



ACTIVITIES YEAR 2011-12

Chapter Number 186

1. Installation of ASHRAE Pune Chapter BOG

Date 23rd July 2011

Venue Hotel Sun N Sands

The installation Program was arranged at Sun N Sands.

Mukund Ranade, past president ASHRAE Western India installed the BOG of the chapter. ASHRAE Pune Chapter outgoing President Ashish Kadam in his speech covered various activities conducted by the chapter year 2010-11. The newly Installed President Ravindra Kulkarni, Fellow, ASHRAE welcomed audience and declared yearly calendar of various programs. He assured that all efforts will be made to have international speakers for PARC 2011 and other programs. More than 200 individuals attended the program.

M/S. Systemair was the event partner. The program ended with Vote of Thanks from Jayant Joshi Vice President of ASHRAE Pune Chapter. He thanked the partner Systemair, members of ASHRAE & AWESOME, special invited guests and the Sun N Sands staff for excellent arrangements.

2. Work Shop on Air Distribution Systems by Mr. Richard Bietmirza of Systemair

Date 23rd July 2011

Venue Hotel Sun N Sands

Duration 2 Hours

No. of Attendees 210

3. Workshop on Selection of Controls

Date 13th July 2011

Venue Alfa Laval Auditorium

Duration 2 Hours

Anand Joshi CTTC Chair ASHRAE Pune Chapter conducted training of Alfa Laval staff for selection of controls for ammonia refrigeration system. He also covered installation and troubleshooting the same. The area of thrust was Cold Storages, food processing industry and Dairy.



4. National Meeting of Ammonia Refrigeration Contractors, Manufacturers, Consultants for government interaction

Date 16th July 2011

Venue Hotel Vashi Navi Mumbai

More than 30 representatives of industries attended the meeting

5. Workshop on Industrial Refrigeration Controls

Date 26th July 2011

Venue Frick India New Delhi Auditorium

Duration full day

Anand Joshi CTTC Chair ASHRAE Pune Chapter conducted training of Frick India staff for selection of controls for ammonia refrigeration system. He also covered installation and troubleshooting the same. The area of thrust was Cold Storages, food processing industry, Dairy and process Industry.

6. Industrial Site Visit and overnight stay

28th and 29th August 2011

- a. Shivraj Cold Storage
- b. Godrej & Boyce manufacturing Company : Manufacturer of Domestic refrigerators and air conditioners
- c. MAPRO : Manufacturer of Chocolates, Fruit Pulp and Syrups
- d. Cricket Match of ASHRAE Members

7. Full Day Event PARC 2011 (Pune Airconditioning & Refrigeration Conference)

Date 17th Sept 2011

Venue Hotel Ista

Attendance: 195 Nos.

Covering following activities

- a. Future Trends for Refrigeration & Air Conditioning Industry by Bruce Badger President IIAR
- b. Stratified Air Distribution Systems and Reduced Cooling Load Calculation Method & Ventilation Design for High Rise Buildings

by Jian-lei Niu, FCIBSE, FHKIE, ASHRAE Distinguished Lecturer 2 Hours Work Shop

- c. Indoor Air Quality & Energy Management with Controlled Ozone Injection

by Kris Krishnan P.E, Member ASHRAE Canada 2 Hours Work Shop

- d. Water Cooled VRV Technology by Sanky Sue



- e. New Generation HVAC Insulation by Biswajit Roy
- f. Innovative Glandless – Seal less & Low Life Cycle Cost Pumps for HVAC & R Applications by Prasad Kulkarni

8. Membership Promotion Night

Date 17th Sept 2011
Venue Hotel Ista

We added 15 new members in the program

9. Work Shop on Standards

Date 17th Sept 2011

ASHRAE & IIR Standards for Ammonia by Bruce Badger President IIR and Voting Member ASHRAE Standard 15 committee

10. Paper Presentation at IIR Conference

Date 21st to 26th August 2011

ASHRAE Pune Chapter Immediate Past President Ashish Kadam presented paper on “Control Optimization of CO₂ Trans-critical Systems for Subtropical Conditions” at IIR conference at Prag.

