



MOAH UPDATE

January 2017
Number 81

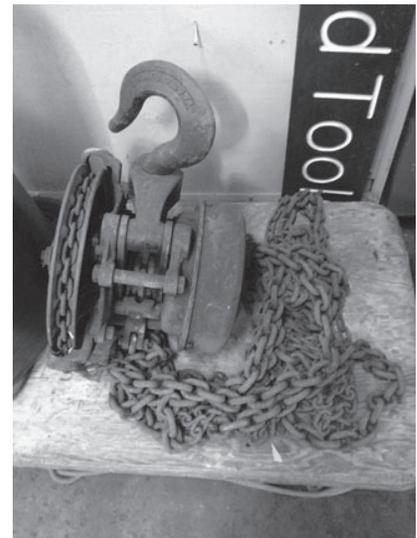
Invention & Technology
1750 - 1950

When Things Get Rusty

How do you remove rust from artifacts and keep any fine details in the piece intact? All museums share the same challenge: remove only the rust and stop when you get to the bare metal. Chemicals that contain acids, like Naval Jelly, use phosphoric acid to remove rust. It's the same acid found in some soft drinks and will remove tooth enamel the same way. The problem with acids is that they don't know when to stop. Leave the artifact in the acid solution too long, and it can eat away at delicate engravings, or worse, it could dissolve small artifacts entirely. Yikes!

Other chemicals, like Evapo-Rust, try to remove rust by chelation, in which a chemical binds tightly to the rust and pulls it into solution. This product is effective at rust removal, but its potency decreases with use and you must buy more, which can become costly when you have lots of items to work on.

Mechanical methods, such as the use of a wire brush or abrasive pads, will remove surface rust, but can also harm delicate details. This method can be quite labor-intensive on large objects.



Inside This Issue

President's Message.....	2
Board & Staff.....	2
Executive Director's Message.....	3
Volunteer Opportunities.....	3
Exhibits.....	4
Summer Concert Series.....	7
Technical Education.....	8
At The Lectern.....	9
MOAH Thanks.....	10
In Memoriam.....	11
Calendar of Exhibits & Events.....	12
Membership Report.....	12

What MOAH has been using for the majority of its de-rusting projects is electrolysis ... not the hair removal kind, but an electrochemical process. The rusty part is suspended in an electrolyte solution, and a wire is attached to the part with another wire attached to a piece of steel, also hanging in the solution tank. The wires are connected to a power supply, with the positive (+) wire going to the piece of steel and the negative (-) wire going to the part to be de-rusted. The power is turned on and adjusted to somewhere around 12 - 15 volts and 2 - 3 amps of current. The part is left in the tank for anywhere from 24 hours to a week, depending on several factors,

See Rusty, page 6.

From Our President

Jim Wall



An update on our warehouse

It has been just over a year since we took possession of the new museum warehouse and moved our collection of artifacts into it. This is a good time to give everyone an update on what has been done so far and what is the current status of the warehouse.

Some of the work has been structural. Prior to the building purchase, an engineering firm was hired to inspect the building and to make recommendations on what was required to bring the building up to current earthquake code. After noting that the building was generally strong and not in need of any mandatory improvements, they made one suggested upgrade and several more optional ones to improve the safety of the building during a major earthquake. We have implemented their one recommendation to improve the fastening of all twelve of the roof truss beams to the side walls. With the addition of 24 “out of plane” fasteners, the building is now much more resilient to any prolonged shaking that might have resulted in the roof collapsing. It was decided to delay an optional fix of adding a layer of plywood to the roof until it is time to reroof the building. Another optional improvement of adding a vertical support to a previously repaired truss beam is planned, but on hold, until the placement of all the artifact shelving has been completed.

Improvements have been made to the building fire and security systems as well. The building’s fire sprinkler system was fully inspected and tested prior to occupancy. A new fire alarm control panel was installed to replace the old system, and quarterly tests are conducted to verify its operation. The older security alarm system was removed and replaced with a new monitored alarm system.

