

Silicon Valley Engineering Council

Nomination of

William “Bill” Jennings
for the
2018 Hall of Fame Award

Additional Supporting Information for the Nomination

Hall of Fame Nomination: additional supporting information:

1. Video (public domain) from TV show Dr. Phil using Prysm Wall

Archived on <http://www.teamjennings.net/Dr-Phil-endorses-Prysm.mp4>

Dr. Phil in the first minutes of his Season 13: "We went to the Best of the Best, and we told them we wanted things bigger, we wanted them brighter, and we wanted them better. We have been working on it for months, and today, here it is!" (Dr. Phil then interacts with the Prysm Wall, which has an embedded touch screen).



Hall of Fame Nomination; additional supporting information:

2. Chip Scale Atomic Clock on display at the Smithsonian



Symmetricom Chip Scale Atomic Clock (CSAC)



DESCRIPTION

Chip-scale atomic clocks (CSAC) have components comparable in size to the integrated circuits ("chips") used in modern electronic equipment. They were first developed by the Defense Advanced Research Projects Agency (DARPA) and the National Institute of Standards and Technology (NIST) in 2004. The first commercial version is this cesium CSAC with model number SA.45s, produced by Symmetricom, Inc., in Beverley, Mass., and sold beginning in 2011. Its "physics package" (the set of components that generate the cesium frequency) occupies less than 1 cubic centimeter, thousands of times smaller and lighter than the beam tube of a conventional cesium atomic clock and operates on very different principles. Furthermore, the energy consumption is much less, making extended operation on battery power feasible. Developing such a small clock required many innovations in several disciplines, including semiconductor laser technology, silicon processing, vacuum-packing and firmware algorithms. Its portability and low energy consumption have made possible many new applications, such as geophysical sensors, backpack jammers for improvised explosive devices, backpack military radios, unmanned aerial vehicles (drones) and military GPS receivers, but, as of 2013, it has not yet been used in space.

MAKER

Symmetricom, Incorporated

PHYSICAL DESCRIPTION

metal (clock material)
cardboard, foam (box material)

MEASUREMENTS

clock: 1 in x 2 in x 1 3/4 in; 2.54 cm x 5.08 cm x 4.445 cm
box: 1 1/2 in x 4 3/4 in x 4 1/4 in; 3.81 cm x 12.065 cm x 10.795 cm
overall-box: 1 1/8 in x 4 3/8 in x 3 7/8 in; 2.8575 cm x 11.125 cm x 9.8425 cm
overall-clock: 1/2 in x 1 5/8 in x 1 3/8 in; 1.27 cm x 4.1275 cm x 3.4925 cm

ID NUMBER

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ACCESSION NUMBER

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CATALOG NUMBER

2011.0207.01

SEE MORE ITEMS IN

Work and Industry: Mechanisms
Measuring & Mapping
Time and Navigation

EXHIBITION

Time and Navigation, National Air and Space Museum

DATA SOURCE

National Museum of American History, Kenneth E. Behring Center

Hall of Fame Nomination: additional supporting information:

3. Train Safety at Train Days: Los Altos History Museum

Train Days Roll Again At Los Altos History Museum

Bring the family for a day of model railroading and a dose of local history!

By Susan C. Schena (Patch Staff) - ([https://patch.com/users/susan-c-](https://patch.com/users/susan-c-schena5f2639ca489673e3efe4d6587b6f868fbfce9e45b4b04dba4e9677f47ec0ff3e)

[schena5f2639ca489673e3efe4d6587b6f868fbfce9e45b4b04dba4e9677f47ec0ff3e](https://patch.com/users/susan-c-schena5f2639ca489673e3efe4d6587b6f868fbfce9e45b4b04dba4e9677f47ec0ff3e)) Updated September 15, 2016 9:29 am ET



LOS ALTOS, CA – Train Days returns to the [Los Altos History Museum](http://www.losaltohistory.org/) (<http://www.losaltohistory.org/>) for two days of train-filled fun celebrating the joy and wonder of model railroading on Saturday and Sunday, Sept. 17 and 18, from 10 a.m. to 4 p.m

Elaborate layouts, intricate scenery, and scaled renditions of prototypes and whimsical engines and theme cars complete with steam, lights and sound, will speed the rails to delight visitors of all ages. Explore the gauges and scales associated with model railroading as private collectors and clubs showcase and field questions about the mechanics and electronics of their trains and layouts and the history behind the locomotives and railroads that inspired them.

