

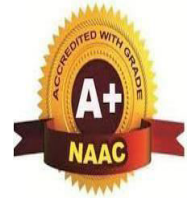


St. Joseph's College of Engineering

St. Joseph's Group of Institutions

OMR, Chennai- 119.

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ISHRAE ACTIVITY REPORT 2020-2021

**ISHRAE CHENNAI CHAPTER
St. JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING**



St. Joseph's College of Engineering

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**THE DIGITAL CWC INSTALLATION CEREMONY ISHRAE
2020-2021**

*Organized
By*

**ISHRAE CHENNAI CHAPTER
St.JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL
ENGINEERING
ON 8th MAY 2020**

EVENT REPORT

Topic : ISHRAE Digital CWC Installation Ceremony
Date : 08-05-2020
Time : 6.00 PM to 7.40 PM
**Venue : St.JOSEPH'S COLLEGE OF
ENGINEERING via Video Conference**

The inaugural ceremony of the ISHRAE student chapter of St. Joseph's College of Engineering was conducted via ZOOM. The event was graced by chief guest Dr. R.Saravanan, VICE PRESIDENT, ISHRAE COMMUNICATION – HQ.

The event began with an auspicious touch with Tamizh thaai Vazhthu to mark the beginning of tenure through a pious tradition. And then, Dr.S.Arivazhagan, HOD Lab affairs, Mechanical Department, St. Joseph's College of Engineering, gave a welcome address, followed by Mr. P.Manoj Kumar, ISHRAE faculty coordinator of the college, presented the activities taken place through ISHRAE student chapter of our college on the academic year 2019-2020.