In order to keep the costs of the new warehouse to a manageable level, it was decided that the office portion of the warehouse (an attached four room addition adjacent to the original building) would be rented out. Significant work went into the upgrade of this space to make it more appealing to tenants. New paint, carpets, and window treatments were just the start. The bathrooms were renovated and a small kitchenette counter was installed. After the improvements were completed, a tenant was quickly found and is currently under a three-year lease for that portion of the building.

After all of the artifacts were moved from the previous warehouse

See From Our President, Page 10.

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MOAH Update is published bi-annually with the intent to inform, amuse and enthuse friends of the museum.

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Printing: Columbia Graphix

From Our Executive Director

Allison Wong



My new role

For those of you whom I have not had the pleasure of meeting yet, I'd like to introduce myself as the new Executive Director. I am very honored to step into this role. I am constantly im-

pressed by the involvement of our board, donors, members, volunteers and loyal visitors.

One of my favorite things I enjoy about MOAH is interacting with everyone. I want to share with you a few notable interactions I've had this past year.

Our dedicated effort to ramp up our volunteer recruitment efforts through word-of-mouth and social media have expanded our online volunteer platforms.

As you know, volunteers are an integral part of a nonprofit organization, and we continue to recruit volunteers year round. I am so impressed by the commitment and energy of our mighty MOAH volunteers!

We have also actively formed meaningful partnerships within the community. I see collaborations and partnerships as not only essential and wonderful, but also powerful. We are stronger together than as one unit.

I am happy to share with you that we've been attracting new individual volunteers and also have developed relationships with groups. For the Vintage Vehicles and Family Festival, we had a friendly group called Silicon Valley Volunteers lend their time to our event.

This spring, we had a crew from Jack Nadel International (JNI), a marketing corporation with offices in Palo Alto, working in our garden. They dedicated the day to help with spring-cleaning in the garden. Quarterly, JNI encourages their employees to volunteer in their communities for the workday. Their company-wide quarterly initiative, #JNICares, promotes volunteerism and encourages giving back to their communities.

As a museum, we exist for the public and community

See From Our Executive Director, Page 5.

Volunteer Opportunities For 2017

MOAH is on the lookout for curious and active adult volunteers. We have a variety of jobs that can provide you with some fun and rewarding volunteer experiences while you meet and work with interesting people. There is also the possibility of task-based volunteering, allowing you to help us on your own schedule. For more information about volunteering at MOAH, please contact us at 650-321-1004 or admin@moah.org.

Gallery Assistants

Are you looking for a weekend volunteer project that requires only an occasional 2.5 to 4 hour commitment? Would you like to be part of MOAH's exciting exhibits and share your knowledge? We are looking for Gallery Assistants to take occasional shifts on Fridays, Saturdays or Sundays either from 11:00AM to 1:30PM or from 1:30PM to 4:00PM. This is one area in which MOAH can really use your help!

Garden Volunteers

How about participating in the restoration and maintenance of an historic garden, while getting some fresh air and exercise and meeting some interesting people? MOAH's Garden Team is looking for additional personnel to help with both heavy and light garden duties. No experience is needed.

Education Instructors and Assistants

Have you ever thought about sharing your knowledge and talents with young people? MOAH offers weekend classes and summer camps to youth aged 9+ in science and technology. We are on the lookout for both instructors and assistants.

Exhibits Team Members

Do you love to work with others on creating educational and entertaining displays and exhibits? Do you have a passion for history? How about being a part of MOAH's Exhibits Team? We mount several exhibits each year and are looking for team members to assist with all aspects of research, development, and installation.

Publicity and Public Relations Team Members

Are you interested in communications and public relations? Do you wish more people knew about all of MOAH's great services? How about working with our Publicity Team to get the word out to our community?

Special Events Volunteers

Do you love to get involved with special events, fundraisers, and parties? Do you like the excitement of working with a team to plan and execute themed functions? How about being a Special Events Volunteer for MOAH?

