

AMW49

The Forty-Ninth Asilomar Microcomputer Workshop

April 26-28, 2023

[“It’s About Time, It’s About Space” \(TV Series Theme Song here\)](#)

Wednesday, April 26 (all times Pacific!)

11:30am–Workshop check-in & COVID self-testing with our kits lend a hand if you can!

1:00pm Zoom Starts Countdown Screen – A/V team plays the 1960s comedy theme

1:15pm Welcome – “It’s About Time, It’s About Space” ‘Splained - **Call for Volunteers & Gifts**
– Robert G. Kennedy III PE (hereinafter just “RGK3”), *Ultimax Group*, General Chair

1:30pm Athematic Short Talks I – Brian Berg, *Berg Software Design*, gavelmeister

- *in person* Shadowing Dark Caracal – Cooper Quintin, *EFF*
- *in-person I*, Inventor – Brent Yamashita, *DLA Piper*
- *remote* FT8: Disruptive Killer App Transforming Ham Radio – Bennett Smith, *PatentVentures*
- *in-person* Radio Free Milky Way – Ches, *retired*
- *in-person* Amateur Astrophotography – Hy Murveit, *as himself*

3:00pm Short Break

3:15pm Athematic Short Talks II – Brian Berg, *Berg Software Design*: gavelmeister

- *in-person* Spectre in the Rearview Mirror – Thaís Moreira Hamasaki @ *Intel*
- *in-person* Nuclear Notions – Christine Cockey, *Mistral Mountain*
- *remote* Current State of RNA/DNA Sequencing Technologies – Cassidy Cobbs, *Memorial Sloan-Kettering & Tennessee Valley Stellar Corporation, hereinafter, “Stellarcorp”*
- *in-person* An Anthropologist Looks at Debt – Meadhbh Hamrick, *Elsewhere, LLC*
- *in-person* Utah Computer Graphics Milestone – Brian Berg, *Berg Software Design*
- *in-person* Homage to Nick Tredennick – Brian Berg, *Berg Software Design*

4:45pm Welcome Reception and Room Check-in for In-Person Participants

6:00pm Dinner (Woodlands Dining–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 20 New Minds (20%!) – RGK3, *Ultimax Group*, **elevator speeches by** (12 in-person, 8 remote) – Sabina Anja *in-person*, David Berger *remote*, Paul Borrill *remote*, Bob Brennan

in-person, Kerem Çamsarı *in-person*, Michael Frank *remote*, Henry McNeil *in-person*, Benjamin Mencer *in-person*, Thaís Moreira Hamasaki *in-person*, James Pack *in-person*, Kristin Paget *in-person*, Cooper Quintin *in-person*, Kim Scott *remote*, Ken Shirriff *remote*, Adam Shostack *in-person*, Zoya Slavina *remote*, Jonas Susaraba *remote*, Katarzyna Wac *remote*, Jennifer Wang *in-person*, Brent Yamashita *in-person*

8:00-11:00pm Gordon Moore Retrospective – Ken Shoemaker *retired Intel*, gavelmeister (note: *off-the-record rule may be suspended for this one session*)

- How It All Started – *in-person* Stan Mazor interviewed by Ken Shoemaker
- Impact of Moore’s Law on Technology – Panel moderated by Dennis Allison *in-person* Bill Davidow, *in person* James Harris, *in person* Uri Weiser
- AMW Goes to the Movies: Gordon Moore at EE380 – played by Dennis Allison

Thursday, April 27 (all times Pacific!)

7:30am–ongoing allow for COVID self-testing with our kits lend a hand if you can!

8:30am It’s About Time – RGK3, *Institute for Interstellar Studies-US*, and *Stellarcorp*

- *remote* What Time Is It On The Moon? – T. Marshall Eubanks, *Space Initiatives Inc.*
- *in-person* Radioisotopes Я Us, Clocks, & Update on 1-g Interstellar Attoprobes– RGK3, *I4IS*
- *remote* Clock Coherence, from Terrestrial Microdatacenters to Interstellar Attoprobeswarms – Paul Borrill, *Dædælus*

10:00am Long Break

10:30am Eponymous μ Processor Session – Ken Shoemaker, *retired Intel Corp.*

- *in-person* Open System Foundry, A New Approach – Bob Brennan, *Intel Foundry Services*
- *in-person* P-Bits: Between a Bit and a Qubit – Kerem Çamsarı, *UCSB*
- *in-person* Storage Technology Limits – Tom Coughlin, *IEEE*

