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# AMW48

## The Forty-Eighth Asilomar Microcomputer Workshop

April 27-29, 2022

*“Don't Look Up - Look Out!”*

### Wednesday, April 27 (all times Pacific!)

**11:15am**—ongoing allow for COVID screening

**1:15pm** Zoom Starts Countdown Screen—A/V team

**1:30pm** Pandemic Greetings, Call for Volunteers & Gifts—Robert G. Kennedy III PE (hereinafter just “RGK3”), *Ultimax Group*, General Chair

**1:45-3:15pm** Remembering Who We Lost—Brian Berg, *Berg Software Design*, Lead

- *in-person* Nick Nichols *Remembered by Brian Berg*
- *remote* Fred Clegg *Remembered by Chuck House*
- *pre-recorded* Irene Watson *Remembered by Fred Coury*
- *remote* Jane Sargent *Remembered by Ellen Cousins*
- *remote* Dave Wyland *Remembered by Mike Cheponis*
- *pre-recorded* Dave Hughes *Remembered by Dewayne Hendricks*
- *in-person* Jim Warren *Remembered by Lee Felsenstein and Brian Berg*

**3:15pm** Break - Zoom has audience shot with countdown clock-A/V Team

**3:30pm** Athematic Short Talks, Part I—Ken Shoemaker, *retired Intel Corp.* *gavelmeister*

- *remote* PCB Assembly at 1/100<sup>th</sup> the Cost, Tim Kay, *independent mind*
- *remote* Once and Future Gaming, Roy Harvey, *Electronic Arts*
- *remote* Large-Scale Heterogeneous SOCs, Mark Cummings, *Orchestral Networks*
- *remote* War vs. Energy Transition, Paul Monus, *retired BP*
- *in-person* Information Theory & Design of Programming Languages - Shevek

**5:00pm** social break and room check-in for In-Person participants

**6:00pm** Dinner (outdoors or indoors, socially distant but still within range of lobbed dinner rolls)

**7:00pm** Free-Form Random Access of Remote and In-Person (outdoor bar open to 10pm)

**7:30pm** Meet the 21! New Minds (21%!)—RGK3, *Ultimax Group*, elevator speeches by (12 in-person, 6 remote, 2 drive-bys): Roger Andersson *in person*, Dan Armbrust *drive-by*, Charles Berret *in person*, Cassidy Cobbs *remote*, Robert Colwell *remote*, Debendra Das Sharma *drive-by*, Federico

Faggin, *remote*, Seth Elkin-Frankston *remote*, Tom Gardner *in person*, Peter Glaskowsky, *drive-by*, Meadhbh Hamrick *in person*, Roy Harvey *remote*, Tim Kay *remote*, Kurt Keville *in person*, Andrew Kirkpatrick *in person*, John Malczyk *remote*, Robert Rich *in person*, Marc Rogers *in person*, James Schalkwyk *in person*, Shevek *in person*, Vicky Tuite *in person*, Arthur Ulfeldt *in person*, Jack Weast *in person*

**8:00-9:45pm And Now for Something Completely Different**—Brian Berg, *Berg Software Design*, Lead

- *in-person* **8:00pm Slow Music in a Manic World: A History of Deep Listening**—Robert Rich, *Ambient & Electronic Musician*
- *in-person* **8:30pm The Film-Making Experience**—Roberto Miller, *Pure Grain Digital Productions*
- *independent remote viewing & in-person viewing* **8:45pm The Four Lives of Federico Faggin**—film screening
- *in-person (Roberto) & remote (Federico)* **9:15pm Film Discussion**—Roberto Miller, *Pure Grain Digital Productions*; Federico Faggin, *author, inventor, Intel 4004 designer*

## Thursday, April 28 (all times Pacific!)

**8:30am Long Athematic Tech Talks Part II:** Dennis Allison, *Stanford Timekeeper*

- *in-person* Understanding Software Dynamics, Richard Sites, *independent mind*
- *in-person* A One-gram Interstellar Spacecraft, James Schalkwyk, *Breakthrough Initiatives*
- *flyby* Copackage Photonics, Andy Bechtolsheim, *CEO, Arista Networks*

**10:00am Break**

**10:15am Eponymous  $\mu$ Processor Super Session**— Ken Shoemaker, *retired Intel Corp.*

- *drive-by* Enabling a Chiplet Ecosystem, Debendra Das Sharma, *Intel*
- *drive-by* Semiconductor Startup Challenges, part 1, Dan Armbrust, *Silicon Catalyst*
- *drive-by* ditto, part 2, Dan Armbrust, *Silicon Catalyst*

**12:00n Lunch**

**1:15pm Autonomous Vehicles!** Ken Shoemaker, *retired Intel Corp.*

- *in-person* The State of Makerspace Level Robotics, Kurt Keville, *MIT*
- *in-person* Everything You Know is Wrong, Brad Templeton, *robocars.com*
- *in-person* Why Autonomous Vehicles Aren't Going to Kill Us All, Jack Weast, *Intel/Mobileye*

