

# FORTY-TWO YEARS OF HICSS

## A Brief History of the Hawaii International Conference on System Sciences

Very few conferences have grown and developed as HICSS has in its 42 years. The IEEE Computer Society and the ACM are celebrating over 50 years of service. HICSS has been an important event in the world of computer science and information technology during most of the history of these two important international organizations.

HICSS has come a long way in the past four decades. During the first nine years the conference organizers were all University of Hawai'i faculty. It was not until 1977 that faculty members Udo W. Pooch of Texas A&M University, C.V. Ramamoorthy of the University of California at Berkeley, R. Yeh of the University of Texas at Austin, Bruce Shriver of the University of Southwestern Louisiana, and Ted Lewis of the University of Oregon joined HICSS, giving it a broader perspective. HICSS now has organizers from all over the world and solicits papers from an extensive global community.

Many conferences focus on a specific discipline or subject. Although specialization is important, HICSS has chosen to become one of the few general-purpose conferences addressing issues in the areas of computer science, computer engineering, and information systems. The fundamental purpose of this conference is to provide a forum for the exchange of ideas, research results, development activities, and applications. HICSS brings together highly qualified interdisciplinary professionals in an interactive environment.

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## **An Encapsulated History of HICSS (1967-1997)**

*by Bruce Shriver and Ralph Sprague  
1997*

### **Beginnings**

It is well nigh impossible in a short document to even begin to scratch the surface of this conference's 30-years of history. However, we will attempt, in these few pages, to capture some of its unique characteristics and some of the ways in which it has left a mark on the field.

The genesis of the *Hawaii International Conference on System Sciences* according to Norm Abramson, one of its founders, was to address a concern among a number of people intimately involved in computing at the University of Hawai'i that Hawai'i might be considered too remote by many people and somehow left out of the mainstream of activity in this exciting field. He and a small group of colleagues decided to start a conference to "bring potential collaborators and colleagues to Hawai'i and make sure they were not left isolated out in the Pacific Ocean."

The organizers of the first conference were Norm, Franklin Kuo, Bharat Kinariwala, Wes Peterson, and Harold Brown. Their vision and that of the program committee of that 1st meeting has succeeded marvelously.

Among the members of the program committee of the 1st HICSS meetings were:

Bruce Arden of Michigan  
L. Campbell of Queens University, Canada  
Jose Cruz of Illinois  
Toshio Fujisawa of Osaka, Japan  
Dick Hamming of Bell Labs  
Abraham Levi of CMU  
John Lehmann of NSF  
Lofti Zadeh of Berkeley

Given the extremely successful reaction to the 1st meeting, the second conference was planned, and so the series began.

Very few conferences in our field have been able to grow and develop as the series of HICSS meetings have over a 30-year period.

The contributions of the HICSS meetings to our discipline have taken several forms, including the steadfast adherence of its organizers to the notion of it being a broadly based, "working conference" — developing opportunities for and encouraging interaction among its participants. This is a meeting in which a rich variety of sub-fields come together and cross established boundaries, not only to learn from one another, but to work with one another. There is a high degree of parallelism in the program. People make an explicit (and if we've done our

jobs right, a difficult) choice as to what they will attend. They often grumble that they cannot be in two places at the same time.

The HICSS Proceedings have made an impressive contribution to the archival literature. By the 36<sup>th</sup> proceedings, in aggregate, total almost **70,000 pages** of refereed material in a wide and diverse set of topics. Copies of these proceedings, which have been produced by the Computer Society Press since 1988, are found in libraries worldwide. Numerous references to papers that have appeared in these proceedings constantly appear in new work.

The HICSS Distinguished Lecture Series has also become known for its exceptional quality since its inception in the early 1980s. As seen in the flyer you have been given as you entered this hall, we have been privileged to hear some truly distinguished scientists over the years. At least three of these talks have been republished in periodicals of extremely large circulation — those of Tony Hoare, Niklaus Wirth, and Ralph Gomory.

Few of those present can forget after Doug Englebart gave his Distinguished Lecturer's talk, the grace (and emotion) he displayed as he received the Pioneer Award Medal of the IEEE Computer Society for his seminal contributions in the area of human computer interactions.

The HICSS Best Paper awards have also gained increasing notoriety within the computing community. There are some in this very audience this evening who have experienced the feeling of accomplishment one has after having been given one of these awards, knowing the stringent selection process involved. In fact, at least two people and their collaborators in the audience — Yale Patt of Michigan and Jay Nunamaker of Arizona — have received several “best paper” awards.

Many of the HICSS papers have lives well beyond their initial publication in the conference proceedings. Many have:

- Become journal articles, or
- Appeared in special issues of highly regarded periodicals such as *Computer*, *IEEE Software*, *IEEE Parallel and Distributed Systems*, and the *Journal of Management of Information Systems*, or
- Developed into full-scale monographs or books

A number of these special issues have become landmark volumes in the field — the *Multi-Paradigm Languages* issues of *IEEE Software* and the *High Performance I/O* issue of *IEEE Computer* come to mind as two such examples. Moreover the IEEE Computer Society Press now publishes a series of books whose content or topic focus stems from HICSS. There are currently three books in this series.