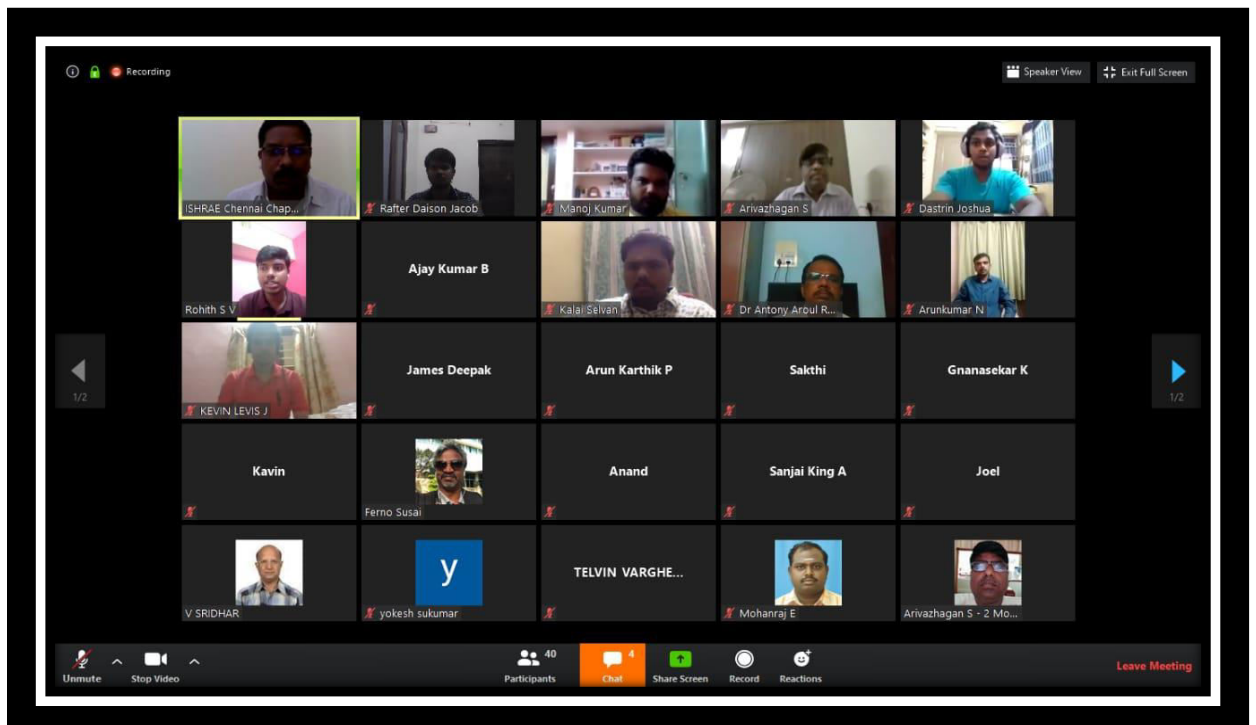
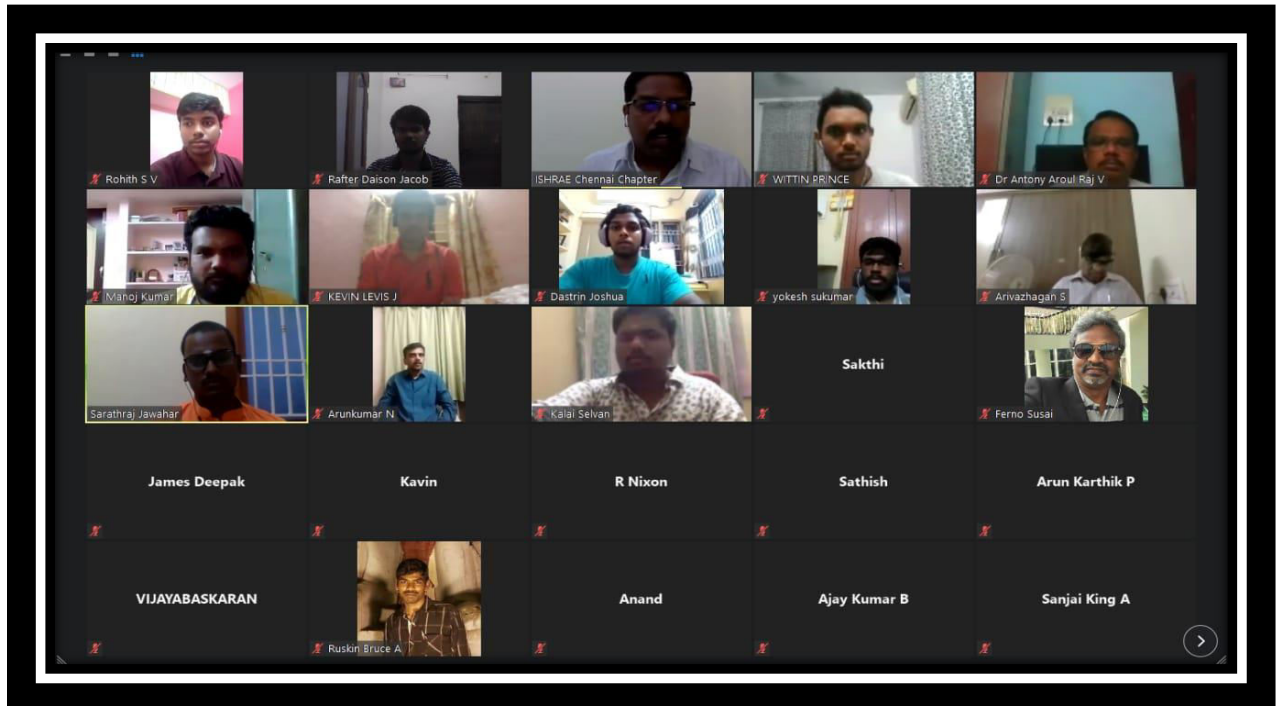
President of ISHRAE Chennai Chapter, Mr. Alisodai Velu Installed the Digital CWC and announced the office bearers for the tenure 2020-2021 for the college student chapter. Subsequently students took pledge as the Office Bearers. And then the Secretary of ISHRAE Chennai Chapter Mr.Ferno Susai delivered an eloquent speech about the necessity of skill set development with the present trends to the attendees.