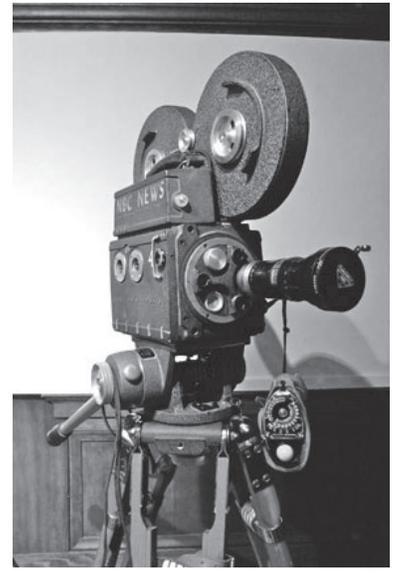
Current Main Gallery Exhibit

The Evolution of Film

Now through February 26, 2017

Visionola, Scopitone, Praxinoscope and Zoopraxiscope are just some of the many quirky inventions you'll see when you visit our newest exhibit, *The Evolution of Film*.

Building on the momentum of the wildly popular *Pinball!* exhibit that closed in August, experiential elements have been integrated in our new exhibit. Walk through time in a unique reverse chronological presentation of a wide array of artifacts. When you walk through the front door, make sure to check out our fun flipbooks, playable pre-animation model devices (zoopraxiscope, praxinoscope, and zoetrope). Towards the back of the room you'll see a nostalgic mutoscope, an early motion picture device. You also can use our magnifying glass to inspect different film reels ranging from silent talkie movie reels.



This exhibit focuses on the impact of film in America and how it changed American culture. Take some time to read our wall panels and discover how the development of film shaped America's public opinion in World War II and the Vietnam War — each in vastly different ways. You'll also see a colorful display devoted to films of 1939, dubbed "The Greatest Year in Hollywood."

Other notable inventions to check out are a rare and short-lived Visionola; our research revealed that only four are in existence. A Scopitone, MTV's predecessor, is on display featuring actual Scopitone footage that would have been played in the 1960s.

Come down and visit us to see what's new! Now on display in the Moore Family Foundation Gallery.

2016 Vintage Vehicles and Family Festival



On May 7th, the Museum of American Heritage held its 12th annual big fun raising event. OK, it's also a fund raising event. As in recent years, our Vintage Vehicle and Family Fun event was held in conjunction with the City of Palo Alto's May Fete Parade. When parade participants and viewers arrived at Heritage Park (directly across the street from the museum) they were treated to a street full of vintage cars, motorcycles and tractors.

Unfortunately, unlike previous years, the weather finally decided to get involved. With the forecast predicting rain, and the skies overcast, the stage was set for some wetness. But even the early afternoon sprinkles could not keep both visitors and exhibitors alike from having a good time. In addition to the street of amazing vehicles, inside the museum grounds, there were custom bicycles to admire, science experiments to play with, and beautiful gardens to explore. And throughout the day, the popular *Pinball!* exhibit was full of adult and child visitors.

MOAH would like to convey a huge thank you to all of our exhibitors, sponsors, and volunteers who did not let a little rain dampen their spirits. The money raised from this event is important in continuing our mission to provide public exhibits and educational events, and to preserve vintage technology.

Garden Club of Palo Alto Hosts Victory Garden Open House

Connie Cavanaugh

The garden volunteers from the Palo Alto Garden Club welcomed about 20 fellow gardeners to a summer celebration at MOAH's Victory Garden on the morning of August 18. A wonderful exhibit provided information on the history of Victory Gardens in the Bay Area and included seed packs from the 1940s. Delicious treats made by garden volunteers from garden produce, including zucchini pancakes, rhubarb cake, applesauce and other yummy morsels, were available. This year we were very pleased to share with our guests the newly renovated iris bed and the restored herb beds.