When considering the impact of HICSS, it is important to note that HICSS has had some interesting, long-term effects on the field. Some major areas of research and development have been largely defined, initiated, and nurtured at various HICSS conferences — e.g., Decision Support Systems and Group Support Systems, Logic Modeling and Model Management

Systems, Negotiation Support Systems, and Creativity/Innovation in IS Organizations, all come to mind.

Finally, it is worth mentioning that some entirely new conferences have been spawned (either entirely or in part) out of HICSS tracks or mini-tracks. Two such examples are the MedComp conferences (the IEEE Computer Society Computational Medicine conferences) and the Pacific Symposium on Biotechnology Computing.

## **Participation**

The first HICSS conference, which occurred in January 1968, had representatives from 11 countries. The programs of the early conferences document well that scientists and engineers from the United States, Australia, Canada, Japan all made substantive contributions to these meetings.

Since 1968, the list of countries typically represented at HICSS has grown to representative of a veritable “United Nations” of computing professionals. This year alone, there are 33 countries represented at HICSS. Over 40% of the more than 600 conference participants come from outside the United States, giving continued substance to the word *international* in the name, the Hawaii International Conference on System Sciences.

An extremely high percentage of these attendees, over 85%, are authors. We believe this is a significant and unique characteristic of this meeting. This is a conference of people who are actively working in many of the interrelated fields of computer science. There are few “walk-ons” or “observers” — most people are here to discuss their work.

The registration fee for the first HICSS conference was \$25 and included “Conference materials, copy of the proceedings and daily round-trip bus transportation from Waikiki hotels to the University of Hawai’i.”

The fee escalated to \$30 in 1969 and \$35 in 1970. In 1981 with HICSS-14, the conference grew from a 2-day format to a 3-day format. HICSS took on its current 4-day format at HICSS-19, in 1986. HICSS-20 was the first HICSS meeting that was not held on Oahu, but took place instead on the Kona Coast of the Big Island. In fact the conference has yet to return to Oahu.

Over the past 30-years, an incredible number of distinguished workers in the field have come, not just as invited plenary speakers or distinguished lecturers, but, more importantly, as:

- Members of various conference program committees or one of the advisory committees
- Authors
- Session coordinators
- Task force participants or to present seminars or advanced tutorials

That is, they were here (often at multiple HICSS meetings) as active participants. Let’s take a brief look at names of some of these people.

<u>Name</u>	<u>Comment</u>	<u>1<sup>st</sup> Year</u>
Norm Abramson	Fundamental contributions to Internet Technology	1968
Taylor Booth	Taylor Booth Award (Education Medal for the IEEE Computer Society)	1968
Harold Stone	Pioere Aware, NEC Fellow	1968
John Cocke	National Medal of Science, Turing Award NAE, Eckert-Mauchly Award	1969
Dennis Tsichritzis		1969
Dines Bjorner	VDL - Vienna Definition Language	1970
Mike Flynn	Eckert-Mauchly Award	1970
Jay Nunamaker	Father of a separate subfield – Collaborative Technology	1970
Elliott Organick		1970
Yale Patt	IEEE Piore Award, Eckert-Mauchly Award	1970
Zadeh Lofti		1970
Jack Schwartz		1970
Richard Bellman	Father of Dynamic Programming	1971
Andy Whinston	Father of a separate subfield – Computational Economics	1973
Bob Metcalfe	IEEE Medal of Honor	1973
Dennis Ritchie	Co-inventor of UNIX and Turing Award winner	

There are so many other names that one recognizes immediately when paging through these old programs.

Al Avizines of UCLA  
Bill McKeeman of Santa Cruz, DEC

Hideo Aiso of Keio  
Les Belady of IBM, MERL  
Mike Dertouzos of MIT  
Toshio Fujisawa of Osaka  
Tse Feng of Purdue

Now, pause for a moment and take a look at the people around you. If the history of is any indicator, you may very well be looking at the very next John Cocke, or the next Mike Flynn, or the next Harold Stone, or the next Andy Whinston or the next Jay Nunamaker, or the next Dines Bjorner, or the next Yale Patt. That's incentive enough to attend all of the technical sessions you can!

## **Sponsors**

Part of the history and heritage of HICSS is the set of sponsors and supporting organizations that have helped HICSS through the years. Among them are:

University of Hawai'i, Department of EE  
University of Hawai'i, Information Sciences Program  
ONR  
AFOSR  
National Science Foundation  
IEEE Computer Society  
IEEE Systems Science and Cybernetics Society  
ACM  
SIAM  
Hawai'i Section of the IEEE  
IEEE Control Systems Society  
IEEE Group on Information Theory  
IEEE Group on Automatic Control  
ARO  
Regional Medical Program of Hawai'i  
University of Hawai'i, College of Business Administration  
Nasdaq

## **Closing**

We are truly honored — as we believe all of the prior conference and program committee chairmen of these meetings surely felt they were — to have been a part of this meeting and to have served the community at large through participating in it.

We extend thanks, not just for ourselves, but for all of the past conference chairmen and program committees (a significant number of which are not able to be with us this evening), to all of those who have given salient advice, creative thought, constructive criticism, or an untold

number of hours of blood, sweat, and tears to make these meetings truly rewarding for the attendees.