Dr. R. Saravanan, Vice President, Ishrae Communication – HQ addressed the gathering with the enthusiastic speech and discussed some important points regarding the benefits of ISHRAE student member.

Then the felicitation taken place and the following people have addressed the meeting with their experience, ISHRAE Chair - Students Activities Chennai Chapter, Mr. James Deepak gave his words about the activities going to take place in ISHRAE and encouraged the students to be part of all activities. And then Dr. N.Arunkumar, HOD Student affairs, Mechanical Department, St. Joseph's College of Engineering, gave away his speech about student's involvement and their interest towards ISHRAE. Then Mr.Vijayabaskaran shared his experience on current industrial scenario and present engineering trends. Mr.Sridhar also shared his experience in HVAC & R Industries and its Employability.

Finally vote of thanks was given by J.SARATH RAJ student president ISHRAE SJCE . And it is followed by National Anthem. At last we had the TECH TALK which was given by Dr.S.Arivazhagan, HOD Lab affairs, Mechanical Department, St. Joseph's College of Engineering on Radiant Cooling and its advantages.

INAGURATION 8th MAY 2020:



Recording Speaker View Exit Full Screen

				Ajay Kumar B
				Dastrin Joshua
Arun Karthik P	Sakthi	Gnanasekar K	Kavin	Anand
Sanjai King A	Joel			TELVIN VARGHE...

Unmute Stop Video Participants 40 Chat 1 Share Screen Record Reactions Leave Meeting

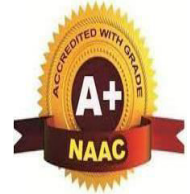


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**TECH TALK ISHRAE
2020-2021**

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**ISHRAE CHENNAI CHAPTER
St.JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL
ENGINEERING
ON 8th MAY 2020**

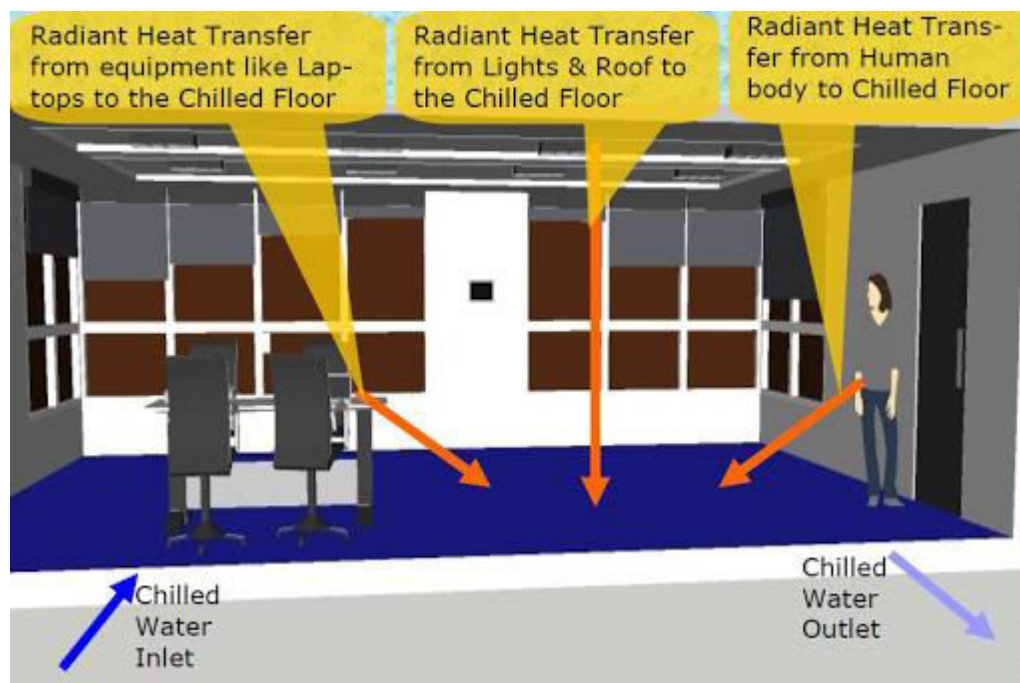
EVENT REPORT

Topic : ISHRAE TECH TALK
Speaker : Dr.S.ARIVAZHAGAN, HOD , MECH, SJCE
Date : 08-05-2020
Time : 7.00 PM to 7.40 PM
**Venue : St.JOSEPH'S COLLEGE OF
ENGINEERING via Video Conference**

The Event topic was radiant cooling. Initially the speaker started by the concepts behind normal cooling. And then he proceeded by saying the difference between the radiant and normal cooling.