We greeted Zia MacWilliams, Project Manager from the Downtown Streets Team. She works with the Food Closet at All Saints Church in Palo Alto. This is where the majority of the produce is donated each week in harvesting season. We are very pleased with the quantity and quality of produce we have delivered to the food kitchen this year: tomatoes, summer squash, cucumbers, green and purple beans, apples, eggplants, lettuces, arugula, radishes and beets. We use no pesticides and only organic fertilizers in the gardens. We look forward to picking and donating lima beans, melons and winter squash in the coming weeks.

The Victory Garden at MOAH is modeled after those created during WWII, when California residents were encouraged to grow their own produce so that preserved food was available to send to the troops. All the varieties we plant were available during the 1940s in California, and we use gardening practices that were common in the 1940s. That means no plastic strawberry baskets to protect seedlings and no Texas tomato cages or plastic trellises. This year you can see a new trellis designed and built by the garden club volunteers made of bamboo and twine. The design is in keeping with what might have been in residential gardens in the 1940s. It is currently being used to support lemon cucumbers, pickling cucumbers and pole lima beans. The only 21st century practice in place is the Netafim drip system that Girvin Peters and team installed.

I know I speak for all the volunteers when I say we are grateful to garden at the museum and appreciate the efforts of the MOAH Board, Allison Wong and others at the museum who have enabled these gardens to start to thrive again! Please stop by the next time you are visiting the museum and enjoy the garden in the fall, and maybe you will be lucky enough to see a hungry bird eating seeds from the giant sunflower.

From Our Executive Director, continued from Page 3.

as we preserve and showcase inventions of the past. We strive to seek out opportunities for MOAH to collaborate within our local community, which has always supported us in a multitude of ways.

Another partnership that I want to briefly touch upon is the connection with the Downtown Streets Team, a nonprofit organization that empowers and supports homeless individuals. You will read more about this partnership in Connie Cavanaugh's article on the Garden Club's Open House at MOAH.

This year the victory garden has produced a bountiful harvest, and Garden Club of Palo Alto (GCPA) has donated the produce to the Food Closet in partnership with Downtown Streets Team. In true victory garden style, GCPA members donated over eight bushels to the homeless in our community in the months of August and September alone.

I am reminded of how meaningful our relationships with the community are, and here at MOAH we look forward to continuing to build off of this momentum.

If you stop by MOAH, please feel free to come by and say hello! I'd love to meet you.



Rusty, continued from front cover.

such as the thickness of the rust and how many nooks and crannies the part has. The process works by line-of-sight, so the piece of steel, called the sacrificial anode, must be in a direct line of the rusty area on the part, for the process to work. The electrolyte solution is simply sodium carbonate dissolved in water. You may know this chemical as grandma's washing soda. In fact, it is still sold for that purpose to soften water in the washing machine under the brand name of Arm and Hammer Washing Soda. One of the advantages of the electrolysis process is the solution never gets used up; that's because an electrolyte simply aids in the transmission of the rust ions from the part to the sacrificial anode, but is not consumed itself. What does get destroyed is that piece of steel. That sacrificial anode gets completely consumed by the rust that is leaving the good parts and eventually needs to be replaced with a fresh piece of steel.

What it all means to MOAH is we have an environmentally efficient way to remove rust from our artifacts with no hazardous waste produced. Better yet, you can't leave the artifact in the solution too long. Once all the rust is removed, the process stops automatically, since it only works in the presence of rust. Of course we do need to take care to remove any wooden parts that could be damaged by immersion in the solution and besides rust, this process will remove paint, so those surfaces need to be dealt with by other means if you want to keep the paint intact.

