

Message From the Technical Program Chair

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Welcome to the 4th *IEEE International Symposium on Phased Array Systems & Technology* (www.array2010.org), being held October 12-15, 2010 in Boston, Massachusetts, USA. I urge you to attend and actively participate in the symposium.

Modern phased array antennas for radar, communications, and other applications are complex systems that require significant knowledge of electromagnetic field theory, antenna element design, active and passive microwave circuit technology, solid-state transmit/receive (T/R) modules, beamforming, beamsteering control, adaptive signal processing, as well as antenna measurement and calibration techniques.

Many new developments in high-performance phased array radar and communications systems will be presented at this conference, as well as other applications for phased arrays including radio astronomy.

This *2010 IEEE International Symposium on Phased Array Systems & Technology* is the 4th IEEE-sponsored international symposium devoted to phased array antenna systems and technology. The first symposium was held in Boston, Massachusetts, USA in 1996. The 2000 symposium was held in Dana Point, California. The third symposium returned to Boston in 2003. Three prior symposiums dedicated to phased arrays were held in 1964 (sponsored by Rome Air Development Center (RADC)), 1970 (sponsored by the U.S. Army Advanced Ballistic Missile Defense Agency, MIT Lincoln Laboratory, and the Polytechnic Institute of Brooklyn), and 1985 (sponsored by RADC, MITRE, and the University of Massachusetts).

The 2010 symposium will cover four days and include eight tutorial sessions, 21 oral presentation sessions including plenary and special

sessions, and four poster sessions. *Approximately 200 papers are scheduled for presentation at the 2010 symposium, which is nearly double the number of papers presented at the 2003 symposium.*

I express my gratitude to the members of the Technical Program Committee and the members of the Symposium Organizing Committee in producing a program that provides a wealth of technical information regarding the present and future trends of phased array antenna systems.