

Messages

Message from National President-elect



Greetings from ISHRAE and welcome to the new Society Year 2020-21.

This year is a new beginning as we have entered the society year with the world reeling under a crisis due to the COVID-19 pandemic. The year commenced under lockdown imposed by the Government of India in order to contain the spread of Coronavirus.

This challenge has given us the opportunity to consolidate ourselves more and resolve with greater determination to move forward.

Under the leadership of President Richie Mittal and his vision, ISHRAE has decided to switch to the digital platform and carry out every activity with the help of the digital world. It is a complete transformation from the way we used to work in the pre-COVID era.

The year began on a positive note with the installation of the Headquarters (HQ) office bearers for the society year at the end of March on a digital platform. Thereafter, all the 43 Chapters and Sub-chapters were installed successfully the same way with overwhelming response. The installations were very well attended by the past and present leadership to witness the beginning of a new era at ISHRAE.

With that, there was no looking back. We conducted the HQ and chapter orientation digitally and all the respective committees started planning for the

year by conducting virtual meetings. The targets for the year (Management by Objectives – MBOs) were successfully drawn up on time.

The programs committee is at the forefront of dissemination of knowledge across the country by organizing various webinars on HVAC-related topics that received a thumping response from the industry.

ISHRAE has set up a special task force for COVID-19 to address the pandemic and provide guidance on how to prepare buildings for future epidemics. The task force has released a COVID guidance document on HVAC and Ventilation. The timely release and contents of the document have received wide acceptance from the government, industry, academia, retail, healthcare, facility managers and media. The release of the document was one of the biggest launches in the history of ISHRAE, and has placed the Society in a different orbit.

The message was widely spread by the concerted efforts of the Advocacy team. We jointly held panel discussions with various stakeholders of the industry. Over 10,000 unique visitors participated in these webinars and panel discussions. The Society is now poised to take a big leap forward and continue with the good work of building the art and science of the HVAC&R industry.

In the next few pages, I will take you through the commendable journey of your Society in the last three months.

Before I end, I wish to say that we are gradually unlocking ourselves from the lockdown. So, stay out stay safe!

– Amitabha Sur

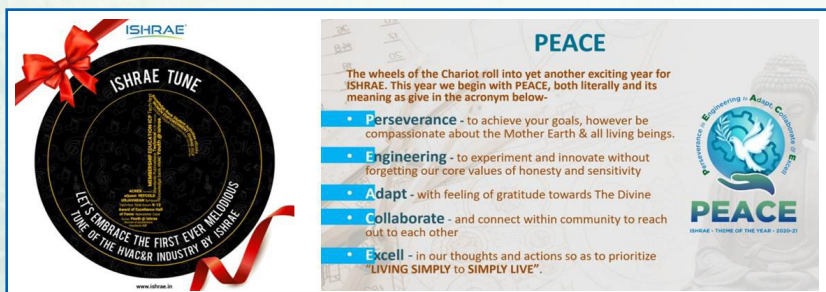
Message from the President

My Fellow ISHRAEITES,
Namaskar!

The new SY has begun with the wheels of the chariot rolling into a roller-coaster ride, leading to many unprecedented actions in the 38 years of history of ISHRAE.

While the world continues to fight this global pandemic of COVID-19, we at ISHRAE adapted quickly and shifted to the digital platform. At ISHRAE, safety and health of all concerned will always be of utmost priority. Therefore, the HQ staff was tasked to work from home much before the lockdown was even announced.

In this time of uncertainty, it is imperative that we use digital platform more than ever. Therefore, I would urge all National Chairs and Chapters to explore, use and promote the same for communication and meetings unless it is of utmost importance to have F2F meetings.



The young minds are often ignited and infused with fresh ideas. Therefore, I have formed a PEACE Brigade (Presidents' Executive Ad-hoc Committee for Excellence) comprising of eight members to fuel me with their dynamism.

I am happy to launch a Tune for ISHRAE, which henceforth will be played in all presentations, videos and as mobile ring tone and call waiting.

We plan to work more closely with the manufacturing industry and strengthen bonds with related Associations and Societies like RAMA, RATA, AAR, ECI and overseas Societies ASHRAE, REHVA, etc.

Our flagship events –ACREX INDIA and REFCOLD INDIA– have become the largest and most successful in South East Asia.

ISHRAE has already initiated the process to become the 'Standards Development Organisation' to help bring in standardisation in the country in HVAC domain.

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Message from the Immediate Past President

Dear ISHRAE Member,

Another ISHRAE year has rolled by. The theme for 2019-20 was EXCELL – Excellence in Communication, Engineering and Lifelong Learning – the 3 cornerstones of ISHRAE's rising eminence.

We have become the referral Society in all things related to HVAC & R to several Government Departments, National Institutions and International Organizations.

ISHRAE Research has completed three projects and awarded more this year. An AHU Standard and two draft Standards on Filters and Commissioning were released this February. Our Standards are adopted by BIS and we are a short step away from becoming a National Standards Development Organisation.

We have begun work on a seminal project named ISHRAE Building Energy Performance Standard. It shall become the referral for certifying institutions and government regulation across South Asia.

Join an ISHRAE Technical Group where you can contribute, learn and benefit by interaction with peers and colleagues.

Certification through Chapters is relentlessly driven as a key professional goal. For the first time our certification courses are available online.

ISHRAE has been invited to join the Engineering Council of India, a National Federation of Engineering Societies that promote professional development.