We hope that you have enjoyed this brief and very incomplete history of the HICSS series of conferences. Following are the complete lists of Distinguished Lecturers, Plenary Speakers, and Conference Organizers featured at the conference.

## Distinguished Lecturer Series

- 1980 (HICSS-13) Robert S. Ledley, National Biomedical Research Foundation,  
Georgetown University Medical Center  
*Diagnosis by Computer: Two Decades of Progress*
- 1981 (HICSS-14) Homer R. Warner, University of Utah/LDS Hospital  
*The Computer as a Support System for Clinical Decisions*
- 1982 (HICSS-15) Wayne Willenberg, Spensley Horn Jubas & Lubitz, Los  
Angeles, California  
*Protection of Computer Software*
- 1983 (HICSS-16) E.F. Codd, IBM Research Laboratory, San Jose, California  
*The Capabilities of Relational Database Management Systems*
- 1984 (HICSS-17) Maurice V. Wilkes, Digital Equipment Corporation  
*Some Personal Reflections on Career in Computer Science  
Research*
- 1985 (HICSS-18) Professor Hideo Aiso, Keio University  
*Research Topics in Japan National Project For Information  
Technology*
- 1986 (HICSS-19) John Cocke, IBM Thomas J. Watson Research Center  
*High Performance Scalar Scientific Architectures*
- 1987 (HISS-20) C.A.R. Hoare, Oxford University  
*Laws of Programming*
- 1989 (HICSS-22) Harlan D. Mills, University of Florida and Information  
Systems Institute  
*The Human Frontier in Software Engineering*
- 1990 (HICSS-23) A. Nico Habermann, Carnegie-Mellon University  
*Computing Research: Science or Engineering?*
- 1991 (HICSS-24) Terrence J. Sejnowski, The Salk Institute and University of  
California at San Diego  
*Perspectives on Neural Computation*
- 1992 (HICSS-25) Barbara Liskov, Massachusetts Institute of Technology  
*Replication Algorithms*
- 1993 (HICSS-26) Douglas C. Engelbart, Bootstrap Institute

*Organizational IQ and Paradigm Shiftlessness*

- 1994 (HICSS-27) Niklaus Wirth, Swiss Federal Institute of Technology  
*The Growth of Software*
- 1995 (HICSS-28) Ralph E. Gomory, Alfred P. Sloan Foundation  
*Computers and National Productivity*
- 1996 (HICSS-29) Raj Reddy, Carnegie Mellon University  
*To Dream the Possible Dream*
- 1997 (HICSS-30) Donald A. Norman, Apple Research Laboratories  
*Converging Industries: The Multiple Impact of Converging Industries on Politeness, the Individual, Society and Nations*
- 1998 (HICSS-31) Norman Abramson, ALOHA Networks, Inc.  
*Aloha to the Web*
- 1999 (HICSS-32) John Seely Brown, Palo Alto Research Center (PARC) and Xerox Corporation  
*Calm Computing: A Challenge for the 21st Century*
- 2000 (HICSS-33) Arno A. Penzias, Venture Partner at New Enterprise Associates and Senior Technology Advisor of Lucent Technologies, Bell Labs Innovations  
*From Where We Were, To Where We're Going: Ongoing And Emerging Changes*
- 2001 (HICSS-34) Lotfi Zedeh, University of California, Berkley  
*Soft Computing and Computing With Words and Systems Analysis, Decision and Control*
- 2002 (HICSS-35) Lawrence Lessig, Stanford Law School  
*The Architecture of Innovation*
- 2003 (HICSS-36) David Farber, Federal Communications Commission  
*Intellectual Property Rights and National Security*
- 2004 (HICSS-37) Ian Foster, Argonne National Laboratory & University of Chicago  
*The Grid: Opportunities, Achievements, and Challenges for (Computer) Science*
- 2005 (HICSS-38) Barry W. Boehm, University of Southern California  
*Value-Based Software and System Engineering*

- 2006 (HICSS-39) Irving Wladawsky-Berger, Thomas J. Watson Research Center  
*Innovation in the 21<sup>st</sup> Century*
- 2007 (HICSS-40) Hal Abelson, Massachusetts Institute of Technology  
*Universities, the Internet, and the Information Commons*
- 2008 (HICSS-41) Yochai Benkler, Harvard University  
*Cooperation and Human Designs Systems*
- 2009 (HICSS-42) Dan Atkins, University of Michigan  
*Universities in the Digital Age Revisited*

### **Plenary Speakers and Special Speakers**

- 1970 (HICSS-3) F. Karl Willenbrock, President, I.E.E.E.
- 1971 (HICSS-4) M.E. Van Valkenburg, Princeton University
- 1972 (HICSS-5) Richard Bellman, University of Southern California
- 1973 (HICSS-6) Stewart Udall, Chairman of the Board, Overview  
James C. Elms, Transportation Systems Center, U.S. Dept. of \ Transportation
- 1977 (HICSS-10) D. Stoutemeyer, University of Hawai'i  
W.A. Davis, BMDATC, U.S. Army, Huntsville, Alabama
- 1978 (HICSS-11) E. Carlson, International Business Machines, San Jose, California  
  