Participants include:

- Live Steamers from the Bay Area Garden Railway Society
- Diablo Pacific Short Line
- Golden Gate Lionel Railroad Club
- Golden State Toy Train Operators

- Peninsula NTRAK and AsiaNRail
- National Model Railroad Association
- Private Collector: LEGO Layout

Joining the above is: California Operation Lifesaver, who will provide education on proper rail safety and the US Park Service Trails & Rails

Program, Train Days' glitter tattoo station and its train-themed marketplace will also be in full gear, and Quick Dog and Scoops will be serving up hot dogs, burgers and ice cream to keep train patrons well-fed throughout the day!

"We're pleased to bring visitors something new every year", says event chair Kristen Fuller. "This year we welcome the Golden Gate Toy Train Operators, who will display an interactive layout displaying vintage toy trains of three different gauges, S, O and HO and invite visitors to control some of the switches and accessories."

- Admission: \$5/person (Ages 4 and under free)
- Children under 12 must be accompanied by an adult

Trains are integral to America's and our local history. For more than 150 years, rail service has been transporting passengers along the Peninsula. In 1907 Southern Pacific put Los Altos on the map with its steam railway connecting Palo Alto to Los Gatos. Mirroring railroad development through the years, you'll see the transition from early steam locomotives to diesel engines up through electric and high-speed passenger trains—all scaled in miniature. Whether you're new to model railroading or have been an enthusiast for years, come join the fun and see why it is one of the most beloved hobbies around the world.

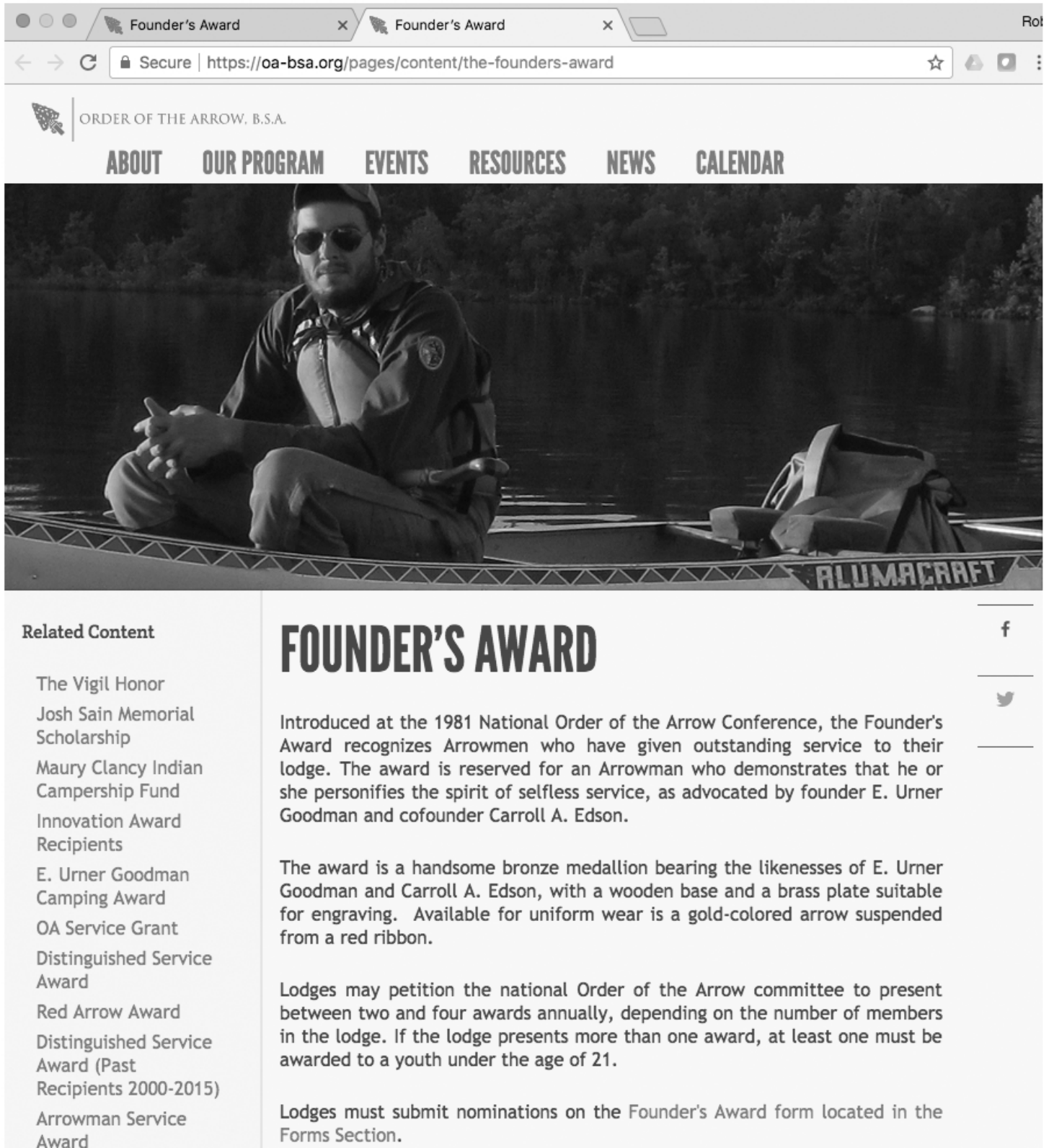
Train Days is brought to you by the Los Altos History Museum, dedicated to preserving and sharing local history to enrich our community and to shape a more informed future.

