
The Thirty-Third Asilomar Microcomputer Workshop

April 18–20, 2007

(Motto: *Best. Multi-Radix-Palindrome Year. Ever! †*)

Wednesday, April 18

- 1:30pm** **Opening Remarks** – Anne Mitchell, *ISIPP*, General Chair
- AMW: One Billion Seconds and Counting – Brian Berg, *Berg Software Design*
- 1:45pm** **Processor Design: Lessons of the Fall** – Stan Mazor, *Retired*, Chair
- The Symbol High-Level Language Computer: A Failure of Fairchild R&D
Stan Mazor, *Retired*
 - Recent Failures in Microprocessors
Andy Glew, *Intel Corporation*
- 2:45pm** **Break**
- 3:15pm** **AI: The Next Generation** – Stan Mazor, *Retired*, Chair
- ADUMIS: Annotating Data Using Minimally Invasive Structure
Conrad Barski, M.D., *Software Developer*
 - Facial Recognition
Kazunori Okada, *San Francisco State University*
 - Hierarchical Temporal Memory -or- Why Can't a Computer Be More Like a Brain?
Dileep George, *Numenta*
- 5:00pm** **Reception and Dinner**
- 7:30pm** **Athematic Short Talks** – Bob Wedig, *Wedig Consulting*, Time Keeper
- New-Kid Hacker Culture: Teaching the Young How to Make Things
Tom Jennings, *World Power Systems*
 - Cultural Technical Practice of Harnessing a Real-Time Massive Online Community
Marvin Park, *University of California Irvine*
 - TAA: Technically Advanced Aircraft, the Bonanza G36
Dave Hampton, *Sounds Amazing! Design*
 - An Ultrafast Optical Digital Technology: Smart Light
Alan Huang, *Terabit Corporation*
 - My House, Live On the Internet
Mark Lacas, *MaxHome*
 - Design Process for Low-Cost Toys
Jeri Ellsworth, *Self-Taught Electrical Engineer*
 - Making Peace Between Viacom and YouTube: Sharing Videos with
Invisible Commercials
Bob Zeidman, *Zeidman Consulting*
 - Filling the Vacuum Microsoft is About to Create
Chuck McManis, *Google, Inc.*
- 10:30pm** **Post-Athematic: The Next Generation** – Bruce Koball, *Motion West*, Producer

Thursday, April 19

8:30am Storage: Heroic Technology Racing After Exploding Demand

Brian Berg, *Berg Software Design*, Chair

- A Brief History of Storage: ‘How’ Chasing ‘What’ and ‘Why’ -or- What Is All That Stuff, and What Do You Intend To Do With It?
Leonard Laub, *Keryston Associates, Inc.*
- Consumer Storage is ‘Mass’ Storage
Tom Coughlin, *Coughlin Associates, Inc.*
- Storage on the Lunatic Fringe
Tom Ruwart, *Sherwood Information Partners, Inc.*

10:00am Break

10:30am Eponymous Microprocessor Session – Ken Shoemaker, *Intel Corporation*, Chair

- Intel Architecture Processor Technology: Not Your Father’s Sliced Bread
Kevin Rudd, *Intel Corporation*
- CUDA: A New Model for Computation on the GPU
Nicholas Wilt, *nVidia Corporation*
- Audio Signal Processing: From Valves to VLSI
Patrick Warrington, *Calrec Audio, Ltd.*

12:00pm Lunch

1:30pm Data Mining – Marianne Mueller, *Gardener*, Chair

- Sloan Digital Sky Survey
George Fekete, *Johns Hopkins University*
- How I Might Spend \$50MM of Black Money at the NSA
Bill Cheswick, *AT&T*
- “Nurse, This is Mr. Cheswick”: Mining Public Sources for Private Information
Ellen Cousins, *Primos Research*

3:00pm Break

3:30pm Aerospace: Around, Above and Beyond – Dewayne Hendricks, *Tetherless Access*, Chair

- Federal Space Policy and FAA Guidelines for Space Travel
Dewayne Hendricks, *Tetherless Access*
- Webcams From Space
Rick Voreck, *Space Systems/Loral*
- How’s Your Suntan Coming? Dyson Dots Revisited
Robert G. Kennedy III, *The Ultimax Group, Inc.*
- Saving the World: A Holistic Approach to Pragmatic Geo-Engineering
John Wharton, *Applications Research*

5:00pm Reception and Dinner

7:30pm Open Discussion: A Rich Asilomar Tradition – Mary Eisenhart, *YOYOW*, RAT Patrol (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 20

5:30am Pre-Dawn Aston-Martin Speedboat Races

(Self-organizing; attendance optional. Bring your own mini JetCopter. And a license to hack.)

8:15am Ad-Hoc Wireless – Craig Hughes, *Gumstix*, Chair

- Big Sur WISP
Ken Shoemaker, *Intel Corporation*
- USRP: Universal Software Radio Peripheral
Matt Ettus, *Ettus Research, LLP*
- Why You Want Your Own Cellphone
Matt Hamrick, *Silicon Valley Homebrew Cellphone Club*

9:45am Break

10:15am Interesting People Doing Interesting Things in Interesting Places

Michelle Aden, *Sun Microsystems, Inc.*, Chair

- Mohenjo Daro: When Engineers Ruled
Christine Cockey, *Mistral Mountain*
- Pushing Peas Uphill: Complexity, Culture, and Corruption
Jane Sargent, M.D., *University of Massachusetts Memorial Medical Center*
- Structural Changes and Their Impact on Startups
Dave Newman, *Independent Director/VC*

11:45am Closing Remarks – Anne Mitchell, *ISIPP*, General Chair

12:15pm Outdoor Barbecue Lunch (weather permitting)

1:30pm Workshop Adjourns

Program Committee

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

† Note that: 33 in decimal = 33. 33 in binary = 100001. 2007 in hex = 7D7.
Let's all wave a big hello to Charles Simonyi on our way to the dining hall!
Reentry is scheduled for Friday morning, Pacific time. Godspeed, Charles.