Sri
SAI RAM ENGINEERING COLLEGE
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Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in

Distinguished Lecture Program

on

Noise Sources in Electric Vehicles

Student Coordinators

(Student Members /Electromagnetic Compatibility Society)

1. Kaushik (III ECE A)
2. Yeshwanth (III ECE A)
3. Anuradha (III ECE D)

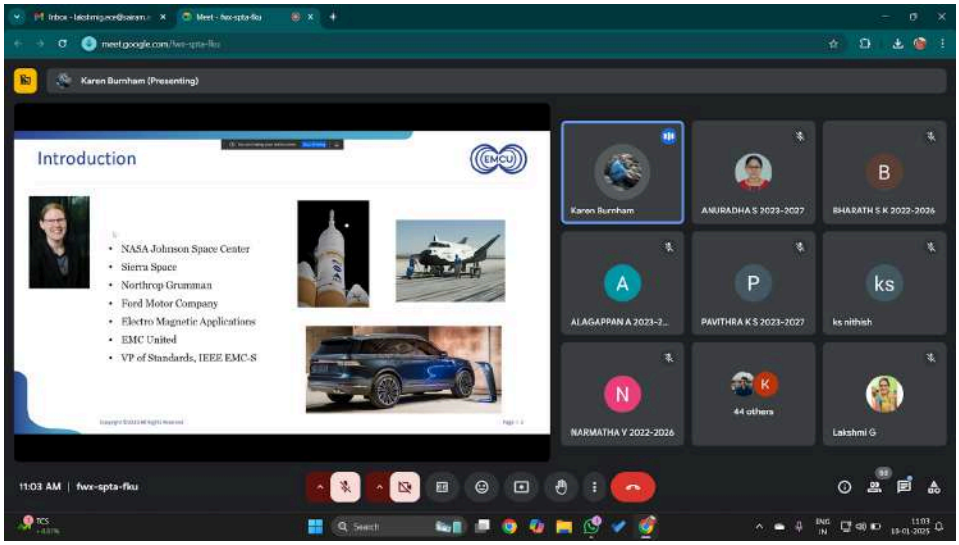
Event Coordinator

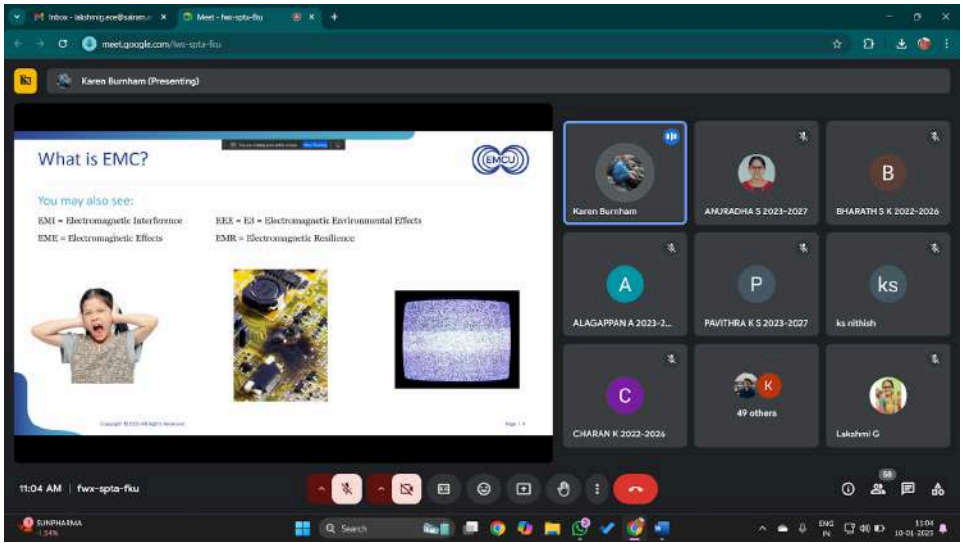
Rashmi A/AP/ECE/SEC

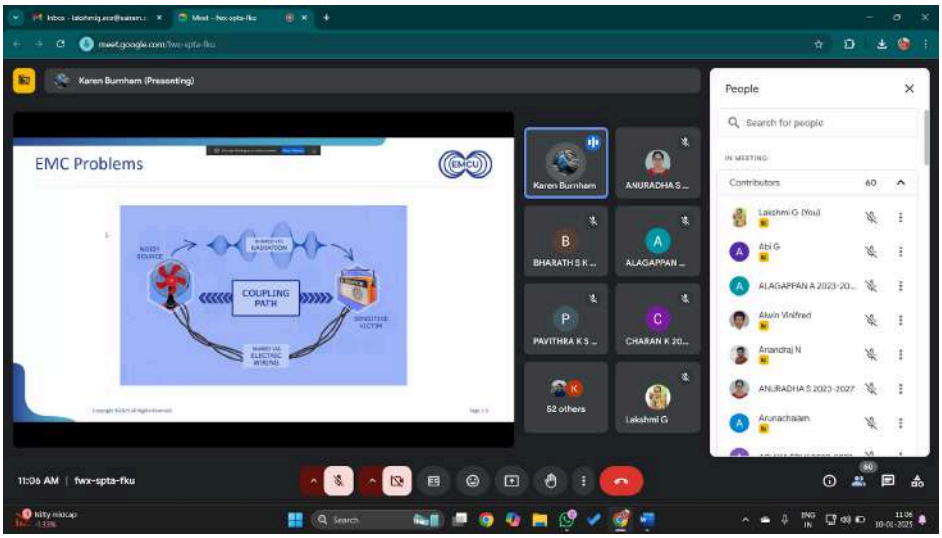
Lakshmi G/AP/ECE/SEC

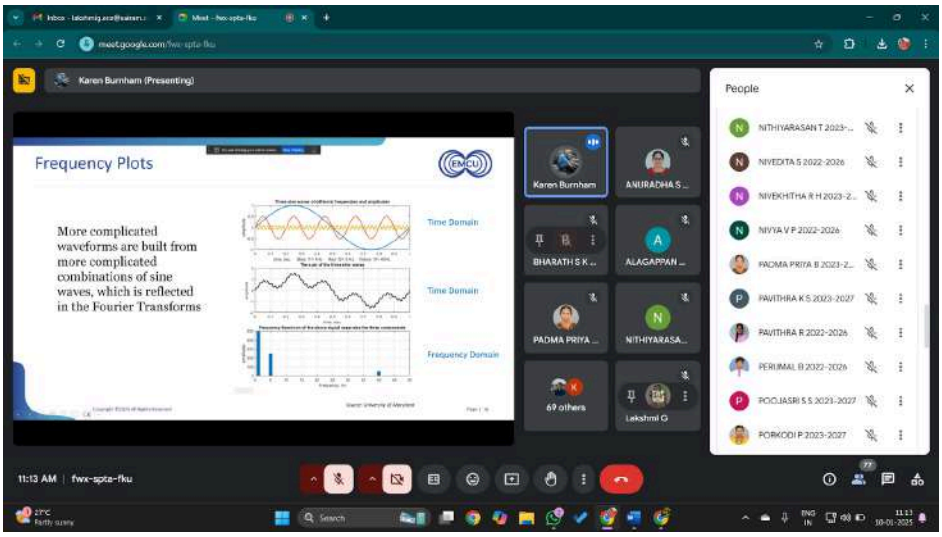
Member / Electromagnetic Compatibility Society

The Department of Electronics and Communication Engineering organized distinguished workshop for 2nd year students. Total 90 students attended the online session and learned about Noise source in electric vehicles.




Karen Burnham (Presenting)
What is EMC?
You may also see:
EMI = Electromagnetic Interference
EME = Electromagnetic Effects
EEE = EI = Electromagnetic Environmental Effects