ASHRAE Pune senior member Principal Dr. Atul Padalkar presented paper on Performance assessment of Split Air Conditioners with SC290 refrigerant at IIR Conference at Prag.

ASHRAE Pune member Prof. K. V. Mali presented paper on “Simulated Analysis of Room Air Conditioners with R161A refrigerant”

11. Energy Management Work Shop

Date 17th August 2011

No. of Delegates 50



ASHRAE Pune Chapter conducted full day work shop on “Energy Audit & Management” for Mechanical Engineering faculties of University of Pune.

12. Workshop on 'Energy Modeling of Building'

Date 24th October 2011

No. of delegates 64

ASHRAE Distinguished Lecturer Workshop on 'Energy Modeling of Building' on 24th October 2011, Monday at Courtyard by Marriott, Pune.

This workshop was conducted by **Dr Drury B. Crawly, Father of 'Energy Plus' - Building Simulation Program of US Department of Energy**. The Energy Plus is freeware program considered as world's most accurate building simulation software.

In spite of being Diwali Holidays, 64 people from our fraternity attended the program.

13. Workshop on Industrial Refrigeration Controls

Date 14th November 2011

Venue Concepcion Carrier Auditorium, Manila

Duration half day

No. of delegates 18

Anand Joshi CTTC Chair ASHRAE Pune Chapter conducted training of ASHRAE Philippines members for selection of controls for ammonia refrigeration system. He also covered installation and troubleshooting the same. The area of thrust was Cold Storages, food processing industry, Dairy and process Industry.

14. Workshop on 'Best Practices in Operation of Refrigeration Systems for Cold Storages and Dairy Plants'

Date Saturday, 26th November 2011

Venue: Indian Medical Association of India, Near Miraj Panchayat Samiti, Bank of India Bldg, Miraj

Duration: Full Day

No. of delegates 95

Covering following activities

- | | |
|---|-----------------------|
| a. Fundamentals of Refrigeration & Refrigerant Phase-out in India | Ashish Kadam |
| b. Food Preservation & Trends in Cold Storage | Sanjay Phadke |
| c. Best Practices in Refrigeration for Dairy | Jayant Joshi |
| d. Maintenance of Refrigeration Compressors | Avinash Prabhumirashi |
| e. Trouble shooting in Refrigeration Plants | Dhananjay Deshpande |
| f. Trouble shooting in Refrigeration Controls | Anand Joshi |
| g. ASHRAE & IAR Standards: Ammonia Refrigeration Plants | Anand Joshi |

Shri. Ajit Ghorpade, Director, National Horticulture Board was chief guest.

Event was supported by Parag Marketing, Cold Star Refrigeration, Asha Enterprises, Dhiren Engineers, Chintamani Thermal Systems, Manik Engineers and Powerica.



15. Membership promotion at Sangali

Date Saturday, 26th November 2011

Venue: Indian Medical Association of India, Near Miraj Panchayat Samiti, Bank of India Blding, Miraj

Duration: Full Day

No. of delegates 95

No. of new members 2

16. Visit to GCCA Exhibition, Mumbai

Date 1st & 2nd December, 2011

No. of delegates 195

17. Workshop on “Energy Efficient Refrigeration Plant Design, Operation and Safety Precautions”

Date Friday, 23rd December 2011

Duration: Full Day

No. of delegates 90

Venue: The Rain Tree Hotels, 120, St. Mary's Road Alwarpet, Chennai 600 018, India

This program was organized in association with Association of Ammonia Refrigeration, India and International Institute of Ammonia Refrigeration.