D. Heenan, Dean, College of Business Administration,  
University of Hawai'i
- 1980 (HICSS-13) George Brown, U.S. House of Representatives  
*A System Approach to Federal Reforms in Health Car*  
  
Gabor T. Herman, State University of New York at Buffalo,  
*Computerized Reconstruction & Three Dimensional Display of  
Human Organs*
- 1981 (HICSS-14) Richard M. Farrell, NASA Life Sciences Flight Program  
*Life Investigations for Spacelab*  
  
J. Daniel Couger, University of Colorado  
*Factors in the Motivation and Growth of Computer Professionals*

- 1982 (HICSS-15) Portia Isaacson, Future Computing  
*From Microprocessors to Personal Robots*
- R.E. Fischell, The Johns Hopkins University  
*A Microcomputer Controlled, Implantable Medication System*
- 1983 (HICSS16) Thomas M. Lodahl, Arlington, Massachusetts  
*Personal Software and the Evolution of Thinking*
- Kames H. McAlear, EMV Associates, Inc.  
*Towards Biomolecular Logic*
- 1984 (HICSS-17) Nelson Max, Lawrence Livermore National Library  
*Advances in Computer-Generated Graphics*
- Harold C. Kinne, Future Computing Inc.  
*The Microcomputer Revolution*
- 1985 (HICSS-18) Michael E. Treacy, Massachusetts Institute of Technology  
*Software Architecture for End-User Computing*
- Ralph R. Grams, University of Florida  
*Computers in Health Care: China, Japan and Hong Kong*
- 1986 (HICSS-19) Ted Lewis, Oregon State University  
*To Program or Not to Program, the View from the Boiler Room*
- Eric D. Carlson, Convergent Technologies, San Jose, California  
*The Elusive Executive Workstation*
- 1987 (HICSS-20) Norman Abramson, University of Hawai'i  
*The New Networks*
- Andries van Dam, Brown University  
*Computer Graphics After 25 Years – Where is it Going?*
- Charles Brownstein, National Science Foundation  
*Research in Computer and Information Science and Engineering (CISE) at the National Science Foundation*
- 1988 (HICSS 21) Andries van Dam, Brown University  
*Future Directions for High-End Workstations*
- Arie Y. Lewin, National Science Foundation  
*Impact of User Driven Computer Mediated Technology on*

*Organizations*

- Lee W. Hoevel, NCR Corporation-World Headquarters  
*Quality, Technology and Magic*
- 1989 (HICSS-22) Jay Nunamaker, Jr., University of Arizona  
*Group Decision Support Systems (GDSS): Present and Future*
- Ben G. Matley, Ventura College  
*The Information Society - The Reality is Now, Through National Computer Policies*
- Harlan D. Mills, University of Florida and Information Systems Institute  
*The Human Frontier in Software Engineering*
- 1990 (HICSS-23) Lee W. Hoevel, NCR Corporation-World Headquarters  
*Desktop Shock: The Future at Your Fingertips*
- Russell L. Brand  
*Computer Break-ins: Theory and Practice - Urchins and Spies*
- Daniel P. Siewiorek, Carnegie Mellon University  
*Performance or Reliability - That is the Question*
- 1991 (HICSS-24) Lee W. Hoevel, NCR Corporation-World Headquarters  
*Integrating Workstations and Communications*
- Robert Johansen, Institute for the Future  
*Future Directions for Collaborative Technology*
- Justin Rattner, Intel Scientific Computers  
*Grand Challenge Computer Systems*
- 1992 (HICSS-25) Yale Patt, University of Michigan  
*What to do About the Speed of Light*
- Andries van Dam, Brown University  
*Escaping Flatland*
- Daniel Teichroew, University of Michigan  
*The Evolution of Information System Development*
- John Gustafson, Ames Laboratory  
*Parallel Programming Technology*

- 1993 (HICSS-26) Lee W. Hoevel, NCR Corporation  
*Massive Parallelism in On-Line Support Systems*
- John Seely Brown, Xerox Corporation  
*With MIPS Galore, Where's the Productivity?*
- Robert Langridge, University of California  
*Computational Visualization of Biochemical Complexity*
- 1994 (HICSS-27) Michael Evangelist, Florida International University  
*Creating the Profession of Software Engineering*
- Paul A. Straussman, West Point Military Academy  
*Information Technology and Organizational Effectiveness*
- James E. Smith, Cray Research, Inc.  
*Vector Supercomputers: Will They Soar Like the Birds?*
- 1995 (HICSS-28) M. Stuart Lynn, Commission on Preservation and Access  
*Preserving Our Heritage*
- Sape J. Mullender, University of Twente, Netherlands  
*Pegasus: Operating-System Support for Distributed Multimedia*
- Harold Morowitz, George Mason University  
*Knowledgebases, Databases, and The Matrix of Biological Knowledge*
- 1996 (HICSS-29) Richard Lanham, Rhetorical, Inc.  
*The Economics of Attention and the Arts of Information*
- K. Eric Drexler, Institute for Molecular Manufacturing  
*Molecular Manufacturing: Bringing Software Economics to the World of Things*
- Yale Patt, University of Michigan  
*The Microprocessor and its Performance in the Year 2000*
- 1997 (HICSS-30) Bruce Shriver, Genesis 2  
*Core Technologies in the Age of Intranets and Internets*
- Dennis Tsichritzis, German National Research Center for Information Technology and University of Geneva  
*Boundary Areas and Boundary Projects*
- 1998 (HICSS-31) Pamela Samuelson, University of California - Berkeley

