

# 2010 Asilomar Conference Session Schedule

Coffee breaks will be at 9:55 AM and 3:10 PM. (Except Monday morning when refreshments will be served outside Merrill Hall from 9:45–10:15 AM)

**Monday, November 8, 2010**

## **CONFERENCE WELCOME AND PLENARY SESSION 8:15 – 9:45 AM**

1. Welcome from the General Chairperson

**Prof. Linda DeBrunner**  
Florida State University

2. Session MA1a      Distinguished Lecture for the 2010  
Asilomar Conference

### **A Celebration of DSP Technology**

**Dr. Ronald W. Schafer**  
Multimedia Communication and Networking Lab  
Hewlett-Packard Laboratories  
Palo Alto, CA 94304

#### **Abstract**

DSP is an indispensable technology with widespread impact in many areas of application; however, it has taken 60 years or more to get to where we are today. Thus, it may be interesting and worthwhile to take a look at how the DSP technology domain originated and evolved. In this talk, I will look back at some of what I consider to be the most important milestones and the people behind them, examine some of the key interactions with other technologies, consider the importance of unfettered application-centric research, and comment on the importance of education in the evolution of DSP. The goal of this analysis is to provide a platform from which to admire and celebrate the past progress and make guesses about what the future might hold for the field of DSP.

#### **Biography**

**Ronald W. Schafer** received BSEE (1961) and MSEE (1962) degrees from the University of Nebraska and a Ph.D. (1968)

degree from MIT. From 1968 to 1974 he was a member of the Acoustics Research Department, Bell Laboratories, Murray Hill, NJ, where he contributed to some of the earliest research on digital signal processing. In 1974 he joined Georgia Tech as John and Marilu McCarty Professor of Electrical and Computer Engineering. Over a thirty-year academic career, he introduced literally thousands of students to the field of digital signal processing and supervised graduate student research in speech processing, image processing, biomedical signal processing, and communication signal processing. He played a major role in establishing the Center for Signal and Image Processing at Georgia Tech as a major force in DSP education and research, and in 1982 he co-founded Atlanta Signal Processors, Inc., one of the first companies to provide design tools for DSP systems.

Dr. Schafer retired from Georgia Tech as Professor Emeritus in 2004. Now he is a HP Fellow in the Multimedia Communication and Networking Laboratory at Hewlett-Packard Laboratories in Palo Alto, CA, where his research focuses on acoustic signal processing and immersive communications.

Dr. Schafer is a Fellow of the IEEE and the Acoustical Society of America, and he is a member of the National Academy of Engineering. He has co-authored numerous widely used textbooks including *Digital Signal Processing* (1975), *Digital Processing of Speech Signals* (1978), *Signal Processing First* (2003), *Discrete-Time Signal Processing* (2009), and *Theory and Application of Digital Speech Processing* (2010). He has received numerous awards for teaching and research including the 1985 Distinguished Professor Award from Georgia Tech, the 1980 IEEE Emanuel R Piori Award, the 1992 IEEE James H. Mulligan, Jr. Education Medal, and he received the 2010 IEEE Jack S. Kilby Medal.