
AMW43

The 43rd Asilomar Microcomputer Workshop

April 19-21, 2017

Motto: "43rd Time's a Charm!" -or- "Oui, Robots!"

Wednesday, April 19

- 1:30pm Opening Remarks** – Robert G. Kennedy III, *Ultimax Group, Inc.*, General Chair
John Wharton, *Applications Research*, Program Chair
A Message from Marianne Mueller, *AMW Chairman Emeritus*
- 1:45pm Retrospective** – Brian Berg, *Berg Software Design*, Chair
- Silicon Valley: A Century of Entrepreneurial Innovation
David A. Laws, *The Computer History Museum*
 - The Amiga 1000: A Hardware Engineering Story
Ronald H. Nicholson, Jr., *Unaffiliated*
 - Making SHAKY: The First Robot with Artificial Intelligence
Dr. Peter Hart, *Retired*
- 3:00pm Break**
- 3:30pm How It Happened** – Anne Mitchell, *ISIPP*, Chair
- Fake News, Social Media, and the Election: Echo Chambers and the Competition for Our Attention – Giovanni Luca Ciampaglia, *The Hoaxy Project, Indiana University*
 - No Good Deed Goes Unpunished
Dr. Paul Vixie, *Farsight Security, Inc.*
 - Hack the Vote: Election 2016
Dr. Rebecca Mercuri, *Notable Software, Inc.*
- 5:00pm Welcome Reception and Dinner**
- 7:30pm The Ritual Running of the Newbies** – Robert G. Kennedy III, *Ultimax Group, Inc.*, Newbie Wrangler
- 7:50pm Athematic Short Talks** – Robert G. Kennedy III, Timekeeper
- How it All Began (and Why)
Mary Eisenhart, *Mary Eisenhart Editorial Services*; with Lee Felsenstein and Bob Frankston
 - A New Software Social Contract
Eric Hughes, *Unaffiliated*
 - Pining for Software Utopia
Anatole Shaw, *Twitter, Inc.*
 - Controlling Government Surveillance: Oakland Leads the Way
Lou Katz, *Metron Computerware, Ltd.*
 - How I Finagled about a Dozen Invitations to White House Events – Nancy Blachman, *Julia Robinson Mathematics Festival* (Founder) and *Gathering 4 Gardner* (Chair)
 - Mind Your Own Beeswax: Hacking the Broodminder Apiary Controller
Bill Cheswick, *Gentleman Farmer*
 - What a Long, Strange Trip It's Been: AMW, Government, and the Future of Technology Partnering – Maj. Jennifer J. Snow, *United States Air Force*[†]

10:30pm Sneak Preview: *The Silicon Valley Revolution*, a documentary by Jan Tenhaven

Thursday, April 20

8:15am I, Car -or- Highway to (Robot Car) Hell – Brian Berg, *Berg Software Design*, Chair

- The Consumer Perspective of Our Autonomous Future
Timothy E. Woods, *Autonomous Vehicle Alliance*
- MacroBase: An Analytics Engine for Prioritizing Attention in Fast Data
Kexin Rong, *Ph.D. Candidate, Stanford University*
- Domain-Specific Languages for Programming Autonomous Vehicles
Sridhar Sharma, *Intel Labs*
- The Human Side of Robot Cars
Dr. Ioannis Kanellakopoulos, *Oraton Consulting*

10:00am Break

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

- Dealing with Larger Virtual Memory Pages
Dick Sites, *Ex-Google*
- 3D Graphics and the Evolution of Mobile GPUs
Michael Shebanow, *Samsung Semiconductor, Inc.*
- The REX Neo: A High-Performance, Power-Efficient Many-Core Architecture
Thomas Sohmers, *REX Computing*

12:00n Lunch

1:30pm Technology Vehicles and Intelligent Machines – John Wharton, *Applications Research*, Chair