*Intellectual Property and the Information Society*

Torben Peterson, Oticon

*The Knowledge-Based Organization: How Information and communication Technology Makes Things Work*

S. Atiq Raza, AMD

*Emerging Connected Computation Paradigm*

1999 (HICSS-32)

Edward H. Shortliffe, Stanford University School of Medicine  
*Defining the Science in Biomedical Computing*

Ikujiro Nonaka, Graduate School of Knowledge Science Japan  
Institute of Science and Technology  
*Leading Knowledge Creation*

Bruce Shriver, Genesis 2, Inc and The University of Tromso,  
Norway

*Authoring a Multimedia Technical Book: Design and  
Implementation Considerations*

2000 (HICSS-33)

Larry Prusak; Executive Director of the Institute for Knowledge  
Management, Managing Principal with IBM Global Services  
*Enablers and Enemies of Knowledge Management*

Mario Tokoro; Corporate Senior Vice President of Sony  
Corporation, and President, Sony Computer Science  
Laboratories, Inc.

*Beyond Digital Living Rooms: Can Computers Be More Intimate  
To Users?.*

2001 (HICSS-34)

Masao Kato; Chairman of Fuji-Xerox Palo Alto Laboratory  
*The Future Role of Research Laboratories*

William Clancey; University Of West Florida And Nasa/Ames  
Research Center

*Mars to Earth: How We Shall Use SMARS To Prepare for Mar's  
Surface Operations*

2002 (HICSS-35)

Thomas H. Davenport, Accenture Institute  
*Attention Must Be Paid!*

Elizabeth Monk Daley, University of Southern California  
*Expanded Concepts of Literacy*

2003 (HICSS-36)

Andries van Dam, Brown University

## Beyond Today's Web-Based Educational Content

- 2004 (HICSS-37) General H.C. Stackpole (USMC, ret.); President, Asia-Pacific Center for Security Studies  
*The Role of Information Technology in National Security*
- 2005 (HICSS-38) Peter G.W. Keen, Keen Innovations  
*When All Leading Firms in an Industry have Access to the Same Technology, the Competitive Edge Comes from Fusing People, Process and Technology*
- 2006 (HICSS-39) Joi Ito, Six Apart Japan; Neoteny Co., Ltd.; Kula Co., Ltd.; Japan  
*The Sharing Economy*
- 2007 (HICSS-40) Gilman Louie, Alsip Louie Partners, San Francisco, CA  
*The Venture Capital Approach to Finding and Supporting Innovation*
- 2008 (HICSS-41) Padhraic Smyth, University of California, Irvine  
*From Gauss to Google: Data Analysis in the Digital Age*
- 2009 (HICSS-42) Tom Dean, Google  
*Disruptive Perspectives on Biological and Machine Vision*

## Conference and Track Chairs

### 1968 (HICSS-1)

**Conference Chair:** Franklin F. Kuo, University of Hawai'i

**Programs Chairs:** Norman Abramson, University of Hawai'i

Bharat Kinariwala, University of Hawai'i

W. Wesley Peterson, University of Hawai'i

### 1969 (HICSS-2)

**Conference Chair:** Norman Abramson, University of Hawai'i

**Program Chairs:** Franklin F. Kuo, University of Hawai'i

N. Thomas Gaarder, University of Hawai'i

Rahul Chattopadhyay, University of Hawai'i

### 1970 (HICSS-3)

**Conference Chair:** N. Thomas Gaarder, University of Hawai'i

**Program Chairs:** Rahul Chattopadhyay, University of Hawai'i

Richard Jones, University of Hawai'i

### 1971 (HICSS-4)

**Conference Chair:** E. J. Weldon, Jr., University of Hawai'i

**Program Chairs:** Rahul Chattopadhyay, University of Hawai'i

David Pager, University of Hawai'i

### 1972 (HICSS-5)

**Conference Chair:** Michael Satosi Watanabe, University of Hawai'i

**Subconference Chair:** Homer R. Warner, University of Hawai'i

**Program Chairs:** Will Gersch

Fred I. Gilbert, Jr.