One of the recent candidates for de-rusting was a 175-lb. chain fall hoist, which the City of Palo Alto gave to MOAH. It was sitting in an abandoned radio station building near the bayshore, and the damp salty air covered it with rust. Furthermore, it had some fine stamped lettering details that we wanted to preserve. Charlie Gillis and Ken Kormanak rigged up a large tank for this purpose and used a 55-gallon polyethylene garbage container and rolled some 1/8" steel plate into a cylinder and used that to line the inner diameter of the container. Adding a power supply and some clamps finished the mechanical parts. One tablespoon of washing powder per gallon of water created the electrolyte needed for the solution. After about a week running at 12 volts and 3 amps, the hoist was pulled from the tank. The parts were covered with a black coating of another form of "black rust" called magnetite. This was easily brushed off and, as we found in future projects, a pressure washer jet of water did a pretty effective job of removing the black finish.

Since magnetite is an oxide finish, it could also be left on if you were looking for a darker look to the piece. Since all the rust was now completely removed, any exposure to the moisture in the air could start areas where the magnetite was removed to rust again. This occurs so rapidly in humid conditions, that it is called "flash rust." MOAH applies an immediate spray of WD-40 to the finished part, to form a barrier against rust forming. Oiling the part could also be effective. The "WD" in WD-40 stands for Water Displacing, and it was the 40th try the scientists made at a formula that successfully kept the water off the metal.

To be perfectly honest, the chain was only about 60% de-rusted once it was taken out after a week. We think it had to do with there being a less-than-perfect electrical connection through all the links to the negative electrode. We put the chain in for another week and got about 70% of the chain rust-free. After that week was over, we used some Evapo-Rust in a 5-gallon bucket to soak the chain for another week, and it was rust-free. We can reuse the Evapo-Rust until it loses its strength, and the Material Health and Safety



The chain fall hoist as received.



The electrolysis tank.



The chain not quite done.

See Rusty, Page 7.

Rusty, continued from Page 6.

(MSDS) sheet says it may be put into the sewer system. It poses no General Health and Safety (GHS) risks to persons or the environment, although I would not recommend making a cocktail with it.

The pictures on this and the facing page show the de-rusting tank and some before-and-after views of the chain fall hoist. As you can see, the chain itself was rust free and the lettering on the side of the cover plate is easily readable. We left most of the black magnetite on the main housing, as the original was painted black.

This has become our go-to process for artifact rust removal and we feel it will serve us well in the years to come as we try to restore some of our pieces so they may be put on display. The process also delicately removes rust from between gears and connectors, so we may get parts moving again.

For those of you wanting to learn more about the electrolysis process for rust removal, there are many good quality links on the Internet. Just Google “rust removal by electrolysis” and you will find all the information to construct your own de-rusting tank and start bringing old tools, and artifacts of your own back to life.



The finished work with all the lettering details revealed.

2016 Summer Concert Series

This year, the Museum of American Heritage proudly presented its first Summer Concert Series.

Yuri Liberzon kicked off the series on June 15 with a variety of guitar music, including classical, baroque, romantic, 20th century and contemporary. Russian-born and Israeli-raised, Yuri ranks among today’s foremost classical guitarists in the United States and was granted Alien of Extraordinary Ability United States Permanent Residency based on his achievements in the music field.



On July 20, **Rive Gauche** took its MOAH audience on a trip along the Seine and through the streets of Paris. Using a combination of voice, accordion, violin, guitar and bass, Rive Gauche is a musical trio that specializes in 1920s-40s French café-style music and Gypsy jazz of the early 20th century.



The third and final concert of this year’s series featured **The**

Peralta Consort, a mixed ensemble performing music written before 1800 on a mixture of period and modern instruments. Wine and light refreshments will be served. Formed in 2006, the group is based at Foothill Presbyterian Church in San Jose.

Based on the enthusiastic reception this first concert received, MOAH hoping to “repeat the performance” in 2017.



Technical Education Update

Wendy Breu



Education Programs Reboot

Shortly before summer 2016, our core education team conducted an all-hands meeting and discussed the future of MOAH's programs and strategies for promoting higher enrollment. While we generally agreed that the decline in our class enrollment last school year might have been due to parents and students shifting their interest towards enrichment programs that focus on computer science and programming in recent years, all our volunteer instructors (Larry Pizzella, Jeff Risberg, Bob Boschert, Wes Anderson, Bob Katzive, and Jim Wall) believe that each of MOAH's class offerings is unique and relevant. The hands-on, project-oriented approach of our workshops fosters the "Maker-spirit" in our class participants.

