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## Seventeenth Annual Asilomar Microcomputer Workshop April 24 -- 26, 1991

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### Wednesday, April 24

1:20 -- 1:30pm Opening Remarks, John Wharton, Applications Research, Inc. -- General Chair

1:30 -- 3:00pm Data Input and Delivery Systems, Brian Berg, Berg Software Design -- Chair

- Phil Bernzott, Consultant: An Overview of the State of OCR Technology
- Jim Montgomery, Opcode Systems, Inc.: PageBrush: A Hand-Held Page Scanner and Mouse
- Lee Felsenstein, Reddy Information Systems: RED: A Portable CD-ROM-based Information System

3:30 -- 5:00pm Data Compression, Brian Berg, Berg Software Design -- Chair

- William Elswick, Ediflex System: An Overview of Digital Audio Interchange and Compression
- John Stautner, Digital Multimedia Associates: What Does MPEG Audio Really Mean, What Does It Sound Like, and How Do You Get What You Really Want?
- Ron Arps, IBM Research Division: Does Using JBIG Imply an Absence of Gray Matter?
- Adriaan Ligtenberg, Storm Technology: How Color Will Change the Computing Environment of the '90s

7:30 -- 10:30pm Athematic Short Talks, Robert Wedig, Wedig Consulting Services -- Chair

- Leonard Laub, Vision Three, Inc.: The Underlying Limits of Data Compression: Thermodynamics in Your Computer
- David Patterson, UC Berkeley: Cheap Gigabytes: Adding a New Layer to the Memory Hierarchy
- Mark Jurik, Jurik Research: Comparative Control Techniques
- Tony Requist, GeoWorks: The GEOS Operating System
- Bob Dolin, Echelon: The LONBUILDER Development System for Distributed Control
- Dan Siegel, Irell & Manella: Recent Developments in Software Patent and Copyright Law
- Chad Mitchell, Great Wave Software: Interface Design for Children's Programs
- Carol Curry, Silicon Graphics: What Do Women Really Want?
- Bruce Lightner, Metaflow Technologies: Zen and the Struggle Between Communism and RISC

### Thursday, April 25

8:15 -- 10:00am Egregiously Parallel Computers, Fred Clegg, Raynet -- Chair

- Peter Christy, MasPar Computer: Why Massive Parallelism Now, and How?
- Greg Papadopoulos, MIT Laboratory for Computer Science: All Parallel Machines Will Look The Same
- Jeff Deutsch, Deutsch Research: Multiprocessor Personal Computers
- Brewster Kahle, Thinking Machines Inc.: Wide-Area Information Servers: A Supercomputer on Every Desk

10:30 -- 12:00n Better User Interfaces, Chuck Clanton, Aratar -- Chair

- Chuck Clanton, Aratar: Time, Space, and User Illusion
- Doug Blewett, AT&T Bell Labs: Toolkit Graphics
- Robert Carr, Go Corporation: Why PenPoint?

1:30 -- 3:00pm The Matrix: Worldwide Personal Networks, Bruce Koball, Motion West -- Chair

- Dave Farber, The University of Pennsylvania: NREN and the Future of Populist Computing
- John S. Quarterman, Texas Internet Consulting: Electronic Publishing Via Networks
- Mark Graham, Pandora Systems: Exploring the Matrix with a Cyberspace Cockpit

3:30 -- 5:00pm Settling the Electronic Frontier, Bruce Koball, Motion West -- Chair

- Jim Warren, DataCast: Computer Freedom and Privacy
- Mitch Kapor, The Electronic Frontier Foundation: Civil Liberties in Cyberspace
- John Perry Barlow, Grateful Dead Productions: Bringing the Settlers In

7:00 -- 7:30pm Ad Hoc Working Group: Can Bill Gates Be Stopped? John Wharton, Xanthrax Communications -- Moderator

7:30-11:00pm+ Open Discussion: A Rich Asilomar Tradition, Jim Warren -- Timemaster  
(Contact Jim any time after registration for time slot assignment.)

### Friday, April 26

Dawn Beach Walk

9:30 -- 11:30am Design Strategies for Future Processors: Getting Past the Performance Plateau, Michael Slater, Microprocessor Report -- Moderator

How much longer will chip designers be able to continue the performance advances of the past? Which new implementation techniques are worth the hassle, and which are just marketing hype? What's the rationale for moving beyond 32 bits? Does architecture really matter? Panel discussion participants will include:

- Don Alpert, Intel Corporation
- Bruce Lightner, Metaflow Technologies
- Keith Diefendorff, Motorola
- Tom Riordan, MIPS Computer Systems
- Mike Johnson, AMD
- Alon Shacham, National Semiconductor

1:00 -- 3:00pm Open Discussion:

- The Ills of Engineering Education, Nick Tredennick, TechNerds -- Moderator
- Selling Our Souls to Foreign Competition, Brian Case, Consultant -- Moderator
- How to Make Technology Exciting, Courtenay Heater, Romcor Design -- Moderator

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#### Program Committee:

Brian Berg -- Marc Kaufman -- Fred Terman  
 Brian Case -- Bruce Koball -- Nick Tredennick  
 Chuck Clanton -- Ted Laliotis -- John Wakerly  
 Fred Clegg -- Stan Mazor -- Jim Warren  
 Fred Coury -- Ken Shoemaker -- Bob Wedig  
 Mary Eisenhart -- Michael Slater -- John Wharton