Covering following activities

- | | |
|--|---|
| a. Energy saving technologies in ammonia refrigeration applications using well designed pump circulation systems | Ramesh P Paranjpey Fellow
ASHRAE Life Member |
| b. Introduction to Personal Protective Equipment | IIAR DVD |
| c. Plant Operation and Maintenance: Systematic Approach | P. Sudhirkumar |
| d. Ammonia and Safety | Nikhil Raj |
| e. Controls for Safety | Anand Joshi |

18. Workshop on “Best Practices for Design Operation and Maintenance of Refrigeration Systems for Sea Food and Cold Storage Plants.”

Date Friday, 30th December 2011

Venue: Hotel Vivek

Duration: Full Day



ASHRAE Pune Chapter

No. of delegates 115

Covering following activities

- | | |
|--|--|
| a. Energy saving technologies in ammonia refrigeration applications using well designed pump circulation systems | Ramesh P Paranjpey Fellow ASHRAE Life Member |
| b. Refrigeration for Food Freezing | Sanjay Phadke |
| c. Maintenance of Refrigeration Compressors | Avinash Prabhumirashi |
| d. Trouble shooting in Refrigeration Controls | Anand Joshi |

Deepak Gadre Chairman Gadre Marine and Roy Abraham Join Managing Director Karunya Marine were present as Chief Guest and Guest of Honour respectively.

Event was supported by Parag Marketing, Frick India, Asha Enterprises, Manik Engineers and Metalex.

19. ASHRAE DL Work Shop on “Cooling Load Calculations, Flow Control, Refrigerants and ASHRAE Standards 34 / 15”

Date Tuesday January 10, 2012

Venue: Hotel Ista

Duration: Full Day

No. of delegates 120

Covering following activities

Cooling Load Calculations,

Flow Control in Industrial Refrigeration System

CO2 for Super market was covered by ASHRAE distinguish Lecturer Roberto R. Aguilo Fellow ASHRAE

Thomas E. Watson President Elect – ASHRAE was Chief Guest and he made presentation on ASHRAE and Refrigerants, ASHRAE Standard 34 and ASHRAE Standard 15

Kirloskar Pneumatic Ltd. and Alfa Laval India Ltd. were lead partners. The event was also supported by Frick India, Asha Enterprises, Manik Engineers, Dhiren Engineers and Hydrodyne India Ltd.

20. Workshop on “Fire and Life Safety”

Date Saturday, 11th Feb 2012

Venue: Eon Kharadi POD-C Auditorium

Duration: Full Day

No. of delegates 105

Covering following activities

- | | |
|---|----------------------|
| a. Emerging Trends in Fire Detection | Mr. Shabdsheel Sinha |
| b. Sprinkler System | Mr. Sharath Rao |
| c. Smoke Venting & Car Park Ventilation | Mr. Thadani |
| d. Pressurization System | Mr. Gaurav Vasudeo |
| e. Future Trends in Fire Suppression System | Mr. Shabdsheel Sinha |
| f. CFD Analysis | Mr. Ashish Kadam |



Mr. Ranpise Chief Fire Officer Pune was Chief Guest.

Event was supported by Panchshil Group.

21. Visit to China Refrigeration Show

Date 8th April to 15th April 2010

ASHRAE Pune Chapter organized visit of its members to China Refrigeration Show at Beijing. 8 Members joined the group.

22. Workshop on “Safety in Ammonia Plant on the occasion of Industrial Safety Week”

Date Saturday, 8th March 2012

Venue: Finolex Auditorium

Duration: Full Day

No. of delegates 25

IIAR DVDs on Ammonia Safety were played. This program was organized as per request of Finolex Group. The delegates were from Cable, fiber optics and pipes division.

23. ASHRAE DL Workshop on “Air Conditioning Systems for Thermal Comfort & IAQ”

Date 17/04/2012

Venue: Hotel O, Pune

Duration : Half Day

No. of Delegates : 110

Optimization of airflow regimes, heat transfer for comfort & hygiene in operating theatres is one of the main targets of HVAC engineers. This lecture considers the optimum conditions necessary for reaching energy efficient designs. Most of operating theatres air conditioning systems operate on 100% fresh air principal; typically requiring excessive fresh air-cooling loads particularly in hot and humid climates.

