



**LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING**

**(AUTONOMOUS)**

**Accredited by NAAC & NBA (CSE, IT, ECE, EEE & ME)**

**Approved by AICTE, New Delhi and Affiliated to JNTUK, Kakinada**

**L.B.Reddy Nagar, Mylavaram-521230, Krishna Dist, Andhra Pradesh, India**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**LBRCE-ISHRAE student chapter renewal,CWC members**

**Swearing on ceremony and Technical Talk by**

**Mr.Vijayabaskaran on “Cold chain 4 Life”**

Event Type : WEBINAR

Date / Duration :07-01-2021/ 2:00 pm-3:30 pm

Resource Person : 1) Mt.Thirunavukkarasu, Regional Director- South  
2) Mr.Vijayabaskaran, Ex-President ISHARE Chapter, Chennai

Name of Coordinator : Dr.P.Vijaya Kumar

Target Audience : All ISHRAE registered students

Total no of Participants: 53

Objective of the event: To make students aware of the applications of Refrigeration for preserving medicines and vaccines.

Outcome of event : 1) Students were able to know the use of refrigeration for vaccine preservation in different methods.

2) Students got their doubts clarified with the Resource Person on various technical aspects in order to take up project works.

Description / Report on Event:

A webinar was organized by ISHRAE Student chapter of LBRCE in association with ISHRAE Chapter Vijayawada for the Renewal of chapter and CWC members swearing in ceremony followed by technical talk on “**Cold chain 4 life**” The resource person Mr.Vijayabaskaran, Ex-President, ISHRAE Chapter, Chennai. The programme was started with the swearing in ceremony of CWC members by Mr.Thirunavukkarasu, Regional Director, South after the introduction of the guest by the programme chair Ms.Sandeevani Vajje. The session started at 2 PM and continued up to 3.30PM. The resource person has delivered the talk in a very lucid and easy to understand manner to the participants. He has provided good number of examples for making the students understand and motivated them. The resource person made students to get awareness on the opportunities in the HVAC & Refrigeration domain locally and globally. He emphasized on the strong technical knowledge required in students. The attendees were very much satisfied by attending the webinar.

Feedback / Suggestions:

**ISHRAE**

Vijayawada Chapter

**STUDENTS**  
ISHRAE

**Department of Mechanical Engineering**  
**Lakireddy Bali Reddy College of Engineering, Mylavaram**

TECH TALK &amp; RENEWAL OF STUDENT CHAPTER by

**ISHRAE Vijayawada Chapter****REFRIGERATION****EXPERT SPEAKER**

**S VIJAYABASKARAN**  
Consultant & Trainer

VIJAYABASKARAN is holding a Diploma in Refrigeration & Air conditioning, Industrial Refrigeration engineering and Industrial safety engineering. He has an overall experience of 30 years in Industrial refrigeration projects execution (Installation & Service) abroad and in India such as Ammonia Refrigeration projects at Kuwait, Nigeria, Sultanate of Oman, Thailand and Laos. He is currently engaged into Consulting - Industrial refrigeration system. He also trains on Safe operation of Ammonia refrigeration facilities and Industrial safety including food safety, Health, Work environment and First-aid. He is the Immediate Past President of ISHRAE Chennai Chapter

Date: 7<sup>th</sup> Jan, 2020

Time: 2:00 p.m. – 3:30 p.m.

Chief Guest &amp; Installation Officer

**Mr. K Thirunavukkarasu - Regional director(South-2)**

Registration Link:

[https://us02web.zoom.us/webinar/register/WN\\_8UewnLgaTZGZUFPrXt8eWA](https://us02web.zoom.us/webinar/register/WN_8UewnLgaTZGZUFPrXt8eWA)
**Mr. Sk Muneer**

President

**Mr. K V T Prasad**

Student Chair

**Dr. P Vijay Kumar**

ISHRAE co-ordinator, LBRCE

**Dr. S Pichi Reddy**

HOD, ME Dept, LBRCE

Corporate  
sponsors**RSVP****Saandeevani Vajje,**Program Chair, Vijayawada chapter  
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**EXPERT SPEAKER**



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Saandeepani Vajje, Program Chair has started screen sharing



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Saandeepani Vajje, Program Chair



Mr. Vijayabaskaran

# "COLDCHAIN 4 LIFE"



## Learning objectives.

- **Introduction to Blood cold chain.**
  - The blood cold chain system & process
  - Temperature monitoring devices.
  - Blood cold chain equipment
- **Introduction to vaccine cold chain.**
  - Vaccine cold chain system.
  - Vaccine cold chain equipment and vaccine transport equipment .
  - Immunization schedule,

Saandeevani Vajje, Program Chair's screen



## Blood facts

- Our country needs 4 Crore units of blood every-year and what we have is only 40 lakh units of blood.
- This is a huge difference and many people are still apprehensive including youngsters.
- Every two seconds some needs blood.
- More than 38,000 blood donations are needed every day.



## Blood Transfusions

Blood Type	%	Receive Blood?	Give Blood?
O+	37%	O+, O-	O+, A+, B+, AB+
O-	6%	O-	Any Type
A+	34%	O+, O-, A+, A-	A+, AB+
A-	6%	O-, A-	A+, A-, AB+, AB-
B+	10%	O+, O-, B+, B-	B+, AB+
B-	2%	O-, B-	B+, B-, AB+, AB-
AB+	4%	Any Type	AB+
AB-	1%	O-, A-, B-, AB-	AB-, AB+



## The “Blood-Cold chain”

- The cold chain is the system for storing and transporting blood and blood products ,within the correct temperature (+ 2 °C to 6 °C) range and conditions, from the point of collection from **blood donors to the point of transfusion to the patient.**



## Blood cold chain equipment

- Ultra low temperature Plasma freezer @ - 80°C
- Internal capacity of 200 litres to 800 litres.
- Insulation is an essential part of the ultra freezer.
- Cascade solution. 2 (two) Refrigeration circuits connected.
- **Eco friendly Refrigerants R170 R 23 AND R290**



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### ICE PACKS @ -15°C

- Icepacks are key components of the cold chain.
- Used for ice lining inside the cold box and vaccine carrier.
- Frozen at DF @ -15°C

Ice packs



Chats



Raise Hand



Q&A



More





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🔇 Siva Chenna Kesava Tallada



Mr. Thirunavukkarasu



Surya Sai Kumar Kuchibhotla

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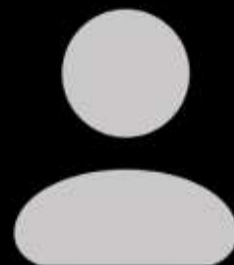
GOPINATH GOLI



SASIKANTH KORADA



Gabriel Bussa



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