Through an agreement to jointly publish technical books for International distribution with Taylor & Francis, two ISHRAE books are being released for sale around the World – on Commissioning and Ventilation.

Your Society conducted its two flagship exhibitions – REFCOLD 2019 at Hyderabad and ACREX 2020 at Delhi.

We added 1,525 new professional members and 47 new Student Chapters this year. ISHRAE is growing organically. We opened Sub-chapters at Pondicherry and Jalandhar. ISHRAE now has 75 International Members across Sri Lanka, Bangladesh, Nepal, the UAE and the USA. We shall soon be chartering ISHRAE Chapters in Bangladesh and Nepal.

Wg Cdr Rahul D. Deshpande (Retd.) joined ISHRAE in March as the Chief Operating Officer.



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Meet Our Team 2020-21

The office bearers for Society Year 2020-21, who were installed along with the incoming President, are a talented and dedicated lot.

HQ OFFICERS



Richie Mittal
National President
president@ishraehq.in



Vikram Murthy
National Past President
immpastpresident@ishraehq.in



Amitabha Sur
National President-Elect
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VICE PRESIDENTS



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REGIONAL DIRECTORS



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Pankaj Tiwari
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NATIONAL CHAIRS

Vikram Murthy
ACREX &
REFCOLD

Vishal Kapur
ISHRAE Technical
Committee- ITC

Hemant Datta Bhandare
Membership Promotion
Committee

**Manan Anilkumar
Vora**
Program Committee

Pankaj Sareen
Student Activities
Committee

Krishnasamy Rengasamy
K-12 Activities
Committee

Manjunath Vithala Rao
Standards Committee

Dr. Jyotirmay Mathur
Research in ISHRAE

Rajneesh Joshi
ISHRAE Finance
Committee- IFC

Sandeep Galhotra
ISHRAE Marketing
Committee- IMC

Krishnan Viswanath
ISHRAE Education
Committee

Raja Sriram
ISHRAE Certified
Professional- ICP

M. P. Agarwal
Advocacy Committee

G.C Modgil
Honors and Awards

Anuj Gupta
IT Cell

Shami Bhardwaj
SearchO

Ashish Rakheja
Building Energy
Efficiency

Kapil Chand Singhal
Environment Protection
& Safety

**Anushree Parag
Riswadkar**
Women in ISHRAE

Shilpan Shah
Research
Promotion

C Subramaniam
ACREX India 2021

Anish Shimha R
ISHRAE Refrigeration
Committee- IRC

Paryushan Jain
Youth @ ISHRAE

Anoop Ballaney
REFCOLD India 2020

PEACE BRIGADE

Mihir Sanghavi

Ashu Gupta

Paryushan Jain

Shilpan Shah

Nilanjana Mukherjee

Aditi Shah

Sandeep Mendiratta

Jitender Harsh

HQ SECRETARIAT

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COVID-19 Guidance Documents for Air Conditioning and Ventilation



ISHRAE had set up a COVID-19 Task Force comprising of thought leaders and experts from among its members to help carve out guidelines as an aid to the humanity at large and to help fight the pandemic in buildings and complexes, in particular. The task force mapped thorough studies and rolled out the guidelines for safe use of HVAC systems in residential houses, commercial buildings, and hospitals on April 13, 2020. A copy of these guidelines is available at www.ishrae.in for free download. We are pleased to share that ISHRAE HVAC guidelines have been adopted and are now being recommended by the Central Public Works Department (CPWD).

These guidelines, in brief, cover aspects related to all types of buildings, be it residential, commercial or healthcare, and target from the simple, standalone air conditioning systems to the more complex, centralised and ducted air conditioning systems and address the concerns related with it, viz., filtration system, humidity, ventilation, etc.

ISHRAE's COVID-19 Guidance Document refers to studies conducted at various RH levels showing that using viral culture methods, low temperatures (7-8 °C) were optimal for airborne influenza survival, with virus survival decreasing progressively at moderate temperatures (20.5-24°C) and further decreases at higher (greater than 30°C) temperatures. Hence, ISHRAE recommends safe operation of air conditioning and cooling systems with indoor air

temperature and humidity set between 24°C and 30°C and 40% and 70% respectively.

In commercial buildings, multiple occupancy and transient visitors necessitate precautions, especially in the operation of their air conditioning systems. Hence, it would be prudent for all commercial buildings to limit risk by ventilating the indoor environment with outdoor air as much as possible. The suggestive precaution, as mentioned in the guidelines, is the use of mechanical ventilation systems that improve the quality of the outdoor air through filtration. However, the document has also mapped out separate operating guidelines based on the category of indoor unit, which can be read here.

Finally, in the healthcare sector, ISHRAE recommends converting general patient rooms and ICUs into COVID-19 patient areas with specific considerations pertaining to the HVAC systems in use. According to the guidelines, the conversion of the rooms would first require changing the room into a non-recirculatory system. During an emergency this can be achieved by blanking-off the return air vents in the COVID-19 patient rooms. However, it is important to make sure that the air handling unit has the provision to receive adequate outdoor air supply.

Richie Mittal, President ISHRAE said, "While the world continues to fight this global pandemic of COVID-19, we, at ISHRAE, have launched a task force along with a set of guidelines that may help reduce the impact of the virus in our homes, offices and

hospitals. At ISHRAE, we're dedicated to the safety and health of all citizens affected or not affected and would like to contribute in this global fight against this global enemy through our contribution as part of the largest body of HVAC&R industry."