12:00 Lunch

1:00pm Mischief in the Modern World I: AI & ChatGPT – Dennis Allison, *Stanford*: Lead

- *remote* Deep Learning Transformer Architectures – Katarzyna Wac, *Univ. Geneva*
- *remote* Does An AI Own the Fruits of Its Own Labor? – Zoya Slavina, *Univ. Bialystok*
- *remote* Gaming the Future – Christine Peterson, *Foresight Institute*
- *in-person* Threats from LLMs – Adam Shostack, *shostack.org*

3:00pm Short Break

3:15pm Mischief in the Modern World II: Fakes & Crypto – Dennis Allison, *Stanford*: Lead

- *in-person* (30 mins) Deep Fakes and Their Consequences – Benji Mencer, *UCSD*
- *Remote* (30 mins) Cyber War Games – Kim Scott, *Eleventen Solutions*
- *in-person* (45 mins) Crypto: My Part In Its Downfall – David S.H. Rosenthal, *retired*

5:00pm Advance Planning for AMW50 / Reception for In-Person Participants

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 their talk title and correct name whether they're in-person or remote.
<https://forms.gle/oiEUFf7aBdJuDTGo8> Don't dawdle; slots get grabbed up fast!

Friday, April 28 (all times Pacific!)

7:30am—ongoing allow for COVID self-testing with our kits

8:30am It's About Space: Hardware Trumps All – Robert Kennedy, *Stellarcorp*: Lead

- *in-person* Progress Report on Methane Removal with ISA – Gumby, *Blue Dot Change*
- *in-person* Progress Report on the DpD – Dru Kirkpatrick, James Pack, RGK3, *Stellarcorp*

9:30am Short Break

9:45am Three Views of the Future by Three Pauls – RGK3, *Stellarcorp*: Moderator

- *remote* Apocalypse Now? – Paul Monus, *retired BP*
- *in-person* remarks – Paul Saffo, *Institute for the Future*
- *remote* extemporaneous remarks – Paul Vixie, *AWS Security*

11:30am Thanks/Kudos, Call for Vols & Dols, What's Coming @ AMW50 – RGK3

12:00n Checkout + Strike the Set! – Shevek, Tim Požar, Tom Gardner, Rocky Mullins. Please help!

1:00pm Outdoor BBQ Lunch & Group Photo (weather permitting, served on the Fred Farr patio)

2:00pm AMW49 Workshop Adjourns

This hybrid event has been made possible by our remarkable A/V crew (Shevek, Tim, Tom, Rocky).
A Zoom link to the Remote Workshop will be emailed to all registrants

Wednesday 24 years ago: first known virus to target PC's flash BIOS, "CIH/Chernobyl" one of most destructive in history, triggers. 90 years ago today, the Gestapo was established. Earlier that year, so was the British Interplanetary Society. Go figure.

Thursday 42 years ago: Xerox introduced 8010 Star Information System, first commercial system utilizing a mouse. 232 years ago: telegraph inventor Samuel F.B. Morse (1791-1872) born in Charlestown, Mass.

Friday 20 years ago: Apple Computer launched iTunes Music Store, selling music for 99¢ a song; changed music industry forever. 50 years ago: Pink Floyd's *The Dark Side of the Moon* hit #1 on Billboard's Top 200 LPs, and it was on this chart for a record 978 weeks.

Please join us for **AMW50!** April 24-26, 2024

Suggestions for speakers, participants, or session topics for AMW50: chair@AMW.org

AMW49 Organizing Committee		
<i>Core Committee</i>		<i>Brain Trust</i>
Dennis Allison	Marianne Mueller	Bill Cheswick
Brian Berg	Tim Požar	Bob Cousins
Mark Cummings	Ken Shoemaker	Jie Qi
Tom Gardner	Shevek	David S.H. Rosenthal
Janet Guns	Kathleen Tuite	Bruce Koball
Dewayne Hendricks	<i>Peripheral Subcommittee</i>	<i>Emeritus Subcommittee</i>
Robert Kennedy	Mary Eisenhart	Fred Terman

General Chairs of Yore	
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-	

Program Chairs of Yore		
Fred Coury & Fred Clegg (RIP)	John Wharton (RIP), 1985-97, 1999-2017	Bob Wedig, 1998