### 1973 (HICSS-6)

**Conference Chair:** Bharat Kinariwala, University of Hawai'i

**Subconference Guest Chair:** Crawford S. Holling, University of Hawai'i

**Subconference Chair:** Richard D. Bauman, University of Hawai'i

**Program Chairs:** Rahul Chattopadhyay, University of Hawai'i

### 1974 (HICSS-7)

**Conference Chairs:** David Slepian, University of Hawai'i

**Subconference Chairman:** Norman Abramson, University of Hawai'i

**Subconference Guest Chair:** Jur Oizumi, Tohoku University, Japan

**Program Chair:** Tom Gaarder, University of Hawai'i

### 1975 (HICSS-8)

**Conference Chair:** A. Lew, University of Hawai'i

**1976 (HICSS-9)**

**Conference Chair:** Rahul Chattergy, University of Hawai'i

**1977 (HICSS-10)**

**Conference Co-Chairs:** Rahul Chattergy, University of Hawai'i

Ralph H. Sprague, Jr., University of Hawai'i

Udo W. Pooch, Texas A&M University

**Track Chairs:** C. V. Ramamoorthy, University of California, Berkley

R. Yeh, University of Texas, Austin

U. W. Pooch, Texas A&M, College Station

Ralph H. Sprague, Jr., University of Hawai'i

B. Shriver, University of Southwestern Louisiana

T. Lewis, University of Oregon

**1978 (HICSS-11)**

**Conference Chair:** Ralph H. Sprague, Jr., University of Hawai'i

**Track Chairs:** U. W. Pooch, Texas A&M, College Station

A. I. Wasserman, University of California, San Francisco

W. E. Remus, University of Hawai'i

**1979 (HICSS-12)**

**Conference Chair:** Ralph H. Sprague, Jr., University of Hawai'i.

**Track Chairs:** U. W. Pooch, Texas A&M, College Station

Bruce Shriver, University of Southwestern Louisiana,

W. E. Remus, University of Hawai'i

**1980 (HICSS-13)**

**Conference Chair:** Ralph H. Sprague, Jr., University of Hawai'i

**Track Chairs:** Udo W. Pooch, Texas A&M, College Station

Richard E. Fairley, Colorado State University

William Remus, University of Hawai'i

Bruce Shriver, University of Southwestern Louisiana

Terry M. Walker, U. of Southwestern Louisiana

**1981 (HICSS-14)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i

Bruce D. Shriver, University of Southwestern Louisiana

**Track Chairs:** Ken Thurber, Sperry Univac, St. Paul, Minnesota

William Riddle, Cray Laboratories, Boulder, CO

Ralph H. Sprague, Jr., University of Hawai'i

Bruce D. Shriver, University of Southwestern Louisiana

Ralph R. Grams, University of Florida, Gainesville

Terry M. Walker, University of Southwestern Louisiana

**1982 (HICSS-15)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, University of Southwestern, Louisiana  
**Track Chairs:** William Riddle, Cray Laboratories, Boulder, CO  
Ken Thurber, Architecture Technology Corp., MN  
Peter Keen, Massachusetts Institute of Technology  
Bruce D. Shriver, University of Southwestern Louisiana  
Ralph R. Grams, University of Florida, Gainesville  
Terry M. Walker, University of Southwestern Louisiana

### 1983 (HICSS-16)

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, University of Southwestern Louisiana  
**Track Chairs:** William E. Howden, University of California, San Diego  
Helmut K. Berg, Honeywell, Bloomington, MN  
Ralph H. Sprague, Jr., University of Hawai'i  
Raymond R. Panko, University of Hawai'i  
Bruce D. Shriver, University of Southwestern Louisiana  
Terry M. Walker, University of Southwestern Louisiana  
Thomas R. Cousins, University of Southwestern Louisiana

### 1984 (HICSS-17)

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, University of Southwestern Louisiana  
**Track Chairs:** James P. Fry, University of Michigan  
Larry Weissman, Software Arts, Wellesley, MA  
Ralph H. Sprague, Jr., University of Hawai'i  
Raymond R. Panko, University of Hawai'i  
Thomas R. Cousins, University of Southwestern Louisiana  
Bruce D. Shriver, University of Southwestern Louisiana  
Terry M. Walker, University of Southwestern Louisiana

### 1985 (HICSS-18)

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Edmund L. Gallizzi, Eckerd College, St. Petersburg  
Bruce Shriver, IBM, Thomas J. Watson Research Center  
Joyce Elam, University of Texas  
Terry M. Walker, U. of Southwestern Louisiana

### 1986 (HICSS-19)

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Yaohan Chu, University of Maryland  
Leonard Haynes  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
Lee W. Hoevel, NCR Corporation

Edward A. Stohr, New York University. Art Speckard, Aerospace Corporation  
Ralph R. Grams, University of Florida, Gainesville  
Terry M. Walker, U. of Southwestern Louisiana

**1987 (HICSS-20)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Lee W. Hoevel, NCR Corporation  
Yaohan Chu, University of Maryland  
Leonard Haynes  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
Edward A. Stohr, New York University  
Ralph R. Grams, University of Florida  
Art Speckard, Aerospace Corporation  
Ralph H. Sprague, Jr., University of Hawai'i

**1988 (HICSS-21)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Lee W. Hoevel, NCR Corporation, World Headquarters  
Bruce D. Shriver, IBM Thomas J. Watson Research Center  
Benn R. Konsynski, Harvard Business School  
Ralph H. Sprague, Jr., University of Hawai'i

**1989 (HICSS-22)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Lee W. Hoevel, NCR Corporation, World Headquarters  
Veljko Milutinovic, Purdue University  
Robert W. Blanning, Vanderbilt University  
David King, Execucom Systems Corporation  
Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center

**1990 (HICSS-23)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center  
**Track Chairs:** Veljko Milutinovic, University of Belgrade  
Lee W. Hoevel, NCR Corporation  
Jay F. Nunamaker, Jr., University of Arizona  
Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, U. of Southwestern Louisiana