ITC Documents on COVID-19

ISHRAE Technical Committee (ITC), a standing committee of the Society, has developed the following documents for COVID-19 application:

- COVID-19 Guidance Document for Air Conditioning and Ventilation,
- START-UP and Operation of Air-conditioning Ventilation Systems during pandemic in Commercial and Industrial Workspaces
- COVID-19 Guidance Document for Air Conditioning and Ventilation in Healthcare facilities.

A total of 26 Technical Groups (TGs) are active and have taken up multiple tasks and objectives.

Various Standards Being Rolled out

ISHRAE Standards Committee has taken up that following standards this year:

Air Handling Unit (AHU) Standard

AHU Standard will be available for commercial use soon.

Air Filter Standard

The draft of Air Filter Standard is under review.

Commissioning Standard

The draft of Commissioning Standard is under review.

Apart from these, the Committee has undertaken the following new standards in the current year:

- Evaporative Cooling Systems
- HVAC systems for Data Centres
- Building Management Systems
- Cooling Towers

ISHRAE Indian Building Energy Performance Standard (IIBEPS)

Multiple task groups are working expeditiously on this standard Work on this is underway at a very fast pace with multiple task groups working simultaneously.

ISHRAE Research Work in Progress

Four ISHRAE Research Projects are under various stages of implementation at the leading institutions of the country.

Student Research Projects

ISHRAE Student Project Grants for UG and PG students are ready for launch.

Publications at Draft Stage

The following books are at the draft stage:

- All About Insulation
- Air Purifiers Guide Book
- All About Cooling Towers
- Weather Data book



Thanks!

to all members of ISHRAE COVID-19 TASK FORCE who worked tirelessly to compile the ISHRAE COVID-19 Guidance Document for Air-Conditioning & Ventilation.



We also thank all the members who have given their maximum efforts for timely execution of this document.

Free Download available at www.ishrae.in E-mail: covid@ishraehq.in

ISHRAE COVID-19 TASK FORCE

| | | | |
|---|---|--|---|
|  MR. VISHAL KAPUR, CHAIR |  MR. RICHIE MITTAL |  MR. VIKRAM MURTHY |  MR. AMITABH SORA |
|  MR. BARUN AGARWAL |  MR. GAUTHAM BALIGA |  MR. JITENDRA N. BHAMBURE |  DR. VISHAL GARG |
|  DR. JYOTIRMAJY MATHUR |  MR. SHANKAR RAJASEKARAN |  DR. YASH SHUKLA | |

Activities of Various Committees

ISHRAE Advocacy Committee

Advocacy is defined as *a strategic action to promote a cause or a principle or influence decisions within social, economic system, and government agencies.* The first meeting of the Committee was conducted on April 11.

The activities of this Committee will focus on the following target constituencies:

- Government Connect - Centre Level
- Government Connect - State Level
- Domestic Societies
- International Societies
- Industry Connect
- Academia Connect
- Communication
- Public Relations

Escalating COVID-19 Pandemic spread has led ISHRAE taking quick lead as arguably the First Society in HVAC Industry to bring out 'ISHRAE HVAC Guidelines during COVID-19'. The Panel discussion and guidelines launched on April 13 generated tremendous response from the Government, particularly CPWD, associate societies, media, and even overseas associations.

ISHRAE conducted joint webinars with leading associate societies and it generated nearly 9,000 leads for prospective ISHRAE Members. Moreover, ISHRAE is invited to join 'India Cooling Coalition' led by AEEE and Shakti Foundation to work on facilitation of the execution of India Cooling Action Plan for the Government of India.

On World Environment Day, June 5, ISHRAE signed an MoU with Indian Institute of Interior Design (IIID). ISHRAE and IIID have agreed to exchange information on the latest developments in their respective areas that are of common interests and jointly work in conducting programs to benefit the members of both the societies. On June 26, COVID 19 Guidance document for Air-conditioning & Ventilation in Healthcare facilities was launched online jointly by IMA, HBI and ISHRAE and concurrently a webinar was also held.

This document, prepared by ISHRAE Technical team, had a phenomenal reach to over three lac healthcare related professionals in the country. It is heartening to see ISHRAE's expertise being sought after by several bodies on various matters related to air conditioning, refrigeration and the built environment. ISHRAE is committed to disseminating technical knowledge in HVAC&R field and work closely with associate societies, government, industry and academia.

Honours & Awards Committee

Team has been active to support the chapters for the nominations. On June 13, the committee has conducted a workshop for the broader understanding of nomination.

Finance Committee

The committee has geared up for the execution of its responsibility and conducted various meetings

and workshops for the following:

- Financial discipline by committees and Chapter or Sub Chapters.
- To ensure statutory compliances.
- Review HQ Budget to ensure due diligent working practices.

Standard Committee

The committee has been active for:

- SDO Accreditation: The QCI's office assessment Non Conformity (NC) closure.
- Formation of Standards Technical Committees (STC) for evaporative cooling system.
- Compilation of comments on standards in wide circulation – commissioning standards.
- Training or induction on SDO process to all identified STC members including HVAC working group members.

Refrigeration Committee

Refrigeration Committee has been active throughout all the Chapters.

Chapters have conducted over 50 different levels of programs during the first Quarter.

World Refrigeration Day Celebrations: The committee has conducted over 26 events across all the chapters.

The Committee has two ISHRAE Research Programs that have designed for Refrigeration.