EMR = Electromagnetic Resilience
Karen Burnham
ANURADHA S 2023-2027
BHARATH S K 2022-2026
ALAGAPPAN A 2023-2...
PAVITHRA K S 2023-2027
ks nithish
CHARAN K 2022-2026
49 others
Lakshmi G
11:04 AM | fwx-spta-fku


Karen Burnham (Presenting)
EMC Problems
COUPLING PATH
People
Search for people
Contributors 60
Lakshmi G (You)
Abi G
ALAGAPPAN A 2023-20...
Alwin Winfred
Arvindraj N
ANURADHA S 2023-2027
Arunachalam
52 others
11:06 AM | fwx-spta-fku


Karen Burnham (Presenting)
Frequency Plots
More complicated waveforms are built from more complicated combinations of sine waves, which is reflected in the Fourier Transforms
Time Domain
Time Domain
Frequency Domain
People
NITHIYARASAN T 2023-...
NIVEDITA S 2022-2026
NIVEKHITHA R H 2023-2...
NIYYA V P 2022-2026
PADMA PRIYA B 2023-2...
PAVITHRA K S 2023-2027
PAVITHRA R 2022-2026
PERUMAL B 2022-2026
POOJASRI S S 2023-2027
PORKODI P 2023-2027
69 others
11:13 AM | fwx-spta-fku

Organized by : **Department of Electronics and Communication Engineering, Sri Sairam Engineering College, Chennai.**

