The 42nd Asilomar Microcomputer Workshop

May 4-6, 2016

Motto: “Can We Really Be The Answer?”

Wednesday, May 4

1:30 pm  Opening Remarks – Marianne Mueller, Asilomar Microcomputer Workshop, General Chair
John Wharton, Applications Research, Program Chair

1:50 pm  Updates from Far, Far Afield – John Wharton, Applications Research, Chair
  • Captain’s Log: A Report from the Tennessee Valley Interstellar Workshop
    Robert G. Kennedy III, TVIW †
  • Technoarcheology Update
    Dennis Ray Wingo, Skycorp
  • Meanwhile, Back On the Farm...
    William Cheswick, Gentleman Farmer

3:00 pm  Break

3:30 pm  Revisiting Alternative Energy – Bob Cousins, Cousins Consulting, Chair
  • The Future of Algae Farming: Replacing Fossil Fuels
    Aaron Wolfe Baum, GreenSpring LLC
  • Carbon Nano-Tube Solar Cells
    Laurence H. Cooke, NovaSolix, Inc.
  • Writing Geothermal Law for the Great Rift Valley: The Issues Are Deeper Than You Think
    Robert G. Kennedy III, Tetra Tech

5:00 pm  Welcome Reception and Dinner

7:30 pm  Athematic Short Talks – Marianne Mueller, Asilomar Microcomputer Workshop, Timekeeper
  • A Flash in the Valley, and Other Industry Milestones
    Brian A. Berg, Berg Software Design
  • The Benefits of Flexible Storage Controllers
    Richard Fetik, Data Confidential
  • Emulation as a Preservation Strategy
    David S.H. Rosenthal, LOCKSS Program
  • Comparative Skeletal Anatomy: Bones Are Cool!
    Kirsten Malmquist, Safari West Wildlife Preserve
  • A Thousand People Driven by Code at 200 MPH
    D J Capelis, Capelis Discarnate
  • The Tracery Programming Language (or: How I Found Out What I’d Actually Created)
    Kate Compton, UC Santa Cruz
  • Frugal Engineering: A Hand Cranked Defibrillator
    Sreeram Dhurjaty, Dhurjaty Electronics Consulting LLC
  • Open Source Legalese: Software is Eating Law
    Virgil Griffith, Backbone Telecommunications

10:30 pm  Late Night Snacks
Thursday, May 5

8:30am  The Future of Eponymous Microprocessors: RISC, VISC, or NISC? – Ken Shoemaker, Intel Corporation, Chair

• New Frontiers in Computing  
  Ken Shoemaker, Intel Corporation
• RISC-V: Instruction Sets Want to be Free  
  Krste Asanović, UC Berkeley
• VISC™: A New CPU Architecture  
  Mohammad Abdallah, Soft Machines, Inc.
• Neural Net Accelerators for Machine Learning Workflows  
  Jeremy Bruestle, 10^26 Labs, Inc.

10:00am  Break

10:30am  Deep Understanding: The Search for Intelligent Life in Cyberspace – Brian A. Berg, Berg Software Design, Chair

• Applying Machine Learning to Web Discrimination Problems  
  Chuck McManis, IBM Corporation
• Building Search for the Wayback Machine  
  Greg Lindahl, Internet Archive
• Exposing and Searching the Dark Web  
  Virgil Griffith, Backbone Telecommunications

12:00n  Lunch

1:30pm  Looking at Crowds from Both Sides Now – Dewayne Hendricks, Tetherless Access, Chair

• Circuit Stickers: From Research Project to Research Product  
  Jie Qi, MIT Media Lab
• My Crowdfunding Experiences  
  David S.H. Rosenthal, LOCKSS Program
• Kickstarting Transporter  
  Geoff Barrall, Imation
• Crowdfunding Experiences II  
  Dewayne Hendricks, Tetherless Access

3:00pm  Break

3:30pm  Mobile Robots and Autonomous Machines – John Wharton, Applications Research, Chair

• An Autonomous Coffee Run with a Mobile Robot  
  Tony Pratkanis, Stanford University
• How to Train Your Robot  
  Choong Ng, 10^26 Labs, Inc.
• After Moore: Autonomous Machines and The Next Big Thing  
  Dave Wyland, The Wyland Group

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. Slots get grabbed up fast!  
Warning: Some time-slot shrinkage may occur as the witching hour draws nigh.
Friday, May 6

5:30am Pre-dawn autonomous dune buggy races (Self-organizing; bring your own LIDAR filters)

8:30am The Future of AMW: Is There Life After 43? – Marianne Mueller, Asilomar Microcomputer Workshop, Discussion Leader

9:00am Threat Vectors: Technology, Security, and Society – Bill Cheswick, Visiting Scholar, University of Pennsylvania, Chair
- The IoT, Self-Driving Cars, and Other Extraordinary Threats to Humanity
  Paul Vixie, Farsight Security, Inc.

10:00am Break

10:30am What’s the Next Big Question? – Bill Cheswick, Wandering Scholar, Panel Moderator
  Panel discussion. Panel members to include:
  - Allan Alcorn, Hack the Future
  - Dave Hampton, Dave Hampton Engineering
  - Marc Kaufman, Adobe Systems, Inc.
  - Maj. Jennifer Snow, USAF
  Additional panel members to be announced

11:45am Closing Remarks. Marianne Mueller – Asilomar Microcomputer Workshop, General Chair

12:00n Outdoor Group Lunch (weather permitting). Convene in the fire pit/picnic area

2:30pm AMW42 Workshop Adjourns

Program Committee

Brian A. Berg           Bill Cheswick           Anne P. Mitchell
Bill Cheswick           John Feland          Marianne Mueller
Sandy Clark             Janet Guns           David S.H. Rosenthal
Fred Clegg              Dewayne Hendricks   Ken Shoemaker
Bob Cousins             Dan Kaminsky         Fred Terman
Mary Eisenhart          Bruce Koball         John Wharton

† See <tinyurl.com/AMW42-TVIW > for Wired Magazine’s article on RGKIII’s TVIW

Congrats, Lee Felsenstein, for being named a Computer History Museum Fellow
2016 = 2^5 • 3^2 • 7 = 00000111111000000; 42 = 2 • 3 • 7 = 01010101_2 = 224
2016/42 = 48 = 2^4 • 3 = 000011000000_2 = 003004 = 060_8 = 030_16

Thanks, Tim Pozar, for producing Radio Free Asilomar

Join us for AMW43, April 19-21, 2017
Stay tuned to <www.amw.org>

& Thanks for Coming!