
AMW44

The 44th Asilomar Microcomputer Workshop

April 25-27, 2018

Motto: "It's Always Raining Stone Soup Here"

Wednesday, April 25

- 1:30pm** **Opening Remarks** – Robert G. Kennedy III, PE, *Ultimax Group/Tetra Tech*, General Chair
Newbies Raise Hands; Kudos to Our Treasurer, and also Mystery Melipater|mater
- 1:45pm** **Barlow Was Right about Africa (part I)**—Robert G. Kennedy III, PE, *Tetra Tech*, Lead
- Why Everything You “Know” re: Africa Is Wrong—The Future I Saw in the Rift Valley
RGK3, *Ultimax Group/Tetra Tech*
 - The Mongol Cheese Caper: How the Internet Slipped Into Mongolia
Dewayne Hendricks, *Tetherless Access, Inc*
 - Lions On The Runway, And Electrons And Photons Spin Counterclockwise: The Uneven Truth of Telecom in Africa—Michael Kleeman, *University of California, San Diego*
- 3:00pm** **Break**
- 3:30pm** **Barlow Was Right about Africa (part II)**—Robert G. Kennedy III, PE, *Tetra Tech*, Lead
- 5 Vignettes re: Distributed vs. Monolithic (cells v. landlines, mobile money v. banks, drones v. roads, local clinics, solar clean water)—John Novitsky, *independent consultant*
 - Burkina Faso—The New Hub for Technological Experiment (and/or) Innovation?
Désiré Banse & Carol Zigani, *Prometheus Computing*
 - Delphic Extemporaneity about Africa’s Promise & World’s Technofuture
RGK3 and LTC Jennifer J. Snow, *Donovan Group & SOFWERX*
- 5:00pm** **Welcome Reception and Dinner inc. Toast *en masse in memoriam***
- 7:30pm** **The Running of the Newbies** – Robert G. Kennedy III, *Ultimax Group*, Newbie Wrangler
- 7:45pm** **Athematic Short Talks** – Robert G. Kennedy III, Timekeeper
- Voice, Event Driven Context, and Vacuum Tubes—Mark Lacas, *MediaFolio*
 - Seeing into the Future of Visual Search—Kathleen Tuite, *GrokStyle*
 - Representing History, Visualizing Graph Databases—Julian Gomez, *Polished Pixels®*
- 8:45pm** **Short Break: Last Call for Alcohol**
- Why the Internet’s at the Center of Everything Today—Bob Frankston, *frankston.com*
 - Net-connected Medical Devices: What Could Possibly Go Wrong?—David Snyder, *42TEK, Inc.*
 - What Happens to Price of Plastic After We Stop Burning Oil?—Chuck McManis, *Spectranetix*
 - You Can’t Get to the Moon by Building More Ladders, or, Neural Nets Won’t Save Us—
DV Henkel-Wallace, *leela.ai*
 - Spectre: A Clever Villain's Tale—Art Kahlich, *Mill Computing*
 - To Bee or Not To Bee, That Is the Question: Bad Puns and the Search for Useful Data on a Scientist’s Farm and Apiaries—Lorette Cheswick, *cheswick.com*
 - **Wednesday late night screening:** Ches analyzes a short cold war propaganda piece on security by Chuck Jones—Bill Cheswick, *Gentleman Farmer*