Thus, we resumed our workshops with renewed energy in August. To kick-start our renewed effort, we hosted a free Family Science Fun event. On August 14, Mr. Science (Bob Boschert) and Wes Anderson welcomed more than thirty enthusiastic children, parents, and grandparents to a David Macaulay-like "How Things Work" session on electromagnetism and electricity. After the show-and-tell, attendees were able to explore and "play" with all the demo devices. While the children were in awe at the thunderous Tesla coil, thrilled to experience the hair-raising sensation through the van der Graaf generator, and mesmerized by the levitating spheres, the adults were disappointed to learn that they could not purchase many of the demo devices. Did I mention that Bob built **95%** of his demo devices? Our adult participants were just amazed at Bob's ingenious homemade gadgets.



Fun with (electromagnetic) levitating globes.



Attendees explored magnetism and electromagnetism.

Wonderful Endorsement!

In September, Jim Wall greeted a new group of young members of Santa Clara Lyceum to his Electrostatics and Electromagnetism class, a two-day workshop. After the first session, a parent reported, "I found the class to be very well organized. Jim certainly has a lot of experience working with kids. He broke his lecture in about the middle to give kids some hands-on time with his equipment, so they were able to pay attention for longer. I was very impressed by the tools available to kids - not many places would hand over an electrical drill to 9-year-olds. My daughter also enjoyed the class a lot - hands-on part of it was challenging but satisfying, and all kids really enjoyed 'the grand finale' when they could play with various static electricity generators and have fun shocking each other with Leiden jars. I appreciated that Jim stayed after the official end time helping some students complete their work."

See Technical Education, Page 9.

Technical Education, continued from previous page.



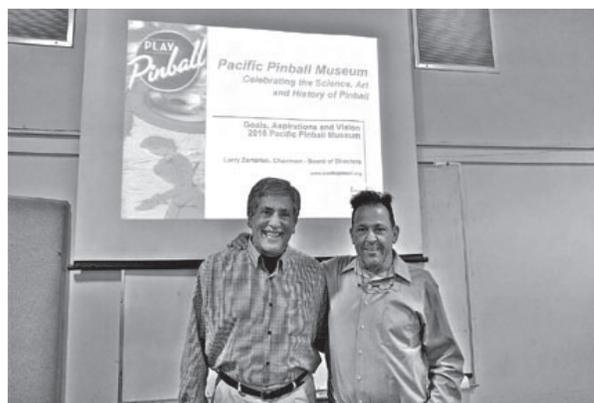
Pictures courtesy of the Figge family, one of the Lyceum chaperones.

Glowing remarks similar to the above compliments to Jim have been articulated towards other instructors through the years as well! I would like to take this opportunity to thank our awesome troop of instructors, Bob Boschert, Wes Anderson, Larry Pizzella, Jeff Risberg, Bob Katzive, and Jim Wall, for their dedication and continuing support to MOAH's education programs.

At The Lectern

MOAH's recent exhibit, *Pinball!*, consisted predominantly of machines on loan to us from the Pacific Pinball Museum (PPM), located in Alameda. As part of this collaborative effort, **Michael Schiess**, Founder and Director of PPM, and **Larry Zartanian**, President and Director of PPM, presented *The Science, Art & History of Pinball* to a MOAH audience on May 25.

Pinball machines, as we know them today, got their start as a commercial enterprise during the Depression, but their true origin lies in France in the 1700s with a game (consisting of wooden pins, small balls, and long sticks) that eventually became known as "bagatelle." With the invention of the spring-loaded launcher, the game came to resemble what we currently think of as pinball.



Larry Zartanian (l) and Michael Schiess (r).