The speaker illustrated the working of both normal and radiant cooling using various flow chart and diagrams. He also gave the information about the companies installed radiant cooling.

A **radiant cooling** system is a temperature-controlled surface that cools indoor temperatures by removing sensible heat and where more than half of heat transfer occurs through thermal radiation.



ADVANTAGES OF RADIANT COOLING:

The operative temperature is an indicator of thermal comfort which takes into account the effects of both convection and radiation. Operative temperature is defined as a uniform temperature of a radiantly black enclosure in which an occupant would exchange the same amount of heat by radiation plus convection as in the actual non uniform environment.

With radiant systems, thermal comfort is achieved at warmer interior temp than all-air systems for cooling scenario, and at lower temperature than all-air systems for heating scenario. Thus, radiant systems can help to achieve energy savings in building operation while maintaining the wished comfort level.

COMPANIES INSTALLED RADIANT COOLING:



Infosys Hyderabad

- Infosys constructed the first radiant cooling system.
- Total build up area = 24000 sqm.
- Significance split into two halves
- One with conventional air conditioning and other with radiant air conditioning.



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**WEBINAR on " Tunnel Ventilation for Metro Rail"
2020-2021**

*Organized
By*

**ISHRAE CHENNAI CHAPTER
St.JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING**

EVENT REPORT

- Topic : ISHRAE WEBINAR**
- Speaker : Mr. B. Sankaranarayanan, GM Projects,
Sterling and Wilson Pvt Ltd**
- Date : 23-05-2020**
- Time : 11.00 AM to 01.00 PM**
- Venue : St.JOSEPH'S COLLEGE OF
ENGINEERING via Video Conference**

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Cambridge

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nirf

2019 RANK - 128
IN ENGINEERING CATEGORY



8 UG COURSES ACCREDITED
SINCE 2003



ISHRAE STUDENT CHAPTER

Department of Mechanical Engineering

Invites you to a webinar on

Tunnel Ventilation System for Metro Rail - Basics and Key Aspects



23rd May 2020



Time 11.00 a.m.



Speaker

Mr B Sankaranarayanan
GM Projects
Sterling & Wilson Pvt. Ltd
Chennai

Mr. B. Sankaranarayanan has graduated in Mechanical Engineering from College of Engineering, Guindy, Anna University Chennai in 1991. He has a rich experience of over 28 years in the field of HVAC, having worked in Voltas, L&T, Unimech Systems India and ETA Engineering prior to his present position. He has been Regional Director - South of ISHRAE in 2017-18 and the President of its Chennai Chapter in 2013-14. He is currently working as General Manager-Projects in Sterling & Wilson Pvt Ltd, Chennai.

For Registration

<https://forms.gle/P3YgcKDJDYrvbngj>



For Queries



9791076067



sjcemechwebinar@gmail.com

Faculty Coordinator: Mr P Manojkumar, Assistant Professor/Mech Engg

Mr Alisodai Velu
President,
ISHRAE Chennai Chapter

Mr James Deepak
Chair-Student Activities,
ISHRAE Chennai Chapter

Dr N Arunkumar
HoD/Students Affairs
St. Joseph's College of Engg

Dr S Arivazhagan
HoD / Lab Affairs
St. Joseph's College of Engg

Dr Vaddi Seshagiri Rao
Principal
St. Joseph's College of Engineering

Registration is FREE

E-Certificate will be issued for
the active participants



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Department of Mechanical Engineering



Certificate of Participation

This is to certify that **Manoj Kumar P** of **St. Joseph's College of Engineering** has participated in webinar on **"Tunnel Ventilation System for Metro Rail - Basics and Key Aspects"** held on 23rd May 2020.