Thursday, April 26

- 8:00am Eponymous μ Processor Session: Smeltdown & Other Vulnerabilities**– Ken Shoemaker, *Intel Corporation*, Lead
- Spectre and Meltdown: the Evil Ghost in Your Machine
Andy Glew, *comp-arch.net*
 - The Significance and Implications of the Backdoor Problem
Mark Cummings, *Orchestral Networks*
 - Securing Processors from Time-Side Channels
José Renau, *University of California Santa Cruz*
- 9:30am Break**
- 10:00am Autonomous Self-Driving What?** – Brian Berg, *Berg Software Design*, Lead
- Connecting the Autonomous Vehicle
Eamon Heskin, *Deutsche Telekom*
 - Measuring Community Acoustic Impact for Urban Air Mobility
David Josephson, *Josephson Engineering, Inc.*
 - Not Running People Over, and Other Hot Issues in Robocars
Brad Templeton, *robocars.com*
- 11:30am Lunch**
- 1:00pm Centrifugal vs. Centripetal: Are Bitcoin and “Illegal” Microsats Harbingers of the End of the Westphalian Order?** – Paul Vixie, *Farsight Security*, Lead
- Safety in Numbers
Paul Vixie, *Farsight Security*
 - Unintended Energy Consequences of Bitcoin Mining
Christine Cockey, *Mistral Mountain*
 - The Legal Implications of the Illegal Launch of Swarm Satellites
Dennis Wingo, *Skycorp*
 - (1) The Instruments of Power & (2) Virtual Nations
(1) CDR Pablo Breuer & (2) LTC Jennifer Snow, *Donovan Group & SOFWERX*
- Panel discussion and Q&A** – Paul Vixie, *Farsight Security*, Moderator
Above speakers to be joined from the Naval Postgraduate School by:
Leo Blanken, *Defense Analysis Dept.*, Kristen Tsohis, *RoboDojo*
- 3:00pm Break**
- 3:30pm Computational Craft and Creative Computing: Art, Play & Learning**–Jie Qi, *Chibitronics*, Lead
- Algorithms with Paper and Thread
Natalie Freed, *nataliefreed.com*, *educator and designer, Austin TX*
 - Parametric Thinking in Design, Learning, and Teaching
Paula Hooper, *Northwestern University*
 - CPU Dumplings and Soft Care
Taeyoon Choi, *School for Poetic Computation*
 - When Skin Meets Technology
Katia Vega, *UC Davis*
- Panel discussion and Q&A**–Jie Qi, *Chibitronics*, Moderator
- 5:00pm Reception and Dinner**
- 7:30pm Open Discussion: A Rich Asilomar Tradition**–Mary Eisenhart, *Mary Eisenhart Editorial Services*, and Kathleen Tuite, *GrokStyle*, RAT Patrollers
- Ten-minute presentations on any subject you choose. Contact Mary or Kathleen immediately upon registration to request a time slot, first-come, first-reserved. All attendees welcome to sign up. Don't dawdle; slots get grabbed up fast! Warning: Some time-slot shrinkage may occur as the witching hour draws nigh, meaning your turn may come sooner than you think.*

Friday, April 27

5:30am Pre-dawn microsat launching (self-organizing; bring your own boosters)

8:00am What's Gonna Happen to Work?—Julian Gomez, *Polished Pixels*®, Lead

- Introduction
Julian Gomez, *Polished Pixels*®
- Some Thoughts on Work
Michael Hammer, *Web Operations Security*
- Habits of a Highly Effective Superforecaster
Ellen Cousins, *Primos Research*
- Pulling Back the Curtain from Technology
Bill Pollock, *No Starch Press*

Panel Conversation on the World after Work – Julian Gomez, *Polished Pixels*®, Moderator
Above speakers to be joined by: Kristen Tsoilis, Naval Postgraduate School RoboDojo

9:30am Break

10:00am Catching A Little Bit of Heaven—T. Marshall Eubanks, *Asteroid Initiatives LLC*, Lead

- Backgrounder on Interstellar Interlopers: Getting Ready for the Next Surprise
Robert G. Kennedy III, PE, *Ultimax Group, Institute for Interstellar Studies-US*
- Such a Long Time To Be Gone, Only a Few Milliseconds To Be There: Exploration of
Passing Interstellar Asteroids—T. Marshall Eubanks, *Asteroid Initiatives LLC*
- Interstellar Capabilities: Why the Biggest Laser is Not Big Enough
Dan Fries, *Georgia Tech; Institute for Interstellar Studies-US*

11:30am Special Thanks/Recognition, What's Coming @ AMW #45 in 2019? & Closing Remarks

Open Group Discussion – RGK3, *Ultimax Group*, General Chair & Moderator

12:00n Outdoor BBQ Lunch & Group Photo (weather permitting). Re-convene in picnic area.

2:30pm AMW44 Workshop Adjourns

Organizing Committee

Core Committee

Brian A. Berg
Mary Eisenhart
Janet Guns
Dewayne Hendricks
Robert Kennedy
Bruce Koball
Marianne Mueller
Tim Pozar
Ken Shoemaker

Peripheral Committee

Bill Cheswick
Anne P. Mitchell
John Wharton

Brain Trust
Bob Cousins
David S.H. Rosenthal

Emeritus Committee

Fred Clegg
Fred Terman

Wednesday is “World DNA Day”—65 years ago, Watson & Crick published their discovery of the double helix. A year later, Bell Labs demoed the first practical solar cell. 8 years later, Robert Noyce got a patent for the IC. 62 years ago this **Thursday**, the first successful container ship, *SS Ideal X*, took to the sea. Arguably, Malcom McLean’s big idea changed the world as much as the IC has.

Friday marks 37 years since Xerox PARC introduced the computer mouse.

Please join us for AMW45, April 24-26, 2019

Stay tuned to www.amw.org

& Thanks for Coming!