- Orbiting the Earth (sort of) for \$328 and 7 Grams of Rocket Fuel
Phil Karn, *Retired*
- From Robot Wheelchairs to Hacking Cars
Specter, *@dicesoft.net*
- Zero-Shot Translation: Google's Multilingual Neural Machine Translation System
Melvin Johnson, *Google, Inc.*

3:00pm Break

3:30pm Beneficial Cooperation: Building Bridges Between Government and Technology

Communities – Maj. Jennifer Snow, *USAF and SOFWERX Military Tech Incubator*, Chair

- Emerging Disruptive Technologies and Self-Regulating Communities
Dr. Leo Blanken, *Naval Postgraduate School*
- Defending Nothing: An Analog Model for Cyber Defense – Cdr. Pablo Breuer, *Naval Postgraduate School and Navy Center for Information Warfare and Innovation*
- iGem: Reaching Out to the Biohacker Community
Dr. Megan Palmer, *Stanford University Center for International Security and Cooperation*

Panel discussion and Q&A – Jen Snow, Moderator

Above speakers to be joined by:

Kristen Tsolis, *Naval Postgraduate School RoboDojo*

5:00pm Reception and Dinner

7:30pm Open Discussion: A *Rich* Asilomar Tradition – Mary Eisenhart, *Mary Eisenhart Editorial Services, RAT Patrol*

Ten-minute presentations on any subject you choose. Contact Mary Eisenhart immediately upon registration to request a time slot, first-come, first-reserved. All attendees welcome to sign up. Try not to dawdle; slots get grabbed up fast! Warning: Some time-slot shrinkage may occur as the witching hour draws nigh.

Friday, April 21

- 5:30am Pre-dawn robot dune buggy races** (Self-organizing; bring your own robot dune buggy)
- 8:15am A Conversation on Time, Causality, and Human Expectations** – Brian Berg, *Berg Software Design*, Chair
- A Datacenter Without Timeouts
Dr. Alan Karp, *EARTH Computing Corp.*
 - Unbase: a Distributed Database for Human Interaction
Daniel Norman, *güdTECH, Inc.*
 - Time for a New Model of Time in Computer Science?
Dr. Paul Borrill, *EARTH Computing Corp.*
- Panel: Do Our Models of Time and Causality in Computer Science Need an Upgrade?**
– Paul Borrill, *EARTH Computing Corp.*, Moderator
- 10:00am Break**
- 10:30am AMW Past, Present, and Future: What's in Store for '44?**
Open Group Discussion – Robert G. Kennedy III, *Ultimax Group Inc.*, Moderator
- 11:45am Closing Remarks**
- 12:00n Outdoor Barbecue Lunch** (weather permitting). Convene in the fire pit/picnic area near the flagpole.
- 2:30pm AMW43 Workshop Adjourns^{††}**

Organizing Committee

Brian A. Berg		Marianne Mueller
Bill Cheswick	Janet Guns	David S.H. Rosenthal
Fred Clegg	Dewayne Hendricks	Ken Shoemaker
Bob Cousins	Robert G. Kennedy III	Jen Snow
Mary Eisenhart	Bruce Koball	Fred Terman
John Feland	Anne P. Mitchell	John Wharton

[†]Maj. Jennifer Snow has asked to be identified as “JJ Snow, Geek Gamer Girl and Friendly Fed”.

^{††}Contact Brian Berg for info on Friday's dedication of a Gary Kildall plaque at the NPS.

A memorial service for Becky Bace will be held at 4:30pm Friday in San Jose;
Contact Mary Eisenhart or pick up a printed flyer for address and details.

Thursday marks the 45th anniversary of the Apollo 16 moon landing.

Friday marks 25 years since the discovery of extrasolar planets.

Saturday Cassini deorbits for its terminal mission phase.

The numbers 2017 and 43 are both, alas, prime.

Please join us for AMW44, [dates TBD].

Stay tuned to <www.amw.org>,

& Thanks for Coming!