Mr Alisodai Velu
President
ISHRAE Chennai Chapter

Mr James Deepak
Chair-Student Activities
ISHRAE Chennai Chapter

Dr. Vaddi Seshagiri Rao
Principal
St. Joseph's College of Engg

The screenshot shows a Zoom webinar in progress. The main content area displays a slide titled "TVS- Normal Mode" with a technical diagram of a tunnel ventilation system. The diagram shows a cross-section of a tunnel with various mechanical components like fans and ducts. The Zoom interface includes a top bar with "Zoom Webinar" and "You are viewing Sankaranarayanan's screen". Below the main slide, there are three small video thumbnails for participants: Arivazhagan, Sankaranarayanan, and Arivazhagan. On the right side, a "Participants (85)" panel is visible, listing "Panelists (5)" and "Attendees (80)". The participant list includes Manoj Kumar (Me), Arivazhagan (Host), Sankaranarayanan (Co-host), and Arivazhagan (Co-host). Below the list, there are buttons for "Invite", "Unmute Me", and "Raise Hand". A "Zoom Webinar Chat" section is also visible, showing a message from Arivazhagan to Manoj Kumar asking "can you propose v o th?". The bottom of the screen shows the Windows taskbar with the time 11:44 AM on 5/23/2020.

Recording

You are viewing Sankaran's screen

Tunnel Ventilation System- Purpose

- Remove the heat generated by the train borne Air conditioning and braking equipment.
- Maintain acceptable environment in the tunnel to allow the operation of the Train air conditioning units.
- Maintain the pressure pulses or the maximum pressure within the acceptable limit.
- Control the smoke movement in case of fire either in the stations trackway.
- Provide tenable path of egress for passengers to evacuate in emergency condition by removing smoke.

Participants (81)

Panelists (5) Attendees (76)

Search

- AS A SIVAKUMAR
- AL Abish Lal
- AN ALFRED NOBLE
- BK B.Naveen Kumar
- BT BALAMURUGAN T
- BT Balasubramanian, T
- BK BALASUNDAR K

Unmute Start Video

Participants Q&A Chat Share Screen Record

Leave

Zoom Webinar

You are viewing Sankaran's screen

Manoj Kumar

Arivazhagan Sankaranarayanan Arivazhagan

TVS- Normal Mode

- When train runs in the tunnel and stops at station as per designed dwell time, the operation is said to be Normal mode operation.
- Due to the train movement, negative pressure will be developed in the back side of the train and positive pressure will be developed in the front end of the train.
- Hence the suction and delivery of air happens naturally.
- Consider train leaves from station-1 and travelling towards Station-2, then atmosphere air will enter in to the tunnel from station-1 shaft and hot air from Tunnel will exhausted through Station-2 Shaft.
- Draft relief dampers are used for the same.
- Trackway exhaust fans operate when in stations

Participants (87)

Panelists (5) Attendees (82)

Search

- AS A SIVAKUMAR
- AL Abish Lal
- AN ALFRED NOBLE
- AR arumugam rajendran
- AK ASHOK KUMAR V

Zoom Webinar Chat

From Arivazhagan to Me: (Privately) can you propose v o th?

From Arivazhagan to All panelists and attendees: All attendees will be given a link for feedback in this chat box towards the end. If you fill in and send eCertificate will be delivered to your mail

To: Arivazhagan (Privately)


Type message here...


Video

Participants Q&A Chat Share Screen Record

Leave


11:50 AM 5/23/2020

Recording  Speaker View Exit Full Screen




Arivazhagan

Manoj Kumar




Sankaranarayanan



Arivazhagan

James Deepak

Mute Start Video Participants (79) Q&A (16) Chat Share Screen Record Leave

Recording You are viewing Sankaranarayanan's screen  View Options

Question and Answer

Open (11) Answered Dismissed (18)

Hariharan P 12:11 PM

Sir, if a locomotive catches fire in the middle, will it be stopped and the passengers be evacuated in the tunnel middle? will optimum oxygen levels be maintained in the tunnel?