Message from the President

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It is our endeavour to educate Students and Children (K12) about sustainability and my focus will be to encourage greater participation from Women in ISHRAE to advance the global agenda of gender equality.

SEARCHO, synonymous to Google of ISHRAE, gives complete information about HVAC&R. I would sincerely urge every member to explore this fantastic platform.

Members must use Facebook, LinkedIn, Instagram and Twitter along with @ishraehq to stay connected and promote ISHRAE's Digital Outreach Programme.

Presently, ISHRAE

- Is in 43 locations pan India.
- An International Chapter is to be installed in Bangladesh soon.
- Overseas members from Sri Lanka, Nepal and the USA.
- We are a large fraternity of 28,000 professional members and students.
- Amongst the world's largest Engineering Societies.

I would be more than happy to extend my help and support for all matters aimed at the growth, sustainability and promotion of ISHRAE and therefore, do not hesitate to reach out to me at president@ishraehq.in

I wish good health for you, your families, and our community. We will strive hard to navigate this period of uncertainty.... So, stay vigilant, stay healthy, and stay safe!

Feel proud to be part of ISHRAE as a volunteer and member.

Jai Hind.

– Richie Mittal

Message from Imm. Past President

contd. from page 1

Join your Chapter sub-committees, and volunteer to create new programs. You can log in to the members area of ishrae.in and see what programs are scheduled near you.

The time to live your life professionally and purposefully is now. Become the ISHRAE Member who brings another Member and grows our Society.

It has been a rewarding journey for me as your President. My biggest benefit has been meeting so many of you Members at multiple locations and appreciating our strength, our diversity and the contribution each of you make to ISHRAE.

Continue your involvement in ISHRAE with enthusiasm. It is the key to your growth.

– Vikram Murthy

ISHRAE Programs

Program Committee Organises over 500 Webinars

At the beginning of the ISHRAE Society Year in May, the whole world was reeling under COVID-19 pandemic. As a precautionary measure, in order to contain the spread of the virus, the government implemented lockdown in the country. Due to lockdown and restrictions, the situation was very tough for ISHRAE Program Committee to set a realistic target for Technical Programs for all the 43 plus Chapters and Sub Chapters across the country.

In order to maintain the consistency of organizing technical programs, the Program Committee designed a conservative and easily achievable target that should not become a burden for Chapter presidents. The Committee switched to digital platform and the leadership team of all Chapter/Sub Chapter quickly adjusted to the pandemic situation and adopted the online platform to conduct programs called webinars. The Program Committee managed to conduct over 500 webinars in 90 days with an average of five webinars per day. These

webinars were conducted on various topics related to HVAC&R industry. More than 25,000 HVAC&R professionals have attended these webinars across the country. It also witnessed international participation and few of them had international participation also. The Committee has conducted over 26 events on the Refrigeration Day.

Further, the Committee has taken the initiative of product presentation at HQ platform @ Rs 75,000 per webinar. The Committee has also started a workshop series.

Membership Promotion

ISHRAE Adds 560 New Members

Members are the key strength, pillar and performance of ISHRAE during the last two months. ISHRAE Membership Promotion Committee has added 560 new members and additionally, has retained 600 members among the existing ones. The Active Membership Strength has now crossed 13,000 mark with the tally touching 13,010. Even the ongoing crisis of COVID Pandemic has not affected the Committee's grit to serve the HVAC&R industry and the related professionals.

The Committee states that over 40,000 delegates attending more than 500 Programs conducted by ISHRAE's 43 Chapters and Sub Chapters pan India is a proof of how ISHRAE as a Society has emerged as a Professional Society. ISHRAE's strength always lies in dissemination of technical knowledge and the occupancy in its programs. The Committee mentions that these programs have proven us right even in this tough situation.

Students in ISHRAE

Students Activities Committee Organizes 225 programs in 90 days

ISHRAE's Student Activities Committee has achieved the milestone of 2,000 renewals or new membership during the last five years. It has closed June with 2,177 renewals or new membership with a jump of 35 per cent as compared to its previous best figures. 225 programs are organised in 90 days.

The Student Activities Committee has launched Students Logo, apart from the launch



of SRPG, NSDC competitions. Approximately 3,500 students have participated in eight HQ driven webinars. The Committee has also announced the launch of ISHRAE Model Student Chapter. Two Trainers are identified at all Parent chapter locations to carry out training of basic modules on air conditioning and refrigeration. The role of faculty advisors (the main link between students and ISHRAE) has been redefined. Two faculty advisors will become a part of ISHRAE Student Chapters.

ISHRAE Education Committee

IEC Offers Various Courses and Workshops

The ISHRAE Education Committee (IEC) strives to be the foremost provider of quality education content and delivery for the HVAC&R community.

IEC currently offers four instructor-led classroom workshops. It consists of a full-day workshop on Room Air Distribution, a half-day workshop on Current Trends in Room Air Distribution, a half-day workshop on Room Terminal Units and a half-day workshop on Air Filtration to Achieve Acceptable IAQ.

Some of these workshops can be offered in the form of webinars. Please contact Ravikumar

(ISHRAE staff at HQ) to slot one.

The Committee is currently working to develop the following instructor-led workshops:

- Healthcare Facilities – Design (full day)
- Testing & Balancing (half day)
- Cooling Towers (half day)
- Kitchen Ventilation (half day)
- Clean Room Validation (full day)
- Basics of HVAC Controls (full day)

All of these would be ready for offering before December 2020. In addition, there are plans to develop instructor-led workshops on Electricals for HVAC, Variable Flow Pumping, Cold Room

Load Estimation, Moisture Control and Permeation Loads.

