AMW43

The 43rd Asilomar Microcomputer Workshop
April 19-21, 2017

Motto: “43rd Time’s a Charm!” -or- “Oui, Robots!”

Wednesday, April 19

1:30 pm 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

1:45 pm 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 SHAKEY: The First Robot with Artificial Intelligence
     Dr. Peter Hart, Retired

3:00 pm Break

3:30 pm 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.

5:00 pm Welcome Reception and Dinner

7:30 pm The Ritual Running of the Newbies – Robert G. Kennedy III, Ultimax Group, Inc., Newbie Wrangler

7:50 pm 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†
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, gidTECH, 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       Bill Cheswick       Fred Clegg
Janet Guns          Dewayne Hendricks  Robert G. Kennedy
Mary Eisenhart      Bruce Koball       Jen Snow
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!