Both the Museum and J. Gilbert Smith House are located on one of the last active apricot orchards in the Santa Clara Valley. The 1905 shingled farmhouse was built with many Craftsman-style features was our first museum, opened in 1977. In the spring of 2001, the Los Altos History Museum opened in a modern, impressive three-level, 8,200-square-foot building, built entirely with private donations. Ownership was transferred to the City of Los Altos in 2002.

--Information submitted by and image courtesy of [Los Altos History Museum](https://www.facebook.com/LosAltosHistory/) (<https://www.facebook.com/LosAltosHistory/>)

Hall of Fame Nomination: additional supporting information:

4. Founder's Award: Boy Scouts of America



ORDER OF THE ARROW, B.S.A.

[ABOUT](#) [OUR PROGRAM](#) [EVENTS](#) [RESOURCES](#) [NEWS](#) [CALENDAR](#)

FOUNDER'S AWARD

Introduced at the 1981 National Order of the Arrow Conference, the Founder's Award recognizes Arrowmen who have given outstanding service to their lodge. The award is reserved for an Arrowman who demonstrates that he or she personifies the spirit of selfless service, as advocated by founder E. Urner Goodman and cofounder Carroll A. Edson.

The award is a handsome bronze medallion bearing the likenesses of E. Urner Goodman and Carroll A. Edson, with a wooden base and a brass plate suitable for engraving. Available for uniform wear is a gold-colored arrow suspended from a red ribbon.

Lodges may petition the national Order of the Arrow committee to present between two and four awards annually, depending on the number of members in the lodge. If the lodge presents more than one award, at least one must be awarded to a youth under the age of 21.

Lodges must submit nominations on the Founder's Award form located in the Forms Section.

Related Content

- The Vigil Honor
- Josh Sain Memorial Scholarship
- Maury Clancy Indian Campership Fund
- Innovation Award Recipients
- E. Urner Goodman Camping Award
- OA Service Grant
- Distinguished Service Award
- Red Arrow Award
- Distinguished Service Award (Past Recipients 2000-2015)
- Arrowman Service Award

Hall of Fame Nomination: additional supporting information:
4. Some of Bill's Scouting Awards: Boy Scouts of America



Section Chief
of Section Southeast
Region II (TN & KY)



E. Urner Goodman
Founder's Award

Eagle Scout with
Four Palms

God and Country
Religious Award

Shiloh Veteran
Hiker's Award

Hall of Fame Nomination: additional supporting information:

5. Philmont Ranger Job Description: Boy Scouts of America



in: Articles Needing Fact Cleanup, Article stubs, Content

Ranger

Nominally, a Ranger is an outfitter, a guide, a teacher, and a mentor—a person who takes on a crew of young adventurers, leads them into the Philmont mountains, and points the way until they are ready to function on their own. The Ranger welcomes and orients crews, helps them pare down personal and crew gear until each person has a manageable load. Once on the trail, the Ranger introduces the crew to local conditions and methods of low-impact camping, and reviews essentials of camping, hiking, first aid and safety. The Ranger may point out the trail the first day or so, but the real objective is to ensure that the crew can find its own way.

The beginning of each summer, Rangers are provided a framework consisting of a fieldbook, training, and methods. But these tools are not everything needed for the camping season. Rangers have to add life through their own personality and experience. Rangers defined are budding adults with variety and distinctiveness. The department exudes group spirit. The opportunity to serve as a Ranger is a small window, though abides throughout life. Their impact reaches thousands.

The Ranger may also convey something of the "magic of Philmont"—of the beauty and wonder of the mountains, the varied flora and fauna, and the history that lies strewn about in the form of old mines, overgrown railroad beds, and the tumbledown ruins of logging camps.

