



Active Array Antennas

Abstract

The workshop is being organised as an activity of the EurAAP Working Group on Active Array Antennas. At the EuCAP 2023 workshop, there will be presentation by 3 industrial partners (Thales Alenia Space, SAFRAN, ExtremeWaves) on current activities for phased arrays for Space and 5G. The workshop will be completed by 1 research institute (TNO) and 1 university (Michigan State University) on the possibilities offered by phased arrays for radar. The workshop will end with a panel discussion.

Workshop outline:

The program of the workshop will include five technical presentations and a panel discussion:

10 min	Welcome introduction
30 min	“Active antennas for telecom space applications from GEO to LEO – Challenges and enabling concepts”, Jean-Philippe FRAYSSE, Thales Alenia Space, USA
30 min	“Challenges for active array antennas”, Stefania Monni (TNO), The Netherlands
30 min	“Wavelength-level wireless coordination in distributed phased arrays using spectrally-sparse signals”, Jeffrey Nanzer, Michigan State University, USA.
20 min	Coffee break
30 min	"Building High Performance Affordable SATCOM and wideband SATCOM using silicon chips" Gabriel Rebeiz (UCSD), Gokhan Gultepe (Extreme Waves), Kevin Low (Extreme Waves), Qian Ma (Extreme Waves), Oguz Kazan (UCSD), Zhaoxin Hu (UCSD) UCSD: ECE Department, University of California, San Diego, La Jolla, CA 92093 Extreme Waves: 12348 High Bluff Drive Suite 100, San Diego, CA 92130 Gabriel Rebeiz: rebeiz@ece.ucsd.edu, Tel: 858-336-3186
30 min	“Current developments on Ka-band wide-angle scanning AESAs”, Benoit Lesur, SAFRAN, France.
40 min	Panel discussion (moderators: Daniele Cavallo, Mauro Ettore, Bart Smolders.



**The 17th European Conference on
Antennas and Propagation
(EuCAP)
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key speakers

The speakers are internationally recognised experts in antenna technologies for mm-wave communication applications.

- Jean-Philippe FRAYSSE, Antenna/MMIC Expert, Thales Alenia Space, USA
- Stefania Monni, Antenna Expert, TNO, NL
- Jeffrey Nanzer, Associate Professor, Michigan State University, USA
- Gabriel Rebeiz, Professor, University of California, San Diego, USA
- Benoit Lesur, MMIC expert, Safran, USA