IEC currently offers certification courses for HVAC Design (Level 1), Service (Level 1), Clean Room Design, Essentials of Draughting, and HVAC Commissioning. Chapters may again contact staff to slot these courses as soon as the lockdown eases. IEC will soon offer online course on ICP Design Certification.

The team is currently also working to offer a certification course on Ventilation (Level 1). It is expected that chapters would be able to conduct this course by the third quarter of the current Society Year.

Research Promotion — FIRST

ISHRAE promoted Foundation for ISHRAE as a not-for-profit Section 8 Company, to focus on Research Science Technology, initially related to the HVAC&R industry. The Foundation for ISHRAE Research Science Technology will be popularly known as FIRST acronym. The objective of FIRST is to work on socially relevant projects that impact society at large. The Research Promotion Committee invites donations from all individual members of ISHRAE to FIRST with the purpose of serving a noble cause.

In an innovative method to raise funds from Chapters and Sub-Chapters, the Research Promotion Committee Team initiated Full-Circle scheme under which six office-bearers of a Chapter - president, immediate

past president, president-elect, secretary, treasurer, and one other officer from CWC will contribute Rs 5,000 including GST to FIRST to carry out research. The contribution of Rs 30,000 including GST from a Chapter marks its completion of Full-Circle.

ISHRAE Bangalore Chapter has already taken the lead and completed its Full-Circle. There are plans to award additional CAFE points to Chapters completing the Full Circle and display names of donors on the FIRST website in a Gallery of Patrons and award STAR of Service to donors. All Chapters should try and complete their Full-Circle and thereby, encourage scientific research as mentioned under ISHRAE aims and objectives.

K-12 Activities

K-12 Team Conducts Webinar

The K-12 team of ISHRAE conducted a webinar on 'Fun and Science from Trash'. The aim of the webinar is to teach children on how to create a model from waste like old newspapers, CDs and used bottles. A total of 230 attendees benefited from this webinar all over India.

EXCLUSIVE WEBINAR FOR ISHRAE MEMBERS & KIDS

FUN & SCIENCE FROM TRASH

Objective
Lock down is going on all over India, so in the first series of K-12 STEM, we have found available waste of unused items kept in the house like empty boxes of matches, matchboxes, broken sticks, old newspapers, pencils, old pens, old rubber, old ink, old straws, plastic bottles and lids, old CD / DVD discs, etc.

Aim of the program
The aim of the first series of K-12 STEM is that we learn, experiment and then teach it. The models made in this series are very easy and entertaining too. The viewers of this series carry some old newspapers, matchboxes, adhesive tape, thick threads, old matchboxes and matchsticks, CDs with them so that they can also make them during the presentation.

Inaugural Note by: Mr. Krishnasamy R.
National Chair K12

Introduction Note by: Mr. Sanjay Kumar Jain
National Vice Chair K12

EXPERT SPEAKER Mr. Rajesh Sahu
President, ISHRAE - Raipur Sub chapter

Growing up in a small town "Durg" in Chhattisgarh and got his early education, after getting a diploma in mechanical engineering in 1993, chose RAC as his career, starting with job career in 1998, he served various MNC like Voltas, LG, Shifor And Schneider Electric in 2004 for the first time, seeing the program of Professor Arvind Gupta, he was impressed and decided that he would become a part of this mission in future.

After resigning from the job in 2016, he has been associated full-time through ISHRAE in this campaign, so far has presented K-12 STEM more than 80 schools.

Rajesh Sahu is instrumental to Create Stem Lab and it was established at Raipur Sub Chapter in 2018 with the objective of developed many useful low-cost teaching science teaching aids using locally available materials. The possibilities of using ordinary things for doing science and recycling modern junk into joyous products appealed immensely to children.

Presently he is president of ISHRAE Raipur Sub chapter

Saturday, May 02, 2020
6 pm to 7 pm

Join at www.getwebinar.com

Webinar ID: <https://www.getwebinar.com/raipur/>

Limited to 500 Seats only
First Come - First Serve

ISHRAE

Competition on Covid-19 Awareness

Under K-12 Activity, Ranchi Chapter organised a Slogan and Alpna Drawing Competition, and a Video Competition on COVID-19 to spread

ISHRAE Deccan Chapter

Young Creator Competition IDC Secret Superstar

"Give a Message to the World" by shooting/recording a video of yourself

"Who can participate"
Category A : 1st std to 5th std
Category B : 6th std to 9th std
Category C : 10th std to 12th std

Award & Prizes
From Each Category only 2 videos will be selected by the jury. Top 2 videos from each category will get exciting Prizes.

Video can be on any of the following topics

- Awareness on COVID-19.
- Preventive Measures to avoid the spread of Covid-19.
- A Motivational Message.
- How to keep yourself engaged in this lockdown period.
- A funny skit on Corona Virus.
- Something related to Nature, Environment or Sustainability.
- Duration of Video : Minimum 30 seconds and maximum 3 minutes.

*Note: Parents can help children to shoot the video but performance will be done by the children only. Add any creative idea to the video but it should convey the positive message. Video can be made in any language.

Send your entries over WhatsApp No. 8600533664 / 9500633377 with below details:
Name, Standard/Class, School Name and City.

Last date to accept entries is 13th May 2020.

Disclaimer
• This competition is conducted only for entertainment purpose.
• Content resembling to any person or situation will be purely coincidental.