Date and Time : **10th January 2025, 11:00 AM**

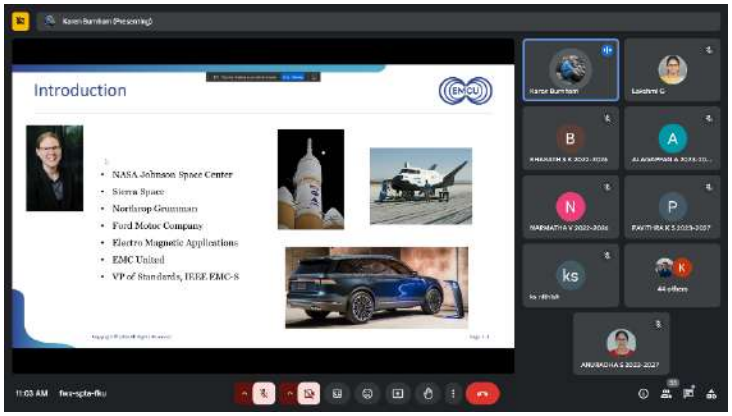
Mode : **Online**

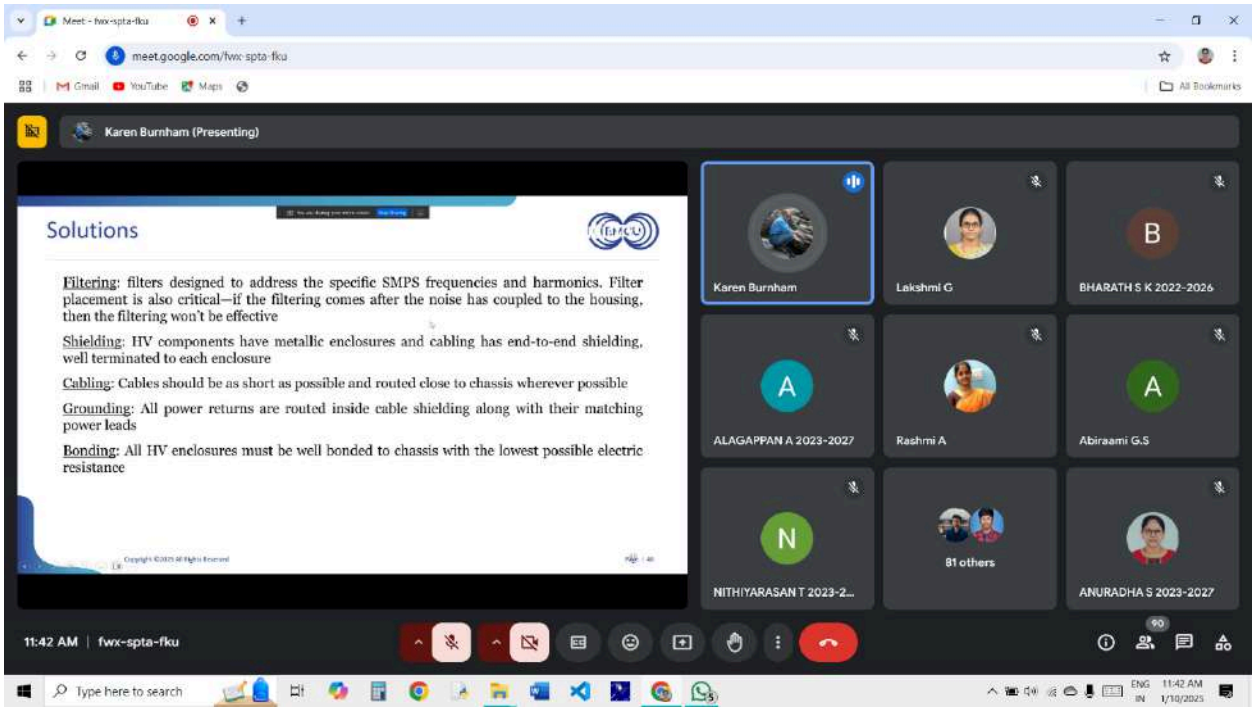
Event ID : **SEC202501IEEEEMS01**

About the Resource Person

Karen Burnham:

1. **Expert in Electromagnetic Compatibility (EMC):** Over 25 years of experience in aerospace, defense, and automotive industries.
2. **Key Roles:** President and Chief EMC Engineer at EMC United, Inc., and Vice President of Standards for the IEEE EMC Society.
3. **Notable Projects:** Lead EMC Engineer for NASA's Dream Chaser space vehicle, EMI Test Director at Northrop Grumman, and EMC testing for hybrid and electric vehicles at Ford Motor Company.
4. **Technical Expertise:** Specializes in EMC noise analysis, antenna design, RF susceptibility, and lightning protection systems.
5. **Professional Recognition:** iNARTE-certified EMC Engineer, IEEE Senior Member, and Distinguished Lecturer for the IEEE EMC Society.
6. **Educational Background:** Holds a Master's degree in Electrical Engineering from the University of Houston and a Bachelor's degree in Physics from Northern Arizona University.





Event Highlights

Introduction to Noise Sources in EVs:

- Overview of the common electromagnetic noise sources in electric vehicles.
- Explanation of how these noise sources impact vehicle performance and user safety.

Role of EMC in Automotive Engineering:

- Importance of EMC compliance in EV design.
- Examples of real-world EMC issues in automotive and consumer electronics.

Mitigation Strategies:

- Innovative techniques and best practices for controlling noise in EVs.
- Tools and methodologies for EMC analysis and testing.

Interactive Q&A Session:

- The participants had the opportunity to discuss practical challenges with the resource person.

Conclusion

The program was highly informative and beneficial for students and professionals interested in electric vehicles and EMC. The online mode facilitated a wide reach, allowing participants to engage with a global expert in the field.