The popularity of pinball remained strong from the 1930s to the 1970s, significantly declined with the introduction of video games, and has seen a resurgence in recent years. Unfortunately, over the years, older pinball machines have disappeared at an alarming rate. As the only organization "dedicated to the preservation of pinball art, science and history," the PPM strives to keep the spirit of pinball alive by:

- o Stimulating appreciation of pinball art
- o Inspiring interest in science, technology, engineering and math
- o Completing an authoritative history of pinball and its impact on popular culture

The PPM currently has over 1,000 machines in its collection, with about 110 on display at its facility in Alameda. It is in the midst of a campaign to raise the funds it needs to complete renovations necessary for it to move into the site of the former Alameda Carnegie Library.

Michael and Larry completed their talk with a video of Michael's visit to Silver Ball Ranch, the Sebastopol home of Richard Conger, a collector/owner of over 700 pinball machines.

MOAH Thanks ...

the following for their contributions over the past six months*:

AmazonSmile Foundation * Jane Besio * Char Bucholtz * Peter Ching * Anne & Leland Collins * IBM Corporation * Carol & Mike Kelly * Dorothy & Gordon Kino * Robert Friedman * Chiseche Mibenge * Jim & Bev Nelson * Barbara & Jim Newton * Art Notthoff * Donald & Joan Scott * Todd & Sandy Smith * William Reller * Jim & Eileen Wall * Channell Wasson

*Note: Donations received as of October 7, 2016

the following for their contributions to MOAH's exhibit on moving images and films:

Art Adams * Beth Bunnberg * Dick Clark * John Davis * Charlie Gillis * Hassett Hardware * Bob Katzive * Ken Kormanak * Wayland Lee * Sandra Roorda * Wouter Roorda * Chris Smith * Stuart Soffer * Jim & Eileen Wall * Bill Wehrend * The MOAH Collection

the Garden Club of Palo Alto and those members who take wonderful care of MOAH's grounds and gardens:

Robin Allen * Laurie Baldwin * Connie Cavanaugh * Karen Douglas * Betsy Fryberger * Hilary Joslyn * Mary Jo Levy * Nan Knoblauch * Sue Krumbein * Delia Laitin * Genie Lange * Kathy Luchini * Helen MacKenzie * Carol Malcolm * Susan McDonnell * Edith Miller * Jim Newton * Carmen Pekelsma * Herb Perry * Kevin Quinn * Joan Sanders * Judy Severson * Heidi Schwenk * Sandra Roorda * Dennis Wong

MOAH Sponsors

The Moore Family Foundation * Hassett Hardware * Frank Livermore Trust

IRA CHARITABLE DONATIONS

Congress has passed a permanent benefit for persons over 70 1/2 years old.. You can make gifts up to \$100,000 per year directly from your IRA to MOAH and have the gift count towards your Required Minimum Distribution.

Very tax wise !!!!!!!

Your IRA custodian knows howjust ask.

From Our President, continued from Page 2.

(which has been sublet and no longer a financial concern to our museum), the infrastructure of the new warehouse could be built out. Using a combination of our original shelving, newly purchased shelves, and a significant contribution of shelving from board member Chris Carter, all of the visible display shelving has been installed.

The arrangement of the artifacts is still underway and will likely change as time goes on. But once it is initially completed, we are looking forward to having a members' gala event at the warehouse so that you can all see what we have been talking about for the past year. Meanwhile every Monday morning and Wednesday afternoon, a group of volunteers meet at the warehouse. Maybe after visiting, you will decide to become one as well.

