10 (Module 2). Twelve persons attended the program. Madhukar was the faculty.



Students attending ICP conducted by Deccan Chapter

Mumbai Holds Level-1 Module 2

ICP AC Design Level-1 Module 2 was conducted from November 17 to 19 at Mumbai. 25 delegates attended. V Krishnan was the faculty.

Module 2 covered overview of equipment, duct design with equal friction method, and air distribution for constant volume mixing air systems.

Mumbai Holds Level-1 Module 3

Mumbai Chapter organised AC Design Level-1 Module 3 from December 8 to 19. This was the first of its kind training programme in Mumbai. It covered ducting and insulation, basics of water and refrigerant piping. Sangita Jhangiani was the faculty.

K-12 ACTIVITIES

Mumbai Conducts K-12 Program at Sneha Sagar Ashram



Children at Sneha Sagar Ashram listen to the talk

Mumbai Chapter organised a K-12 program on November 26 at Sneha Sagar Ashram, Malad (West), to support street children at the orphanage. Children were explained the importance of personal safety, health and hygiene. They were also sensitised to conservation of electricity and water.

Bed sheets, dishes, spoons, bowls, glasses and a mixer grinder were donated, along with groceries. Snacks were served to all attendees. Kishor Karle was present from the Chapter, along with Rajendra Shinde.

K-12 Program in Mumbai on ISHRAE Day



Cancer-affected children enjoy the musical show

On the occasion of ISHRAE Day on December 9, Mumbai Chapter organised a musical show at Tata Memorial Hospital for cancer-affected children and their parents. It was a professionally organised program with singers invited from outside. Children were presented gifts and snacks.

Diwakar Sawant, Raveendra Shetty, Nandlal R. Singh, Dharmesh Mehta,

Mihir Sanghavi, Sanjay Kumar Verma, Rajendra Joshi and Kishor Karle were present, along with the office team.

Vizag Chapter Motivates Children

Visakhapatnam Chapter held a program at GVMC High School for Class 10 students on December 15 on the topic 'Unlock your Potential'. Children were taught how to plan for their examinations and the future.

Motivational speaker Satish



Children learn how to unlock their potential conducted the program.

K-12 and Advocacy Programs at Raipur

Raipur Sub-chapter organised K-12 and Advocacy programs from October 17 to 21.

On the first two days, the programs were held at Maa Karma Vidya Mandir. The venue for the last three days was J.R. Dani Girls School. Sub-chapter President Nishesh Khare, Secretary Pratik Khandelwal, Marketing Chair Vikram Chowdhari and K-12 Program Chair Dr. Meenakshi Rathore were present. The programs were supported by Lion's Club President J.S. Thakur.

On October 17, an eye camp was organised in association with Lion's Club, Sewa Welfare Foundation (a social welfare group) and Ganesh Vinayak Eye Hospital. More than 250 nursery to Class 12 students participated. About 20 students were recommended for further checkup. Information about ISHRAE and eye related issues was given to students, teachers, staff and associated groups. Chocolates were distributed to the students.

On October 18, a similar program was organised for Om Shanti Niketan School for students from Class 6 to

12. More than 200 students were checked and over 25 students were recommended for further checkup. At the end of the program, a motivational speech was given by Pratik Khandelwal. As a token of appreciation, gifts were presented to the owners of both the schools, certified technician of Ganesh Vinayak Eye Hospital and other guests.

The third K-12 and Advocacy program was organised from October 19 for students of Class 6 to 12 in association with Junior Red Cross, Lions Club, Sewa Welfare Foundation and Ganesh Vinayak Eye Hospital. Dental and eye camps were organised for students and teachers. Information related to ISHRAE and eye and dental care was given. Principal Vijay Khandelwal, Head Mistress Mrs. Maske and Red Cross representative Meenu Pandey supported the endeavour.

Deccan Chapter Conducts K-12 Programs

Deccan Chapter conducted a K-12 program at Government Primary School, Secunderabad on November 10 for students from Standard 1 to 5. A total of 50 students were present.



Children engrossed in painting competition

A painting competition was conducted on the theme 'Mother Nature and Buildings'. Games were also organised. Successful and enthusiastic students were rewarded

with books

Head Master and teachers, Secretary Ramachandra Raju, President Sreekanth Papinenei, President-Elect P. A. Prabhu and K-12 Chair Srikanth Vundyala were present.



Awards for successful students

Another K-12 program was conducted at Government High School, Picket, Secunderabad on November 11, for students from Standard 1 to 10. A total of 160 children were present.

Essay and painting competitions were held on Global Warming. Successful and enthusiastic students were rewarded with books.

Head Master and teachers, Secretary Ramachandra Raju, President Sreekanth Papinenei, President-Elect P. A. Prabhu and K-12 Chair Srikanth Vundyala were present.



Prizes awarded to deserving students

Another K-12 program was conducted at Century Baptist Church on November 12 for students from Standard 5 to 10. A total of 80 children were present.

There was a quiz and drawing competition on Global Warming. Successful and enthusiastic students were rewarded with books

Head Master and teachers, Secretary Ramachandra Raju, President Sreekanth Papinenei, President-Elect P. A. Prabhu, Past President BBN Prasad and K-12 Chair Srikanth Vundyala were present.

STUDENT ACTIVITIES

Installation of Student Chapter at BITT, Ranchi

The installation of Student Chapter at Birsa Institute of Technology (Trust) took place on November 26.

Rajesh Kumar Singh, President Ranchi Chapter, gave a brief introduction of ISHRAE and its activities. He also mentioned the student activities completed during the current SY, and those planned for the coming months. He administered the oath to office bearers of the student chapter and handed over the charter. Awanish Arun took the oath as President, Aadarsh Mallick as Secretary and Anupriya Roy as Treasurer.



Rajesh Singh administers the oath of office

Also present on the occasion were Anujeet Rituraj (Past President), S Ganesh (President-Elect) and PN Verma (Chair – Student Activity).

Technical Talk for Students by Ranchi Chapter

The Student Chapter installation on November 26 was followed by a technical talk on the subject 'Renewable Sources Of Energy: Wind Power Generation'. It was delivered by Anand Trivedi, Chair – Training, and attended by about 30 student members along with the faculty.

The topics covered included details of wind power generation, variation of wind velocity and its power, how far wind power can be the best alternative to thermal energy, site requirements and construction details.



Anand Trivedi interacting with new student members of BITT

Poornima College Students Visit National Exhibition on Renewable Energy

Department of Mechanical Engineering, Poornima College of Engineering, Jaipur organised a visit to National Exhibition on Renewable Energy (Energy Tech-2016) at MSME, Jaipur on December 10.

The objective of the exhibition was to accelerate the growth of India's renewable energy sector and contribute to sustainable economic development. The purpose of the visit was to make the students acquainted with solar power plants, their components, design, types of solar PV, and energy efficient lighting. 35 members of ASHRAE and ISHRAE student chapters along with faculty coordinator Ashish Dubey, Assistant Professor, participated.



Poornima College students at Energy Tech-2016

In the exhibition, various firms related to the solar energy sector exhibited a numbers of products such as solar PV cells, solar street lighting systems, solar water pumps, eco boats, D.C. fans and efficient domestic fire burners for villages.