Program Chair: Mr. Vema Reddy Munagala
Secretary: Mr. Kalyanaraman
President: Mr. Anand Babu

Corporate Partners: BELMCO, IABS, SPS, etc.

Supporting Associations: CATA, etc.

For further details, contact Mr. Pratik Gadkari | K-12 Chair 5Y:20-21 | 86005-33664

awareness about the pandemic and environmental protection. As many as 1,250 students participated in these competitions.

ISHRAE Indian Society of Heating Refrigerating and Air conditioning Engineers

RANCHI CHAPTER

SLOGAN AND ALPANA COMPETITION

Stay Home Stay Safe Topic: COVID-19

Coronavirus Awareness Slogan & Alpna Competition 2020

Slogan competition for Adults

- The slogan will be either in Hindi/ English and not more than two lines.
- The slogan must be original & creative and to be submitted in a neatly written sheet.

Alpna competition for Ladies

- Alpna will be drawn preferably in A3 size paper (Black/ white/ any other as per choice)
- Use of pen/ pencil/ paints/ colour/ drawing aids etc. are allowed.
- Alpna will be creative and original.

Guidelines for the competition:

- All members and their family members of ISHRAE Ranchi chapter are eligible.
- Mention your name, mobile no. and membership no. in the sheets.
- Send your entries to ishraeranchi2012@gmail.com on or before 25.05.2020.
- 1st, 2nd and 3rd alongwith 3 consolation prizes in each slogan and alpna will be awarded attractive prizes.
- Results will be declared by 10.06.2020

For clarifications, feel free to contact:
Mr. Fulender Kumar, President, IRC Mob 7903848492
Mr. B.K.Bisoyi, K12 Chair, IRC Mob : 8986880539

Women in ISHRAE

Women in ISHRAE organized webinars on various topics like Diabetes & Nutrition, Work Life Balance for Women Post Covid-19, Leading Self

through Crisis, and Acceptance to Zeal. These webinars elicited good participation from women section of the Society.

ISHRAE Mumbai Chapter

ACCEPTANCE TO ZEAL

20th MAY
4:30 - 6:00 PM

Ms. Sumita Mendiratta
Consultant Psychologist, Counsellor, Remedial Tutor, Certified Reiki/DI Therapy, EFT & Matrix Reimprinting Practitioner & Brain Gym (101,104, 301) Practitioner

She has 18 years of experience in various verticals having specialisation to work with learning difficulties and children with developmental issues. She also deals with adolescence and adult issues related to stress management and behavioural management. She has participated in several national and international certified training programmes and workshops. She does awareness talks on dealing with emotional & behavioural issues for all age groups on different platforms at national level.

Key Takeaways:

- Know your Self and Skills
- Brain Gym, EFT & Visualisation techniques

<https://us02web.zoom.us/j/9920146619>

REGISTRATION COMPULSORY: Register in advance for this meeting. After registering, you will receive a confirmation email containing information about joining the meeting.

Mr. Rajendra N. Joshi President
Mr. Amod Dikshit President Elect
Ms. Saloni Shetty Women Chair

REGISTRATION: Ms. Vandana Tare +91 99201 46619

ISHRAE Mumbai Chapter

LEADING SELF THROUGH CRISIS

A small journey towards taking charge and enhancing effectiveness!

27th May 2020
5:00 - 6:30 PM

Ms. Karuna Chavan
She is Bachelor of Technology from Indian Institute of Technology (Chemical Engineering, IIT Bombay) and Masters in Personnel Management from Tata Institute of Social Sciences (TISS), Mumbai. She has over 23 years of experience in Human Resources Management, Training and Coaching and OD. The confluence of her corporate experience with passion and expertise in facilitating (both individual and groups) makes her work contextual and effective. With her life purpose identified as 'Facilitating self-discovery', she focuses her energies on growth facilitation. In her independent practice over the last thirteen years she has facilitated over 11000 participants through 600 plus workshops in the areas like Personal Excellence, Self Discovery, Team Development, Leadership & Change management etc.

<https://us02web.zoom.us/j/9920146619>

REGISTRATION COMPULSORY: Register in advance for this meeting. After registering, you will receive a confirmation email containing information about joining the meeting.

Mr. Rajendra N. Joshi President
Mr. Amod Dikshit President Elect
Ms. Saloni Shetty Women Chair

REGISTRATION: Ms. Vandana Tare +91 99201 46619

KEY THEMES:-

- Leading Change via a vis being lead by change
- Locus of Control
- Mindfulness (Power of NOW)

ISHRAE Deccan Chapter

Interactive Workshop On Dynamic Situation Lead to Extraordinary Thoughts

DATE - 4th May '20 Time - 5 to 6 pm

SPEAKER
Sandhya Chandrasekar
Psychological Counselor and Life Coach

Sandhya Chandrasekar is head of Infinite Solutions, she has done her masters in Business Administration from IIM Lucknow and has an experience of over 20 years with specialists in Psychological Counselling.

Interaction in four languages- English, Telugu, Hindi & Tamil

Program Chair: Mr. Vema Reddy Munagala
Secretary: Mr. Kalyanaraman
President: Mr. Anand Babu

Registration in advance for this webinar is compulsory:
<https://bit.ly/25ub8HA>

After registering, you will receive a confirmation email with login link. The session is limited to 100 participants only. So, it is purely on first come first serve basis. Don't worry, if webinar is full, please visit Facebook ISHRAE DECCAN Chapter page for live streaming.

