

Conference Record of
The Thirty-Fourth Asilomar
Conference on Signals, Systems &
Computers

October 29-November 1, 2000

Pacific Grove, California

Edited by

Michael B. Matthews, *Monterey Bay Aquarium Research Institute*

In Cooperation With

*The Naval Postgraduate School, Monterey, California
Monterey Bay Aquarium Research Institute
The IEEE Signal Processing Society*

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Conference on Signals, Systems &
Computers

Foreword

The *Thirty-Fourth Annual Asilomar Conference on Signals, Systems, and Computers* was held October 29 – November 1, 2000 at the Asilomar Hotel and Conference Grounds, Pacific Grove, California. The conference was organized in cooperation with the Naval Postgraduate School, the Monterey Bay Aquarium Research Institute, and the IEEE Signal Processing Society.

The conference was devoted to the presentation of new ideas and preliminary research results in the area of theoretical and applied signal and image processing such as wavelets, filter banks, detection and estimation, sensors, neural networks, adaptive signal processing, VLSI, compression, communications, and multimedia techniques.

The papers contained in this record were selected after careful screening from many excellent submissions. The members of the 2000 Conference Committee were:

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We wish to express our gratitude to the attendees, authors, session chairs, organizers, and reviewers, whose interest and efforts contributed greatly to the success of the conference.

Michael B. Matthews, *Editor*

General Chairs and Technical Program Chairs for the First Thirty Four Asilomar Conferences 1967 to 2000

Year	General Chairman	Technical Chairman
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Asilomar Conference on Circuits and Systems

1967	Sydney R. Parker and Richard C. Dorf	
1968	Sydney R. Parker and Richard C. Dorf	Shu Gar Chan
1969	Sydney R. Parker	Robert W. Newcomb Shu Park Chan
1970	Shu Park Chan	Sanjit K. Mitra
1971	Sanjit K. Mitra	
1972	Shu Gar Chan	A. R. Bergen Alan Grebene

Asilomar Conference on Circuits, Systems and Computers

1973	John Choma	
1974	John Choma	L. P. McNamee
1975	D. D. Siljak	M. P. Ekstrom
1976	M. P. Ekstrom	H. A. Titus
1977	H. A. Titus	C.C. Hseith
1978	T. Kailath	Donald E. Kirk
1979	Donald E. Kirk	R. C. Wood
1980	Alan N. Willson, Jr.	Timothy J. Healy
1981	Timothy J. Healy	Stanley A. White
1982	Stanley A. White	Herbert Rauch
1983	Herbert Rauch	Mauro Dentino
1984	Mauro Dentino	Gene H. Hostetter
1985	Gene H. Hostetter	Samuel D. Stearns

Asilomar Conference on Signals, Systems and Computers

1986	Samuel D. Stearns	Adly T. Fam
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1991	Fredrick J. Harris	Neil K Jablon
1992	Neil K. Jablon	James Ritcey
1993	Dolores M. Etter	Rabinder Madan
1994	James Ritcey	Benjamin Friedlander
1995	Wasfy B. Mikhael	Michael Soderstrand
1996	Richard O. Duda	Earl E. Swartzlander, Jr.
1997	Earl E. Swartzlander, Jr.	Jerry D. Gibson
1998	W. Kenneth Jenkins	Georgios B. Giannakis
1999	Fred J. Taylor	Graham Jullien
2000	Sally L. Wood	Brian Agee

Conference Opening and Plenary Session



Plenary speaker Richard V. Cox (center) with General Chairperson Sally L. Wood (right) and Chairman of the Asilomar Conference Steering Committee Charles W. Therrien (left).

Internet Telephony

In February 1995, Vocal Tee produced the first Internet Protocol Telephone software. The call quality was poor but the phone calls were free. In that era Internet Telephony (IT) was compared to the CB radio craze of a generation ago. Those using, or working on, IT were referred to as the "lunatic fringe" by those in conventional telephony. Today, Internet Telephony is accepted as mainstream technology. IT has become the logical successor to the circuit switched telephony that evolved over the past 125 years. What is Internet Telephony and why has this rapid change happened?

Dr. Richard V. Cox is Research Vice President for Speech and Image Processing Services at AT&T Research Labs. He is a Fellow of the IEEE and President-Elect of the IEEE Signal Processing Society.

Awards Presentations



General Chairs and Technical Chairs of past Asilomar conferences were honored at the Opening Ceremony with the presentation of plaques bearing the inscription below. After the Conference Opening they gathered outside the chapel for a group photograph.
"The Asilomar Signals, Systems And Computers Conference Hereby Expresses Deep Appreciation For Outstanding Contributions Rendered."

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