

## Message from the Conference General Chairman



**Dr. David L. Briggs**

The Steering Committee welcomes you to the IEEE 2007 Radar Conference. This conference is dedicated to showcasing innovations and the latest achievements in radar systems and technology from research to radar construction. It offers both old and new workers in the field the opportunity to learn, and to meet and interact with colleagues. The Technical Program Committee has worked diligently to provide breadth and quality to the conference program. Attendance at the conference should be both productive and enjoyable.

This year's conference begins and ends with tutorials on Tuesday and Friday mornings. The technical sessions start Tuesday afternoon with distinguished speakers, followed by an extensive two days of technical sessions along with poster sessions. In addition to the conference reception and banquet on Wednesday evening, this year's conference attendees are invited to a Boston-Area IEEE "Women in Engineering" reception on Tuesday evening at the hotel. On Friday morning there is also an opportunity for attendees to tour nearby facilities.

The conference continues to grow and this year completely utilizes the facilities of the Boston-Waltham Westin Hotel. In addition to the technical sessions, take time to locate and visit the poster sessions and the exhibits. We are fortunate to have firms that are sponsoring a number of the conference activities for attendees.

Because the conference starts on Tuesday, attendees may want to enjoy some of the excitement of the Monday's Patriot Day holiday in Massachusetts including the running of the Boston Marathon. The conference also has a hospitality room for companions of conference attendees, and a tour of historic sites is available on Wednesday morning.

Again, welcome to the Radar Conference 2007.

## Message from the Technical Program Chairman



**Dr. Eli Brookner**

Many think that since radar has been around a long time, it is a mature field with nothing new to research or learn. I thought the same thing when I entered the field in the 1950s. Nothing was further from the truth then or is further from the truth now. Since I began my career, amazing new developments have taken place. Radar processing has benefited from Moore's Law and new technologies that have developed, such as MMIC GaAs T/R modules and active electronically steered phased arrays. This conference will cover many new and exciting research developments in the broad field of radar engineering.

We kick-off the Technical Program Tuesday afternoon with the Radar Systems Plenary Session consisting of eight well-known and distinguished speakers. Following the Plenary Session, there will be a reception sponsored by the IEEE "Women in Engineering (WIE)". The featured speaker at the reception will be the famous Prof. Mildred Dresselhaus, Institute Prof. and Prof. of Physics and Electrical Engineering at MIT.

In addition to the Plenary Session, there are 18 exciting sessions with over 180 papers and posters covering a range of topics including systems engineering, radar hardware, antennas, signal and data processing, radar modeling, devices, waveform design, SAR, OTH, and other radar topics. Many of the papers in these sessions are invited and will be chaired by renowned radar engineers. Included in these sessions are 24 student papers that will compete for a best student paper award. Wednesday evening, we will look forward to relaxing at the reception and banquet during which we will network, say hello to old colleagues, and make new friends.

The conference also has eight excellent tutorials given by prominent lecturers, four on Tuesday morning and four on Friday morning. There are also two outstanding tours scheduled for Friday morning, one to the MIT Lincoln Laboratory Haystack Radar and the other to the Raytheon Integrated Air Defense Center.

The symposium dates have been chosen to coincide with the famous Boston Marathon and the Patriots Day reenactments of the 1775 birth of the nation (Paul Revere's ride, Battle on the Lexington Green, Battle at North Bridge in Concord). We encourage attendees to take advantage of the opportunity to see these colorful and historic activities.

Come and enjoy what should be a historic symposium, as well as the Boston Marathon, historic sights and reenactments, and the gorgeous surroundings of the Boston area. I personally look forward to meeting you at the symposium.