Corporate Partners: BELMCO, IABS, SPS, etc.
Supporting Associations: CATA, etc.

Speaker: Sandhya Chandrasekar

For further details, contact:
Swarna K Women Co-Chair 87128 83360
Swarna H Women Co-Chair 96434 14916
Sandeep Ananthula Youth Chair 99515 00016

ISHRAE Mumbai Chapter

DIABETES & NUTRITION

26th MAY, 2020
04 - 06 PM

SUNEELA BHATIA
Nutritional Consultant

She has 24 years of experience in the wellness industry and has been associated with hospitals, fitness clinics, schools and corporate to help people achieve their fitness goals. She has a three passion for nutrition education. The mission is to help YOU live a life FREE of food rules - with, but restrictions - because ALL food is great. She is a member of Indian / American Dietetics Association.

She believes in making you a judge of your own body. The goal is to inspire you to achieve your personal health goals while living a lifestyle full of balance and moderation. Focus is to be "diet independent" by guiding you on what foods are good for you. She helps in removing your food confusions and does not believe in diet packages. It is important to realize that nutrition and food choices can make all the difference when trying to prevent or treat chronic health conditions, improve sleep, physical activity and overall quality of life.

KEYPOINTS TAKEAWAY

- Reverse Diabetes & Prediabetes natural way.
- It's not about sugar anymore.
- Demystifying myths about Diabetes.
- Eat Local.
- Secret lies in the gut.

<https://us02web.zoom.us/j/9920146619>

REGISTRATION COMPULSORY: REGISTER IN ADVANCE FOR THIS WEBINAR. AFTER REGISTERING, YOU WILL RECEIVE A CONFIRMATION EMAIL CONTAINING INFORMATION ABOUT JOINING THIS WEBINAR.

MR. RAJENDRA N. JOSHI PRESIDENT
MR. AMOD DIKSHIT PRESIDENT ELECT
MS. SALONI SHETTY WOMEN CHAIR

REGISTRATION: MS. VANDANA TARE +91 99201 46619

ISHRAE Thane Chapter

WORK-LIFE BALANCE FOR WOMEN POST COVID-19

PANEL DISCUSSION

5:30 PM - 7:00 PM
25TH APRIL

<https://us02web.zoom.us/j/9920146619>

REGISTRATION COMPULSORY: Register in advance for this meeting. After registering, you will receive a confirmation email containing information about joining the meeting.

SPEAKERS

- Ms. Amrita Achekar** Con. Psychologist
- Ms. Geetanjali Pandit** Bestselling Author, Global Keynote & TEDx Speaker
- Dr. Suman Nair** Executive Coach
- Ms. Manjusha Deoghande** Immediate Past President ISHRAE Thane Chapter

MODERATOR
Ms. Geetanjali Pandit

For ISHRAE Thane Membership:
Mr. Nandoo Pall (9922707321)
Mr. Churuchandra Deshpande (9922707321)

CONTACT:
Ms. Geetanjali Pandit (9922707321)
Women Chair

REGISTRATION:
Ms. Neha (9922707321)
admin@ishraethane.in

Some Webinars held during the First Quarter

ISHRAE Bangalore Chapter Presents Webinar on

Indoor Air Quality in HOTELS & HOSPITALS

Mr. A. MADHUKAR

Wednesday, 19th April 2020 at 11:30 am

Mr. A. Madhukar is a Senior Consultant in the field of Heating, Ventilating, Air Conditioning & Refrigeration. He has over 20 years of experience in the field of HVAC systems. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

Distinguished Lecture on Testing, Adjustments & Balancing - HVAC Systems

21st May 2020 3:15 to 4:45 pm

Expert Speaker

Mr. N. S. Chandrasekar is Presently Consultant & Certified Energy Auditor from IIT Bombay. He is currently working as a Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

Clearing the Myths in Air Conditioning Systems During COVID-19

Panel Discussion

Date: 2nd May 2020 Time: 12:00 - 1:30 PM

Panel of Experts

- Mr. Anand Babbar, President, IAC
- Mr. N. S. Chandrasekar, National Secretary, IASHRAE
- Mr. Vilasam Murthy, Imit, Past President, IASHRAE
- Mr. Kalyanaraman, Secretary, IASHRAE
- Dr. RVS Prasad, President Elect, IAC
- Mr. Vishal Kapoor, Chair, Technical Committee, IASHRAE

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

Half Day Workshop on: Challenges around Performance and Sustainability of Cooling Tower Maintenance

Date: 20th May 2020 Time: 4:00 - 7:00 PM

Access Code: 209-521-805

Mr. Subir Das is the managing director of M/s Flow Tech Air Private Limited, a leading manufacturer of CEI certified cooling towers in India. He is a Science graduate with Physics Honours and completed his Advanced Mechanical Engineering in Thermodynamics from Imperial College London. He started his career with M/s Film Cooling Towers Ltd (UK) at their Boston Research Center as a design engineer. He has 40 years of experience in the design and execution of cooling towers for Power Plants, Steel Industries, Chemical plants, Process Industries and HVAC. He has been awarded the Shri Yashwantrao Chavan Award by the Government of India for his contribution towards the economic growth of cooling towers. He is a past President for Delhi Chapter of ISHRAE.