The present lecture fosters a mathematical approach to numerically predict the flow regimes, heat transfer and relative humidity in surgical operating theatres of different internal loads.

Nutech was lead partner and Panasonics was associate partner.

24. Emerson Cup

Chapter President R. S. Kulkarni served as Jury for Emerson Cup 2012

25. Workshop on “Safe Ammonia Refrigeration”

Date: 12/05/2012

Venue: Hotel Le Meridian

Duration: Full Day

No. of Delegates : 100



ASHRAE Pune Chapter

ASHRAE Pune Chapter and Association of Ammonia Refrigeration, India and has jointly organized full day Work at Hotel Le Meridian, Pune on 12th May 2012. The program was supported by International Institute of Ammonia Refrigeration (IIAR). Mr. Godan Nambudiripad, life IIAR & life ASHRAE member conducted the work shop.

Various topics presented and discussed were

- Safety: What is it?
- How Ammonia Design & Safety Evolved in US?
- Fundamentals of Safety in Ammonia Refrigeration
- Safety in Design, Manufacture & Installation
- Commissioning
- Operations
- Maintenance
- Emergency Response
- Business Case for Safety
- Next Steps Where do you start?

More than 100 delegates from various industries such as Food Processing, Dairy, Beverages, Breweries, Cold storage owners attended the workshop along with senior consultants, contractors and equipment supplier.

ASHRAE Pune President R. S. Kulkarni welcomed all delegates and felicitated Godan by with Pagadai and Uparana; traditional way of Pune City. He informed audience need of arranging such programs. AAR Secretary Anand Joshi briefed audience about formation of AAR and its association with IIAR. Godan, during his presentation demonstrated various safety equipments and offered them to AAR as gift from IIAR for future Programs.

The delegates were awarded various prizes for

- Best Question asked?
- Best experience shared?
- Best Idea suggested?

The event was very well supported by industry.

Danfoss Industries was Platinum partner for the event and Atul Chouthai made presentation on Safety Controls for Ammonia Refrigeration.

Frick India Ltd, Guntner Asia, Star Coolers & Condensers and Metalex Cryogenics were Silver Partners.

The event was also supported by Asha Enterprises, Bitzer India, Cold Star Refrigeration Pvt. Ltd., Dhiren Engineers, Hydrodyne India Pvt Ltd., Manik Engineers and Parag Marketing Services. The analysis of feedback forms shows that most of the members were happy with the program and expressed need of such programs to be conducted frequently and all over the India.

26. Tree Plantation on Nature's Day Venue Shivaji University Kolhapur

Date 5th June 2012

No. of Delegates 40

ASHRAE Pune Chapter organised Tree plantation of 500 trees in Shivaji University Kolhapur on the event of Nature's day and celebration of Silver Jubali Year of Shivaji University. 40 Delegates and college students participated to plant 500 trees. The program was organised CTTC member Pramod Pungaonkar.

27. Workshop on "Designing of Efficient and Safe Ammonia Refrigeration Plants"

Date: 09/06/2012

Venue: Hotel Taj Samudra

Duration: Full Day



No. of Delegates: 75

Topics

1. Designing of refrigeration plants - Type of plants - selection of refrigerant - selection of compressor - selection of evaporator - selection of condenser - piping and vessel design - do's and don'ts of cooling load calculations
2. Safety Practices in ammonia Refrigeration system
3. Ammonia refrigerant control solutions
4. Efficient refrigeration equipment designing (evaporator & condensers, plate type air cooling units) - case studies and practical examples.

The program was organized by ASHRAE Sri Lanka Chapter and supported by ASHRAE Pune Chapter, Association of Ammonia Registration & IIAR conducted by Sanjay Phadke ASHRAE Pune President Elect

Alfa Laval was Platinum Partner for the program.