In reality, the experience of being a Ranger is more than the job description. Rangers are known for their high spirit and a can-do, will-do attitude. In the face of hardship or challenge, they are more likely to be energized than discouraged or defeated. If needed to clear trail after a blowdown, fight a wildfire, search for a lost camper, or carry a litter off a mountain, they are ready.

The shared experience of being a Ranger has a way of creating lifelong friendships and forging bonds of understanding, even among Rangers of different eras. The experience can produce a syndrome—probably incurable—characterized by feelings of pride, exhilaration, nostalgia, and longing, lasting years or even decades. It is a phenomenon that can prove baffling to spouses and acquaintances who haven't been there, but it mostly leaves old Rangers remembering cherished friends and places, and thinking, "I wanta go back to Philmont—where the old Rayado flows . . ."

Hall of Fame Nomination: additional supporting information:

5. Philmont Ranger Job Description: Boy Scouts of America

PHILMONT SCOUT RANCH

BOY SCOUTS OF AMERICA

RANGER POSITION DESCRIPTION

POSITION CONCEPT

The Ranger is responsible for cheerfully and willingly serving as a member of the Ranger Department, the objective of which is to serve the campers and advisors who come to Philmont. His/her primary duty is to educate participants in Philmont backpacking practices and outdoor ethics. The Ranger is a frontline representative of Philmont Scout Ranch and is directly responsible to his/her Ranger Trainer.

PHILMONT REQUIREMENTS

- Provide and maintain a cheerful, helpful, and efficient service to all Philmont guests. Insure that all participants have a safe and enjoyable experience. When possible, solve their needs and concerns; when not possible, direct them to someone who can.
- Carry out the prescribed policies and procedures of the Philmont Scout Ranch as outlined in the Staff Guidebook and during staff training.
- Present oneself to every participant and guest clean, sharp-appearing, and correctly uniformed as described in the Staff Guidebook.
- Become familiar with all materials supplied prior to the camping season.
- Become familiar with all pertinent Philmont policies and procedures.
- Must be 18 years of age by time of employment.

SPECIFIC JOB REQUIREMENTS

- Ability to hike up to 15 miles a day over rugged, mountainous terrain while carrying a 45 pound backpack.
- Ability to effectively communicate Philmont camping procedures to crews.
- Actively participate in all training requirements and pass the Ranger Basic Test after a five-day backcountry training trek.
- Be an advocate and expert of the Ranger Field Book and Philmont camping method.
- Submit a completed Philmont Health and Medical Form, meet the Height/Weight Requirements for backcountry participation, and be able to lift and handle 70 pounds.

PRINCIPLE RESPONSIBILITIES

- Be an enthusiastic, friendly, and effective educator of outdoor skills and wilderness ethics.
- Be a frontline representative of Philmont and give crews the information and training required to have a successful trek in the backcountry.
- Be an attentive resource for a crew during an assignment with them, both in Base Camp and in the backcountry, and prepare them to have a successful experience over the duration of their trek.
- Assist other departments across the Ranch to ensure its mission and the efficient operation of program is upheld.

DAILY OPERATIONS

- When assigned a crew, greet them and prepare them for their trek. Guide them through Base Camp with stops at places such as Registration, Medical Recheck, Logistics, Outfitting Services, Dining Hall meals, chapel services, and opening campfire. Conduct a shakedown of all personal and crew equipment to ensure the crew's readiness to hit the trail.
- On the second day with a crew, depart for the backcountry and educate the crew on topics such as navigation, hiking etiquette, campsite setup, bear and wildlife procedures, first aid, cooking skills, and Philmont history.
- On the third day with a crew, observe and evaluate the group's knowledge of material instructed to them the previous day. Re-train the crew and go into more detail if they do not display a satisfactory understanding of Philmont's backcountry protocol.
- Throughout an assignment with a crew, develop leadership skills in all youth and adults and give guidance to the Crew Leader, Chaplain's Aide, Wilderness Pledge Guide, and Advisors in the duties of their respective roles.
- Towards the end of an assignment with a crew, pass on information about wilderness stewardship and outdoor ethics using the Philmont Wilderness Pledge as well as personal stories and insight.
- Complete required paperwork and documentation in a timely fashion.
- Assist with other Ranch functions through workday assignments and special projects when asked or assigned.
- If called upon, serve as a replacement advisor for a crew, ranging from 1-12 days in length.
- Under direction from the Chief Ranger, an Associate Chief Ranger, or a Program Coordinator, be willing to serve as a team member on a Search and Rescue operation.