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

Webinar on: Please join the live Webinar

TOPIC: INTEGRATED MEP APPROACH

Speaker: Mr. Manickamrothy, Deputy General Manager, Blue Star India Limited, Chennai

Mr. Manickamrothy is a Mechanical Engineer by Education. He has over 20 years of industrial experience having worked for a year with industrial clients such as, Infosys, IIS and also has worked as a consultant. He is currently working in Blue Star Limited for the past 14 years. He has worked on various MEP projects in the areas of Residential, Commercial, Hospital and Industries. He was the president of ISHRAE West Bengal Chapter.

Zoom Meeting ID: 6370739733

ISHRAE Bhopal Sub-Chapter Presents

Webinar on Basics of Psychrometry & Heat Load

by **Mr. Sandeep Belsare (PGDBM)**, Partner - Cool Corner, Indore

20 Years Experience in HVAC

Imm. Past President ISHRAE Indore

Date: 27th April, 2020 Time: 3:00pm

Registration Link: <https://attendee.gotowebinar.com/register/2370861936267011597>

ISHRAE Jaipur Chapter

Webinar On Sustainable Architecture: Passive Design Measures and Its Impact on Building Services

22nd April 2020 04:20 PM - 05:30 PM

50 YEARS EARTH DAY 2020

Dr. RVS Prasad is a Senior Lecturer in the Department of Architecture, Rajasthan Chapter of Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE). He has over 20 years of experience in the field of Architecture. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE Gurugram Chapter

Webinar on: SHRAE Gurugram Chapter feels privileged to invite you to the Online Installation Ceremony to witness the beginning of a new era.

Date: April 11, 2020 Time: 4:00 - 5:00 PM

Registration Link: <https://global.gotowebinar.com/join/557581861>

Access Code: 557-581-861

ISHRAE GVA CHAPTER

Webinar on "VRV TECHNOLOGY IN AIR CONDITIONING"

Date: 25 May 2020 Time: 6 pm To 7.30 pm

By Mr. Subhashishu Sahu is a Bachelor of Engineering in Mechanical Engineering from Utkal University, Bhubaneswar. He has over 10 years of experience in HVAC. He is currently working as a Manager in Daikin Air Conditioning Pvt Ltd, Cuttack. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE Chennai Chapter

Technical Presentation "Indoor Air Quality and Energy Recovery Options"

May 22nd, 2020 6:00 PM IST

Mr. Nitish Mathur is an Expert in Energy Recovery Devices and Gas Phase Filtration. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE Ahmedabad Chapter

Webinar on: "Utilization of Indirect Cooling in HVAC Systems"

22nd April 2020 19:04:30 TO 19:06:00 PM

Hardik Chouhan is a Graduate in Bachelor of Engineering Electrical & Electronics. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

ISHRAE NASHIK CHAPTER feels pleasure in inviting you for the ONLINE WEBINAR of Refrigeration Cycle Components Overview

22nd April 2020 4:00 PM to 5:30 PM (IST)

Mr. Nisarg Shah is a Regional Manager (West) of Frascold India Pvt Ltd. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE Mysore Chapter

Webinar on Basics of Airconditioner

Friday, 22nd May 2020 Time: 04:00 PM

Mr. Karthikeyan.N.S is a Senior Engineer in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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ISHRAE Jaipur Sub Chapter

Webinar On Energy Conservation Building Code

22nd April 2020 10:00 AM-11:00 AM

Mr. Anshu Gupta is a Senior Engineer in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

Zoom Meeting ID: 6370739733

ISHRAE Coimbatore Chapter

Areas of Focus WHEN constructing a GREEN Building

On Wednesday, 22nd April 2020, 11:00 AM (IST)

Mr. Yusuf Turub is a Senior Consultant in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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ISHRAE Coimbatore Chapter

Earth Day 2020

22 April 2020

Mr. Yusuf Turub is a Senior Consultant in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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ISHRAE Indore Chapter

ISHRAE INDORE CHAPTER Welcomes to attend Chapter Orientation

FOR: BHOPAL, VADODARA & INDORE

By **RD West II Mr Pankaj Tiwari**

19TH APRIL 2020 AT 5.00 PM ON CISCO WEBEX MEETING

MEETING ID: 580384409 PASSWORD: 1234

MILIND INGOLE, PRESIDENT and **RAVINDRA VORA, SECRETARY**

Zoom Meeting ID: 6370739733

ISHRAE INDIAN SOCIETY OF HEATING REFRIGERATING AND AIR CONDITIONING ENGINEERS

Online Technical Introduction to Cold Chain and its Importance in Current Lockdown Scenario

19th April 2020 19:00-20:00

Mr. Harshil Sarangi is a Senior Engineer in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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ISHRAE

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ISHRAE Jalandhar sub chapter

Inverter AC Basic function and troubleshooting techniques

ON ZOOM :- Inverter AC Date:- 23.04.2020 Time:- 4:00 to 5:00 PM

By:- Balwinder Singh Training chair 20-21

Zoom Meeting ID: 6370739733

ISHRAE Kolkata Chapter

BASICS OF MARINE AIR CONDITIONING

SATURDAY, 25th APRIL, 2020 AT 6.30 PM

Mr. Mirjar Char Krabory is a Senior Engineer in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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ISHRAE Mumbai Chapter

Webinar on: Indoor Air Quality in Healthcare facilities

16 April 2020 at 3:00 pm to 5:00 pm

Dr. Khatras Sharma is a Senior Engineer in the field of HVAC. He has over 10 years of experience in HVAC. He is currently working as a Senior Consultant in the field of HVAC systems. He is also a member of the Indian Society of Heating, Refrigerating and Air Conditioning Engineers (ISHRAE).

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