**2:45pm ML & AI supersession + roundtable:** Lead, Dennis Allison

- *drive-by* Accelerated ML & Carbon: Decade of Lessons Learned, Dave Patterson, *Google*
- *flyby* extemporaneous remarks, Dennis Abts, *groq*
- *flyby* extemporaneous remarks, Sean Lie, *Cerebras.net*
- *flyby* extemporaneous remarks, Peter Glaskowsky, *Esperanto Tech*
- *flyby* extemporaneous remarks, Bob Montoye, *VP for Semiconductors @ IBM*

**4:45pm Break**

**5:00pm Trust is Just a Name on a Bank:** Lead, Ken Shoemaker, *retired Intel Corp.*

- *in-person* Hybrid Warfare, Marc Rogers, *Okta & Co-founder CTI League*
- *in-person* Evidence-Based Trust in Hardware: Precursor—Andrew “bunnie” Huang, *bunnie:studios*

**6:00pm Dinner**

**7:00pm This is your one chance to take a minute!**

**7:30pm Open Discussion: A Rich Asilomar Tradition**— Kathleen Tuite, RAT Patroller  
*Ten-minute presentations on any subject you choose. Contact Kathleen immediately upon registration to request a time slot. All participants welcome! Everyone must sign up online ahead of time with title and correct name whether they’re in-person or not.*

<https://forms.gle/oiEUff7aBdJuDTGo8> *Don’t dawdle; slots get grabbed up fast!*

## **Friday, April 29 (all times Pacific!)**

**8:30am Panel: All This and World War III?**—Dennis Allison, moderator, *Stanford*

- *in-person* Gilmore’s Aphorism—Still Valid in the post-Ukraine World, Tim Pozar, *TwoP*
- Possible prerecorded video montage by Tim to set stage for structured discussion
- *flyby* Herb Lin, *Hoover Institution*
- *flyby* Kathryn Stoner, *Hoover Institution, Stanford University*
- *flyby* Bruce Schneier, *Berkman-Klein Center, Harvard*
- *flyby* Martin Hellman, *Stanford emeritus*
- *in-person* by the two Pauls:
  - Extemporaneous remarks, Paul Saffo, *Institute for the Future*
  - Eliminating the .ru TLD, Paul Vixie, *AWS Security*

**10:30am Break**

**11:00am Orthogonal Shotgun: Ideas on Different Directions (à la Jim Warren)**—Brian Berg, *Berg Software Design*, Lead

- *in-person* The Heritage of the “Orthogonal Shotgun”—Brian Berg, *Berg Software Design*
- *in-person* Repair the Climate by 2050!—David Henkel-Wallace, *Blue Dot Change*

**11:30am Thanks/Kudos, Call for Vols & Dols, What’s Coming @ AMW49**—RGK3

**12:00n Outdoor BBQ Lunch & Group Photo** (weather permitting, re-convene in fire pit area)

**2:00pm AMW48 Workshop Adjourns**

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A Zoom link to the Remote Workshop will be emailed out to all registrants

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<b>AMW48 Organizing Committee</b>		
<i>Core Committee</i>		<i>Brain Trust</i>
Dennis Allison	Marianne Mueller	Bob Cousins
Brian Berg	Tim Pozar	Jie Qi
Mark Cummings	Ken Shoemaker	David S.H. Rosenthal
Janet Guns	Kathleen Tuite	Jen Snow
Dewayne Hendricks	<i>Peripheral Subcommittee</i>	<i>Emeritus Subcommittee</i>
Robert Kennedy	Bill Cheswick	Fred Clegg (RIP)
Bruce Koball	Mary Eisenhart	Fred Terman

<b>General Chairs of Yore</b>	
Ted Laliotis (RIP), 1975-1983	Allan Schiffman, 1984
John Wharton (RIP), 1985-1997	Brian Berg, 1998-2000
Mark Laubach, 2001	Mary Eisenhart, 2002-2005
Anne Mitchell, 2006-2007	Marianne Mueller, 2008-2016
Robert Kennedy, 2017-	

<b>Program Chairs of Yore</b>		
Fred Coury & Fred Clegg, 1975-1983	John Wharton (RIP), 1985-97, 1999-2017	Bob Wedig, 1998

**Wednesday** 501 years ago (1521): Ferdinand Magellan killed by natives at Battle of Mactan, Philippines. 36 years ago (1986), the Chernobyl Disaster happens.

**Thursday** 75 years ago (1947): Thor Heyerdahl's *Kon-Tiki* sets sail across the Pacific to prove a point.

**Friday** marks the 30<sup>th</sup> year since the 1992 so-called Rodney King riots in Los Angeles.

Please stay tuned to [www.AMW.org](http://www.AMW.org) for the 2023 dates of AMW49.

Suggestions for speakers, participants, or session topics for AMW49: [chair@AMW.org](mailto:chair@AMW.org)