Answer live Type answer

BALASUNDAR K 12:11 PM

Sir, Is there any color code light in tunnel?




Answer live Type answer

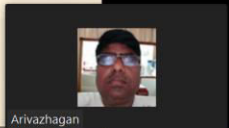
SAKTHI GANESH P 12:14 PM

when the train wheels are derailed from the track how can they sortout inside the tunnel

Answer live Type answer

Mayank Yadav 12:14 PM



Arivazhagan

Participants (61) Q&A (11) Chat Share Screen Record Leave

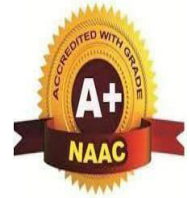


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**WEBINAR on " RISING WISE – SCIENCE QUIZ"
2020-2021**

*Organized
By*

**ISHRAE CHENNAI CHAPTER
St.JOSEPH'S COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING**



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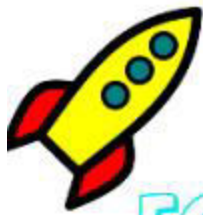
ISHRAE STUDENT CHAPTER

ISHRAE
Chennai Chapter



STUDENTS
ISHRAE

RISING WISE @ HOME
AN ONLINE SCIENCE QUIZ



FOR +1 & +2 STUDENTS



PARTICIPANTS AND WINNERS WILL BE
PROVIDED E-CERTIFICATE



29.05.2020



DOORS OPEN AT 11.00 AM THROUGH ZOOM

https://us02web.zoom.us/webinar/register/WN_VeaJ0xIoTY6w-wVxpwkYRQ

click the link above OR
scan to register

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CONTACT: staff: Manoj Kumar : 9791076067

student: sarath : 7550331419

“RISING WISE”

An inter school science quiz competition was organized and conducted on the 29th of May 2020 by the ISHRAE (Indian Society of Heating Refrigeration and Air conditioning Engineers) student members of St. Joseph’s college of engineering, Chennai as a part of K12 activity. It was a live interactive quiz. Around 50 students eagerly participated in the quiz. All the board members and the respected staff members were present. After the Tamil Thaaai Vazlthu, the mechanical department HOD (staff affairs) Dr. S. Arivazhagan, welcomed all the participants, colleagues and the board members.

At 10:45 Mr. Sarathraj, the president of the ISHRAE student chapter, St. Joseph’s college of engineering took over from there onwards. He, along with the co-ordination of his team clearly explained to the participants all the rules and regulations briefly. At 11:00 am the quiz started. Since the quiz was for 11th and 12th science/mathematics students of cbse and stateboard syllabus, the quiz focused on 3 major subjects, Physics, chemistry and mathematics. The questions were MCQ’s. There were multiple choice answer questions as well as single choice answer questions. In the first round there were 30 questions. The quiz was live, hence the members were continuously monitoring the quiz. The first person to answer the question correctly was awarded the marks. It was on first come first serve basis. At the end of round 1, a particular number of students who scored the criteria marks were promoted to round 2. The quiz was examined the same way in this round again. But this time thing’s weren’t truly same. As the level went up the questions were challenging. Finally, the students who reached round 3 again were evaluated and the first three places were announced there it self within minutes as soon as the quiz got over. Each and every participant was given an E-certificate.

They concluded with the vote of thanks. Dr. Arunkumar, HOD(student affairs), st. Joseph’s college of engineering Mr.Manoj Kumar, (assistant professor/staff incharge, ISHRAE, St. Joseph’s college of engineering) and a few other respected faculty members gave a little speech and expressed their gratitude towards all the participants and encouraged them to not waste time during this period of lockdown and utilize this time to enhance their skills. Everything came to an end at 12:15 pm.

