
The Thirty-Fourth Asilomar Microcomputer Workshop

April 16–18, 2008

(Motto: *It's the Year of the RAT!*)

Wednesday, April 16

1:30pm **Opening Remarks** – Marianne Mueller, *Gardener Communications*, General Chair
John Wharton, *Applications Research*, Program Chair
Fred Terman, *Naval Postgraduate School*, Arrangements Czar

1:45pm **Eponymous Microprocessor Session** – Ken Shoemaker, *Intel Corporation*, Chair

- Restructuring the x86 Microarchitecture to Improve Power Efficiency
Ken Shoemaker, *Intel Corporation*
- The Intel Nehalem Processor Architecture
Kevin Rudd, *Intel Corporation*
- Computers and Cities
Forrest Warthman, *Warthman Associates*

3:00pm **Break**

3:30pm **How Green is Our (Silicon) Valley?** – Brian Berg, *Berg Software Design*, Chair

- Reflections on the Solar Market: An Overview of Commercial Solar Energy
Chip Krauskopf, *Entrepreneur*
- Solar Energy @ HOME: Using Pattern Analysis on the Urban Landscape
Yiyi Miao, *San Francisco State University*
- Making Cents of Solar: Some Reasoning Behind the Solar Craze
Miguel Gomez, *ActSolar*

5:00pm **Reception and Dinner**

7:20pm **Athematic Short Talks[†]** – Bob Wedig, *Wedig Consulting*, Time Keeper

- How Color Vision Works: Everything They Taught Us at School Was Wrong!
Clive “Max” Maxfield, *Techbites Interactive*
- The 700 MHz Spectrum Auctions: Much Ado About Nothing!
Dwayne Hendricks, *Tetherless Access, Inc.*
- Open-Source Physical Security: A Third Way?
Christine Peterson, *Foresight Nanotech Institute*
- Naughty Bits: Has the Adult Online Industry Learned Anything From
Mainstream Silicon Valley?
Matt Peterson, *Meta Interfaces*
- How to Document Software History
Bernard Peuto, *Concord Consulting*
- How MySpace Has Forever Changed MeatSpace
Clayton Stark, *Flock, Inc.*
- The EvoGrid: An Artificial Life Experimental Cyberspace
Bruce Damer, *Biota.org*
- Where Robot Cars May Actually Take Us
Brad Templeton, *Electronic Frontier Foundation*

10:45pm **Optional Unstructured Après-Athematic Non-Session** – Bruce Koball, *Motion West*, Non-Chair

Thursday, April 17

8:15am **Alternative Energy Technology** – Bill Cheswick, *AT&T Research*, Chair

- Re-Assessing the Energy Crisis and Future Energy Resources
Robert Cousins, *Cousins Research*
- Doing the Splits: Looking Ahead in Nuclear Reactors
Christine Cockey, *Mistral Mountain*
- Farming Microalgae: From Photons to Fuel
Guido Radaelli, *Aurora Biofuel*

10:00am **Break**

10:30am **Internet I: (:- (?** – Dewayne Hendricks, *Tetherless Access, Inc.*, Chair

- After the Last IPv4 Address
Matthew Kaufman, *Adobe Systems Inc. / Gatspeed Broadband*
- A Perfect Storm: The Impending Internet Melt-Down
Tim Pozar, *Late Night Software*
- The Internet Identity Crisis: What Does Identity Mean Online?
Eric Allman, *Sendmail, Inc.*

12:00pm **Lunch**

1:30pm **Sea Tech: Voyager** – Christine Peterson, *Foresight Nanotech Institute*, Chair

- The World in 25 Feet: Over the Roads, Through the Canals and Across the Oceans in an Aluminum Tug Yacht
Charles Vollum, *Boojum*
- An Autonomous Solar-Powered Boat – Architecture & Design (Re)Considerations
Mark Moulding, *MARKE Systems, Inc.*
- Out of the Box: The Role of Ignorance in the Creation of a New Species
Ugo Conti, *Marine Advanced Research, Inc.*

3:00pm **Break**

3:30pm **Internet II: (:-) !** – Tim Pozar, *Late Night Software* & Marianne Mueller, *Gardener Communications*, Co-chairs

- Customer-Driven Network Hardware Reliability
David Hsiao, *Cisco Systems, Inc.*
- Combating eFraud and Internet Abuse
Rick Wesson, *Support Intelligence, LLC*
- Why Networks Still Suck: Rearchitecting Systems to Promote Innovation
Martin Casado, *Stanford University*

5:00pm **Reception and Dinner**

7:30pm **Open Discussion: A Rich Asilomar Tradition** – Mary Eisenhart, *Mary Eisenhart Editorial Services* & Craig Hughes, *Pro Se*, Tag-Team RAT Patrols; Bruce Koball, *Motion West*, Resident A/V Wizard

(Ten-minute presentations on any subject you choose. Contact Mary Eisenhart as soon as practical after registration to secure your time slot. *First-come first-assigned!*)

Friday, April 18

- 5:30am Pre-dawn briefing of Ariane Range Safety Officer volunteers^{††}**
(Self-organizing; attendance optional.)
- 8:15am The AMW Great Debate on Network Neutrality** – Dewayne Hendricks, *Tetherless Access, Inc.*, Moderator
Position statements and panel discussion. Panelists to include:
- Bill Cheswick, *AT&T Research*
 - Matthew Kaufman, *Adobe Systems Inc. / Gatespeed Broadband*
 - Brad Templeton, *Electronic Frontier Foundation*
 - (additional panelist(s) to be announced)
- 9:30am Break**
- 10:00am The Technology of Aging** – Pierluigi Zappacosta, *Sierra Sciences*, Chair
- Deciphering the Genetics of Human Aging
Michael West, *BioTime Inc.*
 - Prospects for Truly Defeating Aging
Aubrey de Grey, *The Methuselah Foundation*
- Panel discussion and Q&A moderated by Pierluigi; above speakers to be joined by:
- Mark Muhlestein, *Aging Homo Sapiens*
 - Christine Peterson, *Foresight Nanotech Institute*
- 11:45am Closing Remarks** – Marianne Mueller, *Gardener Communications*, General Chair
- 12:15pm Outdoor Barbecue Lunch (weather permitting)**
- 1:45pm Workshop Adjourns**

Program Committee

Michelle Aden		Tim Pozar
Brian A. Berg	Craig Hughes	David S.H. Rosenthal
Bill Cheswick	Bruce Koball	Ken Shoemaker
Fred Clegg	Stan Mazor	Fred Terman
Mary Eisenhart	Anne Mitchell	Bob Wedig
Janet Guns	Marianne Mueller	John Wharton
Dewayne Hendricks	Christine Peterson	Pierluigi Zappacosta

[†] The International Space Station will make an overflight at 8:15pm Wednesday evening, briefly passing from right to left approximately 12° above the southwestern horizon.

^{††} Vandenberg AFB has agreed to launch a spare Ariane missile Friday for the amusement of this year's attendees. Viewing details will be announced as they become known.

This program printed on recycled algae.

