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The IEEE Strategic Electromagnetic Systems Conclave 2026

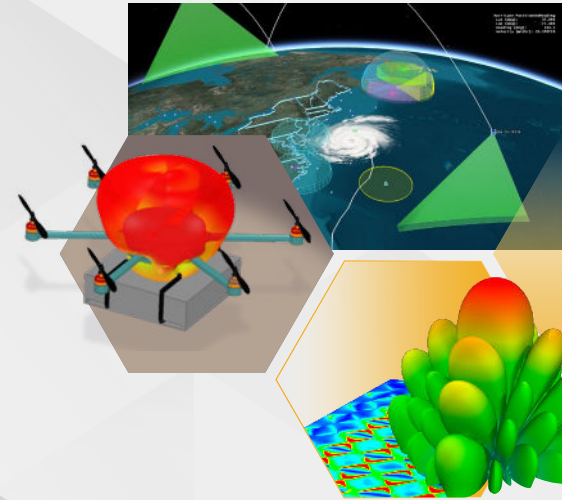
Hosted by the IEEE AP/MTT Joint Bangalore Chapter and Ansys (Part of Synopsys)



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- 📅 April 14, 2026
- 🕒 09:00 am - 06:30 pm (IST)
- 📍 Near Baiyappanhalli Metro Station, Swami Vivekanand Road, Bengaluru

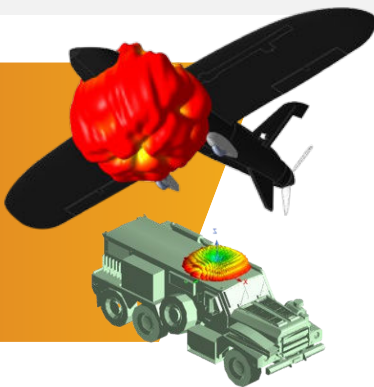
Express Interest **Entry by Invitation only**



The IEEE Strategic Electromagnetic Systems Conclave - Hosted by the IEEE AP/MTT Joint Bangalore Chapter and Ansys (Part of Synopsys) - will be held on April 14, 2026, in Bengaluru. This focused technical forum brings together leaders from aerospace and defense organizations, private industries, and the fast-growing RF, microwave startup ecosystem and prestigious academic intuitions to discuss next-generation challenges and opportunities in electromagnetic (EM) system design.

With a strong emphasis on antennas, phased arrays, RF front-end systems, radar, communication systems, AI ML and Digital Twins the conclave will explore emerging technologies, modern design bottlenecks, and the role of advanced simulation in accelerating RF system development. The program includes invited talks, expert panels, and demonstrations showcasing how digital engineering and high-fidelity EM simulation are reshaping the RF product lifecycle.

By convening multidisciplinary stakeholders, the conclave aims to strengthen collaboration, inspire innovation, and promote scalable EM design and validation practices—ultimately helping build a more robust, future-ready RF ecosystem for India and beyond



Core Themes

- **Radar, Sensing & EW Technologies**
Trends in SAR, RCS prediction, stealth, and modern sensing.
- **Advanced RF & Antenna Systems**
Innovations in antennas, arrays, and integrated RF subsystems.
- **Digital & Simulation-Driven EM Design**
Modern workflows accelerating accurate RF development.

