

THE AIMHHA GLOBAL WORKSHOP SERIES

ANNOUNCING OUR SECOND GLOBAL WORKSHOP

FROM MATERIALS TO MANUFACTURING

Next-Gen Industrial Heating

ADVANCED MICROWAVE PROCESSING AND APPLICATION DEVELOPMENT



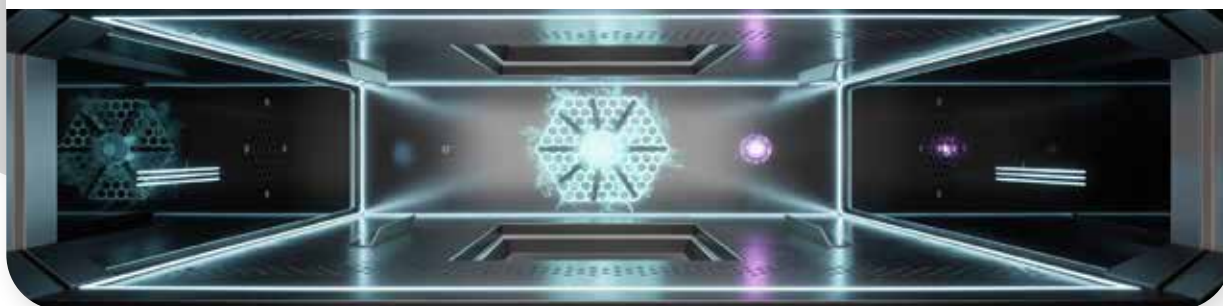
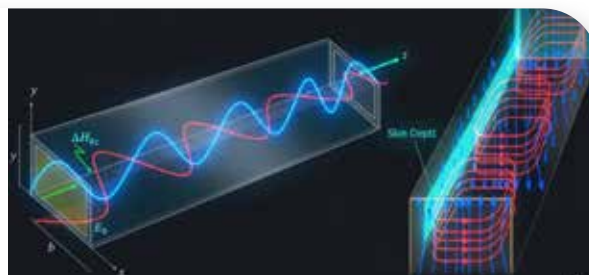
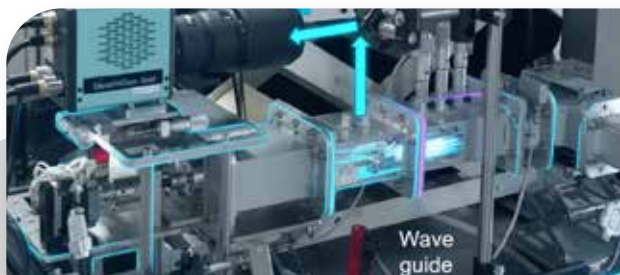
Saturday,
December 13, 2025



10:00 AM –
5:40 PM (IST)



Online
Workshop (Free)



Workshop Schedule

Opening Session

10:00AM – 10:10 AM

Opening Remarks by Mr. John F. Gerling

10:10AM – 11:00 AM

Performance of Reactive Chokes for Conveyorized Processing Systems

Mr. John F. Gerling, Gerling Consulting, Inc., USA

11:00 AM – 11:50 AM

Microwaves in Manufacturing: Fundamentals, Resource Efficiency and Challenges

Prof. Apurbba Kumar Sharma, Indian Institute of Technology (IIT) Roorkee, India

Break (11:50 AM – 12:00 PM)

12:00 PM – 12:50 PM

Localized Microwave-Heating (LMH) Phenomena and Applications:

Intentional Hotspot Formation, Drilling and Cutting, Dusty-Plasma Ejection, Thermite Ignition, Basalt Melting, and Incremental Solidification of Metal Powders (Additive Manufacturing)

[Prof. Eli Jerby](#), Tel Aviv University, Israel

Lunch Break (12:50 PM – 2:00 PM)

2:00 PM – 2:50 PM

Labs and Industrial Applications of MW and RF Machines

[Mr. Jean Paul Bernard](#), Microwave Industrial Solutions, France

2:50 PM – 3:40 PM

Development of Innovative Food Processing Operations Using Microwaves

[Dr. P. P. Sutar](#), National Institute of Technology Rourkela, India

Break (3:40 PM – 3:50 PM)

3:50 PM – 4:40 PM

Microwave Processing of Polymer Composites

[Dr. Gaurav Kumar](#), Assistant Professor, National Institute of Technology Rourkela, India

4:40 PM – 5:30 PM

Microwave-Assisted Additive Manufacturing of Materials

[Dr. Radha Raman Mishra](#), Birla Institute of Technology and Science Pilani, India

5:30 PM – 5:40 PM

Closing remarks, panel discussion, and a look ahead to the future of AIMHHA.