**1991 (HICSS-24)**

**Conference Co-Chairs:** Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, IBM, Thomas J. Watson Research Center

**Track Chairs:** Veljko Milutinovic, University of Belgrade  
Jay F. Nunamaker, Jr., University of Arizona  
Ralph H. Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, University of Southwestern Louisiana

**1992 (HICSS-25)**

**Conference Co-Chairs:** Bruce D. Shriver, President, IEEE Computer Society  
Ralph H. Sprague, Jr., University of Hawai'i

**Track Chairs:** Veljko Milutinovic, University of Belgrade  
Jay Nunamaker, Jr., University of Arizona  
Ralph Sprague, Jr., University of Hawai'i  
Bruce D. Shriver, D.H. Brown Associates, Inc.

**1993 (HICSS-26)**

**Conference Co-Chairs:** Bruce D. Shriver, President, IEEE Computer Society  
Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:** Trevor N. Mudge, University of Michigan  
Veljko Milutinovic, University of Belgrade  
Jay Nunamaker, Jr., University of Arizona  
Ralph Sprague, Jr., University of Hawai'i  
Lawrence Hunter, National Library of Medicine  
Hesham El-Rewini, University of Nebraska  
Ted G. Lewis, Oregon State University  
Bruce D. Shriver, 1992 President, IEEE Computer Society.

**1994 (HICSS-27)**

**Conference Co-Chairs:** Bruce D. Shriver, USL/Genesis II, Inc.  
Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:** Trevor N. Mudge, University of Michigan  
Bruce D. Shriver, USL/Genesis II, Inc.  
Jay Nunamaker, Jr., University of Arizona  
Ralph Sprague, Jr., University of Hawai'i  
Lawrence Hunter, National Library of Medicine  
Hesham El-Rewini, University of Nebraska

**1995 (HICSS-28)**

**Conference Co-Chairs:** Bruce D. Shriver, USL/Genesis II, Inc.  
Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:** Trevor N. Mudge, University of Michigan  
Ralph Sprague, Jr., University of Hawai'i  
Lawrence Hunter, National Library of Medicine  
Hesham El-Rewini, University of Nebraska  
Bruce D. Shriver, USL/Genesis II, Inc.  
Jay Nunamaker, Jr., University of Arizona

**1996 (HICSS-20)**

**Conference Co-Chairs:** Bruce D. Shriver, USL/Genesis II, Inc.

Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:** M. Stuart Lynn, Univ. of California Office of the President

Ralph Sprague, Jr., University of Hawai'i

Hesham El-Rewini, University of Nebraska

Bruce D. Shriver, USL/Genesis II, Inc.

Jay Nunamaker, Jr., University of Arizona

### **1997 (HICSS-30)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

#### **Track Chairs:**

Task Forces In Computer Architecture: Yale N. Patt, University of Michigan

Advanced Technology Track: Ralph Sprague, Jr., University of Hawai'i

Digital Documents Track: Ralph Sprague, Jr., University of Hawai'i

Information Systems Track: Jay Nunamaker, Jr., University of Arizona

Ralph Sprague, Jr., University of Hawai'i

Software Technology Track: Hesham El-Rewini, University of Nebraska

### **1998 (HICSS-31)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

#### **Track Chairs:**

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona

Digital Documents Track: Ralph H. Sprague, Jr.; University of Hawai'i

Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i

Internet and the Digital Economy Track: Dave King; Comshare

Robert Blanning; Vanderbilt University

Modeling Technologies & Intelligent Systems Track: Dan Dolk; Naval Postgraduate School

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Hesham El-Rewini; University of Nebraska at Omaha

### **1999 (HICSS-32)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

#### **Track Chairs:**

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona

Digital Documents Track: Stephen Smoliar; FX Palo Alto Laboratory

Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i

Information Technology in Health Care Track: William Chismar; University of Hawai'i

Robert Mittman; The Institute for the Future

Internet and the Digital Economy Track: Dave King; Comshare

Alan Dennis; Indiana University

Modeling Technologies & Intelligent Systems Track: Dan Dolk; Naval Postgraduate School

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Hesham El-Rewini; University of Nebraska at Omaha

### **2000 (HICSS-33)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:**

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; University of Arizona  
Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School  
Digital Documents Track: Stephen Smoliar; FX Palo Alto Laboratory  
Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i  
Hesham El-Rewini; Univ. of Nebraska at Omaha  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Robert Mittman; The Institute for the Future  
Internet and the Digital Economy Track: Dave King; Comshare  
Alan Dennis; University of Georgia  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Hesham El-Rewini; Univ. of Nebraska at Omaha  
Sumi Helal; University of Florida

**2001 (HICSS-34)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

**Track Chairs:**

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Complex Systems Track: Robert J. Thomas; Cornell University  
Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School  
Digital Documents Track: Stephen Smoliar; FX Palo Alto Laboratory.  
Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i  
Hesham El-Rewini; Univ. of Nebraska at Omaha  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Robert Mittman; The Institute for the Future  
Internet and the Digital Economy Track: Dave King; Comshare  
Alan Dennis; Indiana University  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Hesham El-Rewini; Univ. of Nebraska at Omaha

**2002 (HICSS-35)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; GroupSystems.com  
Complex Systems Track: Robert J. Thomas; Cornell University  
Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School  
Digital Documents Track: Michael Shepherd, Dalhousie University.  
Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i  
Hesham El-Rewini; Southern Methodist Univ.  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Internet and the Digital Economy Track: Dave King; Comshare  
Alan Dennis; Indiana University  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Hesham El-Rewini; Southern Methodist Univ.

