**Allerton Plenary Speakers**

**1984 – 22nd Conference**

Professor Thomas Kailath, Stanford University, “Digital Filtering in VLSI”

**1985 – 23rd Conference**

Professor Richard M. Karp, University of California-Berkeley, “On the Complexity of Parallel Computation”

**1986 – 24th Conference**

Professor James L. Massey, Swiss Federal Institute of Technology, ETH-Zurich, “Crytography and System Theory”

**1987 – 25th Conference**

Professor W. M. Wonham, University of Toronto, “Logic and Language in Control Theory”

**1988 – 26th Conference**

Professor Jack Keil Wolf, University of California-San Diego, “New Results for Magnetic and Optical Recording Channels”

**1989 – 27th Conference**

Professor N. Pippenger, University of British Columbia, IBM Almaden Research Center, “The Complexity of Switching Networks”

**1990 – 28th Conference**

Professor Leslie Valiant, Harvard University, “A Bridging Model for Parallel Computation”

**1991 – 29th Conference**

Professor Dimitri Bertsekas, Massachusetts Institute of Technology, “Auction Algorithms for Network Problems”

**1992 – 30th Conference**

Professor Jean-Claude Latombe, Stanford University, “Assembly Planning”

**1993 – 31st Conference**

Dean, Dr. José B. Cruz, Jr., The Ohio State University, Dean of Engineering, after dinner speech, “The Origins of the Allerton Conference”

**1994 – 32nd Conference**

Professor D.G. Messerschmitt, University of California-Berkeley, Chairman of the Department of Electrical Engineering and Computer Science, “Signal Processing and Networking Are Intertwined, But Must Be Kept Separate”

**1995 – 33rd Conference**

Dr. Alan Laub, Chair, Department of Electrical and Computer Engineering, University of California-Santa Barbara, “The Matrix Sign Function”

**1996 – 34th Conference**

Dr. G. David Forney, Jr., VP of the Information Systems Group at Motorola, Inc., “The Viterbi Algorithms – 25 Years Later: The Forward-Backward Algorithm”

**1997 – 35th Conference**

Graham Goodwin, University of New Castle, Australia, “Fundamental Limitations in Filtering and Control”

**1998 – 36th Conference**

Gilles Brassard, University of Montréal, Canada, “Quantum Information Processing”

**1999 – 37th Conference**

Frank Kelly, Cambridge University, England, “Proportional Fairness, Resource Pricing and the Evolution of Congestion Control”

**2000 – 38th Conference**

Robert J. McEliece, California Institute of Technology, “Achieving the Shannon Limit: a Progress Report”

**2001 – 39th Conference**

Professor John Doyle, California Institute of Technology, “Robustness and Network Complexity”

**2002 – 40th Conference**

Professor U.V. Azirani, University of California-Berkeley, “Quantum Algorithms and Complexity – An Informational Perspective”

**2003 – 41st Conference**

Professor Jessy W. Grizzle of the University of Michigan, “Control and Underactuation in Mechanical Bipedal Locomotion.”

**2004 – 42nd Conference**

Professor Bernd Sturmfels, University of California, Berkeley, “The Tropical Geometry of Statistics Models.”

**2005 – 43rd Conference**

Professor Jacob Ziv, of the Technion Israel Institute of Technology, “What is Hidden in an Individual Sequence?”

**2006 – 44th Conference**

Professor Sergio Verdú, of Princeton University, “Information Theory Today.”

**2007 – 45th Conference**

Professor John Tsitsiklis, of the Massachusetts Institute of Technology, “Decentralized Detection with a Tree of Sensors.”

**2008 – 46th Conference**

Professor Stephen Smale, of the Toyota Technological Institute of Chicago and the University of Chicago, Departments of Mathematics and Computer Science, “Geometry of Data.”

**2009 – 47th Conference**

Professor Abbas El Gamal, of Stanford University, Department of Electrical Engineering,

“Lectures on Network Information Theory.”

**2010 – 48th Conference**

Professor Benjamin Hobbs, of Johns Hopkins University, Department of

Geography and Environmental Engineering, “Electricity Modeling: Why It’s Important (and Fun), and What We Need to Do Next.”

**2011 – 49th Conference**

Professor Avi Wigderson of the Institute of Advanced Study, “Randomness and Pseudorandomness”

**2012 – 50th Conference**

**Plenary Lecture**: Professor David Tse, of the University of California, Berkley.

**Jubilee Lecture**: Professor Karl Johan Åström, of Lund University.

**2013 – 51st Conference**

Professor Kannan Ramchandran of the University of California, Berkley, “Codes for the Storage Cloud”

**2014 – 52nd Conference**

**Plenary Lecture:** Professor Jon Kleinberg of Cornell University, “The Convergence of Social and Technological Networks”

**Tutorial Lecture:** Professor Lior Pachter of the University of California, Berkeley, “Sequencing Based Functional Genomics (Analysis)”

**Tutorial Lecture:** Professor Lieven De Lathauwer of KU Leuven, “An Introduction to Tensor-Based Signal Processing”

**2015 – 53rd Conference**

**Plenary Lecture**: Professor Martin Vetterli of [Ecole Polytechnique Fédérale de Lausanne](http://www.epfl.ch/), “Euclidean Distance Matrices: Essential Theory, Algorithms, and Applications”

**Tutorial Lecture**: Professor Andrea Montanari of Stanford University, “Statistical mechanics, graph estimation and semidefinite programming”

**Tutorial Lecture**: Francis Bach of INRIA, “Beyond stochastic gradient descent for large-scale machine learning”