Executives



Dr. B K Das
Distinguished Scientist and
Director General ECS



Dr. Abhay A Pashilkar
Director, CSIR-NAL



M. Sheik Althaf
OS & Director, LRDE,
DRDO

Agenda

09:00 - 09:30	Welcome and Registration
09:30 - 09:35	Introduction & Welcome Dr. Chengappa Munjandira, Treasurer- IEEE AP-S/MTT-S JT Chapter, Chair 2027, IEEE Bangalore Section
09:35 - 09:45	Invocation and Lamp Lighting Dr. Sujata Gupta Kedar, Sushma BR
09:45 - 09:55	Chair's Address Dr. Ashutosh Kedar, Chair-IEEE AP-S/MTT-S JT Chapter, Bengaluru & MTT-S India Business Committee
09:55 - 10:00	Welcome Address Murali Pullela, Area Sales Director, Synopsys
10:00 - 10:30	Keynote Address Chief Guest: Dr. B. K. Das, ECS
10:30 - 10:40	Address by IEEE AP-S President C J Reddy
10:40 - 10:50	Address by IEEE MTT-S President Anding Zhu
10:50 - 11:10	Address by Chair and Vice Chair MGA MTT-S Jasmin Grosinger and Chinmoy Saha
11:10 - 11:30	Vote of Thanks Mahesh A, Vice Chair- IEEE AP-S/MTT-S JT Chapter Bengaluru
11:30 - 11:45	Tea Break
11:45 - 12:05	Plenary Talk M. Sheikh Althaf, OS & Director-LRDE, DRDO
12:05 - 12:25	Plenary Talk Dr. Abhay Phashilkar, Director CSIR-NAL
12:25 - 12:45	Technical Talk- From Simulation to Intelligence: Physics-Enabled Synthetic Data for Radar & Communication AI/ML Arien Sligar, Synopsys
12:45 - 13:00	Invited Talk- Next-Generation Aircraft Design: Transforming Electromagnetic Simulations with AI/ML Dr. Vijay Kumar Sutrar, FRAeS, FIE Scientist 'F' & Head – Stealth Technologies Division Aeronautical Development Establishment, ADE, DRDO
13:00 - 14:15	Lunch Break
14:15 - 14:30	Technical Talk- Pushing Boundaries of Electromagnetic Simulation with SBR Methods Stefano Canta, Principal R&E Engineer, Synopsys
14:30 - 14:45	Invited Talk- Generative AI for the Design of Electromagnetic Absorbers Vineetha Joy, Principal Scientist- Centre for Electromagnetics, CSIR-NAL
14:45 - 15:00	Invited Talk- An Electromagnetic Perspective on Space-Time Modulated Transmission Lines and Metasurfaces Dr Debdeep Sarkar, Asst Professor- Dept of ECE, IISc
15:00 - 15:15	Invited Talk Dr. A Ranganath Harish, Professor- Dept of Electrical Engineering, IIT Kanpur
15:15 - 15:30	Invited Talk- Accelerating Aircraft and UAV Lightning Strike & HIRF Compliance Using EM Simulations Ryan French, Computation Engineer, EMA Inc
15:30 - 15:45	Tea Break
15:45 - 16:15	Plenary Talk- Role of EM Driven simulations in Phased Array Antennas: State-of-the-art and Recent Trends Dr Ashutosh Kedar, Sc G & Project Director LRDE. Chair-IEEE AP-S/MTT-S JT Chapter, Bengaluru & MTT-S India Business Committee
16:15 - 16:30	Invited Talk Dr. P Radhakrishna, Distinguished Scientist & Former Director- LRDE, DRDO
16:30 - 17:30	Panel Discussion- From Simulation to Sovereignty: Building India's Atmanirbhar Electromagnetic Systems Ecosystem 1. Dr. P Hanumantha Rao, DG SAMEER 2. Dr. Surendra Pal , Retd VC-DIAT 3. Suresh SD, Sc G LRDE 4. Dr. Ashutosh Kedar, Sc G & Project Director LRDE 5. Vamsi Krishna, Director- Electronics Engg, Synopsys 6. Puneet Mishra, Sc 'SG' URSC 7. Moderator- Dr. M C Chengappa
17:30 - 18:20	Industry Session - Moderated by Shital Joshi, Senior Director Technical, Synopsys Neeraj Kumar (CEO) - Accordyne Sujith (CEO)- ICON Electromagnetics Debaprasad Barad (R&D Manager) - Astra Microwave Ankit Sharma (GM- Systems & RF) - Vehant Technologies Tamilarasan (CEO) - PhaseAmp Labs
18:20 - 18:30	Valedictory

Speakers



Dr. P. Hanumantha Rao
Director General,
SAMEER



Arien Sligar
Sr. Director-
Technical Product Management,
Synopsys



Stefano M Canta
Principal R&D Engineer,
Synopsys



Dr. A Ranganath Harish
Professor-
Dept of Electrical Engineering,
IIT Kanpur



Vineetha Joy
Principal Scientist-
Centre for Electromagnetics,
CSIR-NAL



Dr. Vijay Kumar Suttrakar
FRAeS, FIE Scientist 'F' &
Head – Stealth Technologies
Division Aeronautical Development
Establishment, ADE, DRDO



Dr Debdeep Sarkar
Asst Professor-
Dept of ECE, IISc



Puneet Mishra
Sc 'SG' URSC



Murali Pulela
Area Sales Director,
Synopsys



Dr Ashutosh Kedar
Sc G & Project Director
LRDE. Chair-IEEE AP-S/MTT-S
JT Chapter, Bengaluru & MTT-S
India Business Committee



Ryan French
Computation Engineer,
EMA Inc



Dr. P Radhakrishna
Distinguished Scientist
& Former Director Electronics
& Radar Development
Establishment (LRDE),
DRDO



Shital Joshi
Senior Technical Director,
Synopsys



Suresh SD
Sc G LRDE



Dr. Surendra Pal
Retd VC-DIAT



Vamsi Krishna
Director-
Electronics Engg,
Synopsys

What Attendees Will Learn

- How cutting-edge EM simulation and digital workflows reduce design iterations, cost, and development timelines for complex RF systems.
- Best practices for designing, optimizing, and validating antennas, arrays, radar systems, and RF subsystems using modern computational tools.
- Key industry trends, technology gaps, and future opportunities shaping India's RF and microwave ecosystem across aerospace, defense, and commercial sectors.

Organizing Committee



Dr Ashutosh Kedar
Sc G & Project Director
LRDE. Chair-IEEE AP-S/MTT-S
JT Chapter, Bengaluru & MTT-S
India Business Committee



Atul Borkar
Head-
Aerospace & Defence (S&A),
Ansys (part of Synopsys)



Dr. Chengappa Munjandira
Treasurer, IEEE AP-S/MTT-S
Jt. Chapter, Chair 2027,
IEEE Bangalore Section



Mahesh A
Vice-Chair,
IEEE AP-S/MTT-S Jt. Chapter,
Bangalore



Nijas Kunju
Principal-Engineer-
Applications Engineering,
Ansys (part of Synopsys)



Parameshachari B D
Secretary,
IEEE AP-S/MTT-S Jt. Chapter,
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