### **2003 (HICSS-36)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; GroupSystems.com

Complex Systems Track: Robert J. Thomas; Cornell University

Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School

Digital Documents Track: Michael Shepherd, Dalhousie University

Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i  
Hesham El-Rewini; Southern Methodist Univ.

Information Technology in Health Care Track: William Chismar; University of Hawai'i

Internet and the Digital Economy Track: Dave King; Comshare

Alan Dennis; Indiana University

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Gul Agha, University of Illinois Urbana-Champaign

### **2004 (HICSS-37)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; GroupSystems.com

Complex Systems Track: Robert J. Thomas; Cornell University

Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School

Digital Documents Track: Michael Shepherd, Dalhousie University

Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i

Information Technology in Health Care Track: William Chismar; University of Hawai'i

Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.

Alan Dennis; Indiana University

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Gul Agha, University of Illinois Urbana-Champaign

### **2005 (HICSS-38)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; GroupSystems.com

Complex Systems Track: Robert J. Thomas; Cornell University

Decision Technology in Management Track: Dan Dolk; Naval Postgraduate School

Digital Documents Track: Michael Shepherd, Dalhousie University

Emerging Technology Track: Ralph H. Sprague, Jr.; University of Hawai'i

Information Technology in Health Care Track: William Chismar; University of Hawai'i

Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.

Alan Dennis; Indiana University

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Gul Agha, University of Illinois Urbana-Champaign

### **2006 (HICSS-39)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Robert Briggs; University of Arizona

Jay F. Nunamaker, Jr.; University of Arizona  
Decision Technology in Management Track: Daniel Dolk; Naval Postgraduate School  
Digital Media: Content and Communication Track: Michael Shepherd, Dalhousie University  
E-Government Track: Hans J. (Jochen) Scholl, University of Washington  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.  
Alan Dennis; Indiana University  
Knowledge Management Systems Track: Murray Jennex, San Diego State University  
David Croasdell, University of Nevada, Reno  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Gul Agha, University of Illinois Urbana- Champaign

### **2007 (HICSS-40)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i  
Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; University of Nebraska at Omaha  
Decision Technologies and Service Sciences Track: Daniel Dolk; Naval Postgraduate School  
Digital Media: Content and Communication Track: Michael Shepherd, Dalhousie University  
E-Government Track: Hans J. (Jochen) Scholl, University of Washington  
Electric Power Systems Restructuring Track: Robert J. Thomas; Cornell University  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.  
Alan Dennis; Indiana University  
Knowledge Management Systems Track: Murray Jennex, San Diego State University  
David Croasdell, University of Nevada, Reno  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Gul Agha, University of Illinois Urbana- Champaign  
Rick Kazman, University of Hawai'i

### **2008 (HICSS-41)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i  
Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; University of Nebraska at Omaha  
Decision Technologies and Service Sciences Track: Daniel Dolk; Naval Postgraduate School  
Digital Media: Content and Communication Track: Michael Shepherd, Dalhousie University  
E-Government Track: Hans J. (Jochen) Scholl, University of Washington  
Electric Power Systems Restructuring: Engineering, Economics and Policy Track:  
Robert J. Thomas; Cornell University  
Information Technology in Health Care Track: William Chismar; University of Hawai'i  
Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.  
Alan Dennis; Indiana University  
Knowledge Management Systems Track: Murray Jennex, San Diego State University  
David Croasdell, University of Nevada, Reno  
Organization Systems & Technology Track: Hugh Watson; University of Georgia  
Software Technology Track: Gul Agha, University of Illinois Urbana- Champaign  
Rick Kazman, University of Hawai'i

**2009 (HICSS-42)**

**Conference Chair:** Ralph Sprague, Jr., University of Hawai'i

Collaboration System and Technology Track: Jay F. Nunamaker, Jr.; University of Arizona  
Robert Briggs; University of Nebraska at Omaha

Decision Technologies and Service Sciences Track: Daniel Dolk; Naval Postgraduate School

Digital Media: Content and Communication Track: Michael Shepherd, Dalhousie University

E-Government Track: Hans J. (Jochen) Scholl, University of Washington

Electric Power Systems Restructuring: Engineering, Economics and Policy Track:  
Robert J. Thomas; Cornell University

Information Technology in Health Care Track: William Chismar; University of Hawai'i

Internet and the Digital Economy Track: Dave King; JDA Software Group, Inc.  
Alan Dennis; Indiana University

Knowledge Management Systems Track: Murray Jennex, San Diego State University  
David Croasdell, University of Nevada, Reno

Organization Systems & Technology Track: Hugh Watson; University of Georgia

Software Technology Track: Gul Agha, University of Illinois Urbana- Champaign  
Rick Kazman, University of Hawai'i