In Memoriam

Channell Wasson

1933 - 2016

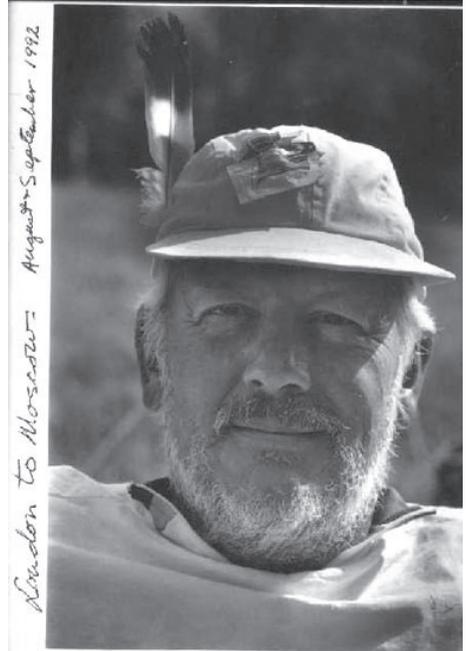
Longtime MOAH friend Channell Wasson died unexpectedly in May while swimming in the Sea of Cortez with his wife of 60 years, Janet Bingham Wasson.

Born in Canada and educated at English boarding schools, Principia College and Stanford University, Channell served in the US Navy and then worked at Merrill Lynch. He subsequently enjoyed a long career in commercial real estate and property management services.

A lifetime cyclist, Channell helped found the Palo Alto Bicycle Company and was owner of Brompton Bike in Palo Alto. He had an enviable collection of antique bikes and completed numerous impressive bike trips, including a journey from London to Moscow.

In addition to serving on MOAH's Board of Directors, Channell contributed significantly to the museum's fund-raising efforts. Having ridden his Penny Farthing bike on behalf of MOAH in various events, he suggested that MOAH establish an antique automobile event, which subsequently became the museum's signature community event, Vintage Vehicles. He displayed his Stanley Steamer at Vintage Vehicles for a number of years and also convinced several of his friends to display their antique cars at the event. Channell also sang for MOAH (as a member of the Peninsulaires, a barbershop chorus) at fund-raising events.

In addition to his wife, Channell leaves behind two adult children and five grandchildren.



How to Join and Get MOAH for your Money!

Museum members receive this newsletter; attend lectures free of charge; receive a discount on workshops and special events; and are invited to special members-only receptions for each exhibit.



- Livemore Collector \$ 2,500
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Fax: 650.473.6950

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E-mail: mail@moah.org

Located at 351 Homer Avenue, Palo Alto,

between Bryant and Waverley Streets

Hours: Friday through Sunday, 11 am-4 pm

Admission: Free

Donations welcomed

Group tours available by appointment

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MOAH EXHIBITS, CLASSES, EVENTS

Exhibits: Friday - Sunday, 11:00 AM - 4:00 PM (Group tours available at minimal fee)

The Evolution of Film

In the Main Gallery

A Century of Mechanical Toys

In the Ehrlich Gallery

Permanent Exhibits: Kitchen; Print Shop; Gardens; Marshall Mathews Garage; Dr. Williams' Office;
Ely Family Children's Room

Lectures:

*Evolution of Motion Picture Sound
Technologies and Patents*

With Stu Soffer

Thursday, February 2, 7:00PM

Members free, non-members \$10

*The Williams Garden Blooms
in Spring with Iris*

With Betsy Fryberger

Thursday, April 6, 7:00PM

Members free, non-members \$10

Event:

*2017 Vintage Vehicles
& Family Festival*

In conjunction with

Palo Alto May Fete

Saturday, May 6

For our latest class schedule, please go to www.moah.org/calendar.

Membership Report - MOAH Welcomes Its New and Upgrading Members!

New: Individual
Therese Ducay
John Elman
Laura James
Tina Klepac
Roland Long
Anna Tchalakova

Sustaining
Meg Smith
Supporting
Bruce Adornato
Robert O'Neill,
Hot Rod Insurance
Services Inc..

Upgrading: Family
Jeremy Wire
Sustaining
Helen & James Goodwine
Nancy & Norm Rossen
Nancy Steege
Caroline Zlotnick
Harriet & David Schnur

Supporting
Art Nothoff
Robin A. Sutton
Sponsoring
Nancy Mathews
Judy Pell
Patron
Chris Carter, Motion Pro
Mary & Clinton Gilliland