Register Today (Free)



Join us for this landmark global event. Visit our website to register and be a part of the future of microwave technology in India.

www.aimhha.org

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Become a AIMMHA member today ([CLICK HERE](#))

MEET OUR ESTEEMED SPEAKERS

LEADING VOICES IN

ADVANCED MICROWAVE PROCESSING & APPLICATION DEVELOPMENT

We are honored to present a lineup of distinguished global experts who are pioneering the future of industrial heating technologies.



Mr. John F. Gerling
Gerling Consulting, Inc., USA

Past President, International Microwave Power Institute

With over 40 years of experience, Mr. Gerling is a leading authority in engineering products for consumer, industrial, and scientific microwave heating. He is an inventor on several patents and founded Gerling Applied Engineering, a leading manufacturer of industrial microwave equipment.



Prof. Apurbba Kumar Sharma
Indian Institute of Technology (IIT)
Roorkee, India

Prof. Apurbba Kumar Sharma is a Professor in the Department of Mechanical and Industrial Engineering at the Indian Institute of Technology (IIT) Roorkee. His research interests include micromachining and the application of microwave energy in processing ceramics. He has supervised numerous Ph.D. and Master's students and has been recognized for his research contributions.



Prof. Eli Jerby
Tel Aviv University, Israel

Dr. Eli Jerby is a Professor Emeritus at Tel Aviv University, Faculty of Engineering, where he has studied various aspects of microwave engineering, plasma physics, and material processing. He and his research team discovered new interactions of electromagnetic radiation with materials, intentionally excited by localized microwave-heating (LMH), such as the fire-column and fireball ejection from solids in air. His inventions and studies include the development of novel LMH-based applications, like the microwave-drill invention, 3D-printing techniques, nano-powder production, and more. Recently, Dr. Jerby has established a new independent laboratory, branded E.J. R&D Lab., to pursue industrial cooperations for research and development towards commercialization.



Mr. Jean Paul Bernard
Microwave Industrial Solutions, France

With over 40 years of experience, Mr. Jean Paul Bernard is a leading authority in industrial microwave and radio frequency technologies. He began his career in 1980 with THOMSON MICROWAVES and was the Associate & Managing Director of SAIREM for 36 years. Currently, he leads Microwave Industrial Solutions (MIS) as a consultant, specializing in a wide range of processes including food, rubber, and chemistry. He is an expert in optimizing industrial machines and training customers on MW and RF technologies.



Prof. Parag Prakash Sutar
National Institute of Technology
Rourkela, India

A distinguished researcher in Food Process Engineering, Dr. Sutar is recognized for his work in applying microwave technology for thermal processing and dehydration. He has developed advanced hybrid techniques, including microwave vacuum drying and steam-impinged microwave blanching. He developed alternative food engineering applications using microwaves.



Dr. Gaurav Kumar
National Institute of Technology
Rourkela, India

Dr. Gaurav Kumar is an Assistant Professor in Mechanical Engineering at NIT Rourkela and holds a Ph.D. from IIT Roorkee. His research specializes in advanced manufacturing processes and microwave materials processing. He has contributed significantly to areas such as microwave drilling and the development of advanced composite materials for industrial applications.



Dr. Radha Raman Mishra
Birla Institute of Technology and Science
Pilani, India

Dr. Radha Raman Mishra is an Assistant Professor of Mechanical Engineering at BITS Pilani. He holds a Ph.D. from IIT Roorkee and an M.Tech. from IIT BHU. His experience includes an international role as an Honorary Senior Visiting Lecturer at the City University of London and work as a Project Officer at the Design Innovation Centre, IIT Roorkee. He is recognized as a leading voice in mechanical engineering, specializing in research, innovation, and global academia.



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