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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 Lead: Brian Berg, *Berg Software Design*

- *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 Brian Berg*

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

3:30pm Athematic Short Talks, Part I Timekeeper: Ken Shoemaker, *Intel Corp. (retired)*

- *in-person* PCB Assembly at 1/100th 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. *Google*

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

6:00pm Dinner

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

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Faggin, *remote*, Seth Elkin-Frankston *remote*, Tom Gardner *in person*, 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 Lead: Brian Berg, *Berg Software Design*

- *in-person* Slow Music in a Manic World – A History of Deep Listening: Robert Rich, *Ambient & Electronic Musician*
- *in-person* The Film-Making Experience: Roberto Miller, *Pure Grain Digital Productions*
- *film screening via independent remote viewing & in-person viewing* **The Four Lives of Federico Faggin**
- *in-person (Roberto and Brian) & remote (Federico)* Film Discussion: Roberto Miller, *Pure Grain Digital Productions*; Federico Faggin, *author, inventor, Intel 4004 designer*; Brian Berg, Berg Software Design

Thursday, April 28 (all times Pacific!)

8:30am Athematic (Long) Talks, Part II Timekeeper: Dennis Allison, *Stanford University*

- *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 µProcessor Super Session Lead: Ken Shoemaker, *Intel Corp.(retired)*

- *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! Lead: Ken Shoemaker, *Intel Corp. (retired)*

- *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, *Stanford University*

- *drive-by* Accelerated ML & Carbon: Decade of Lessons Learned: Dave Patterson, *Google*
- *flyby* extemporaneous remarks: Sean Lie, *Cerebras.net*
- *flyby* extemporaneous remarks: Peter Glaskowsky, *Esperanto Tech*

4:45pm Break

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

- *in-person* Hybrid Warfare: Marc Rogers, *Okta & Co-founder of The 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 <u>*Rich*</u> Asilomar Tradition RAT Patroller: Kathleen Tuite, *ODK*

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? Moderator: Dennis Allison, *Stanford Univ.*

- *in-person* Gilmore's Aphorism-Still Valid in the post-Ukraine World: Tim Požar, *TwoP*
- *pre-recorded* Arturo Filastò, *The Open Observatory of Network Interference (OONI)*, in discussion with Tim Požar, *TwoP*
- Panel Discussion:
    - *flyby* Herbert Lin, Fellow, *Hoover Institution on War, Revolution and Peace at Stanford University*
    - *flyby* Bruce Schneier, Fellow, *The Berkman-Klein Center For Internet & Society at Harvard University*
    - *in-person* Marc Rogers, *Okta & Co-founder of The CTI League*
    - *in-person* Paul Saffo, *Stanford University*
- *in-person* Can We Eliminate the .ru TLD – and Should We?: Paul Vixie, *AWS Security*

10:30am Break

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

- *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*

11:45am Thanks/Kudos, Call for Vols & Dols, What's Coming @ AMW49 RGK3

12:00n Outdoor BBQ Lunch

1:30pm AMW48 Workshop Adjourns

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

Thanks in particular to Tim Požar, Shevek and Tom Gardner for facilitation of this hybrid workshop!

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AMW48 Organizing Committee		
Core Committee		*Brain Trust*
Dennis Allison	Marianne Mueller	Bob Cousins
Brian Berg	Tim Požar	Jie Qi
Mark Cummings	Ken Shoemaker	David S.H. Rosenthal
Janet Guns	Kathleen Tuite	Jen Snow
Dewayne Hendricks	*Peripheral Subcommittee*	*Emeritus Subcommittee*
Robert Kennedy	Bill Cheswick	Fred Clegg (RIP)
Bruce Koball	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, 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 Nuclear Power Plant Disaster occurred.
Thursday 75 years ago (1947): Thor Heyerdahl's *Kon-Tiki* set sail across the Pacific to prove a point.
Friday 30 years ago (1992): the start of the 1992 so-called "Rodney King riots" in Los Angeles, CA.

Please stay tuned to www.AMW.org for the 2023 dates of AMW49.
Suggestions for speakers, participants, or session topics for AMW49: chair@AMW.org

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