



San Diego Ship Modelers Guild

1492 N. Harbor Drive

San Diego, CA 92101

March 2018

NEWSLETTER

VOLUME 46, NO. III

OFFICERS

Guild Master

Jon Sanford
address redacted
phone redacted

First Mate

Ed Torrence
address redacted
phone redacted

Purser

Gary Seaton
address redacted
phone redacted

Newsletter Editor

Guy Lawrie
address redacted
phone redacted

Log Keeper

Isaac Wills
address redacted

SPECIAL ASSISTANTS

Web Master

Robert (Rob) Wood
address redacted

Presentations Coordinator

Ed Torrence
address redacted

Established in 1972 by
Bob Wright and Russ
Merrill

Attention on Deck!

It is that time to elect Guild Officers. In accordance with section 3.4 of the "Amended and Restated Bylaws, San Diego Ship Modelers Guild, January 2016", a slate was nominated and seconded during the February guild meeting held aboard the *Berkeley*. Please see the Election Ballot following the minutes for the nominated slate. **The Ballot includes space for a write-in candidate and you may vote by mail, email, telephone, or in person at the March meeting.** A ballot will be sent as a separate document for email purposes. Voting will be tabulated by Log Keeper Isaac Wills. Mail ballots to <redacted>. Email to <redacted>. Telephone <redacted>.

And less we forget St. Patrick's Day, a bit of Irish wisdom:
"Mistakes are the portals of discovery." — James Joyce

MINUTES OF 13 FEBRUARY 2018 GUILD MEETING

Guild Master Jon Sanford opened the meeting at the San Diego Maritime Museum on the Passenger Deck aboard the Steam Ferry *BERKELEY*. **Isaac Wills** began by leading

twenty-one (21) members in a recitation of *The Pledge of Allegiance*. From the left:

Doug Yumoto, Royce Privett, Steve McGivern, James Pitt, Bill Grolz, and Howard Griffus.

The meeting proceeded to **Show and Tell** before break.

Jon Sanford talked about his progress on the Royal Barge Circa 1700, **Tom Hairston** presented his paddle steamer *Portland*, **Alex Roel** keeps us up to date on his progress with the NY pilot boat *Phantom*, and **Royce Privett** showed progress on his U.S. Brig *Syren* (1803).



San Diego Ship Modelers' Guild is affiliated with and supports the Maritime Museum of San Diego



<http://sdshipmodelersguild.org/>

MINUTES continued -

Further **Show and Tell** offerings included **Don Dressel's** progress with the Dutch fluyt *Derfflinger*, **Dave Yotter's** model of USS *Swordfish* (SSN-579), and **Karl Zingheim** talked about a new project he was getting underway of USS Roper (DD-147) engaging a WWII German U-Boat. Following coffee and a snack, **Jon Sanford** conducted a book auction wielding the new Guild gavel crafted by the Museum's own volunteer and skilled wood turner, "Mack" McQuinn.



Beautiful, the gavel that is! The meeting was concluded with the following business meeting before adjourning.

Purser's Report: Purser Gary Seaton reported the

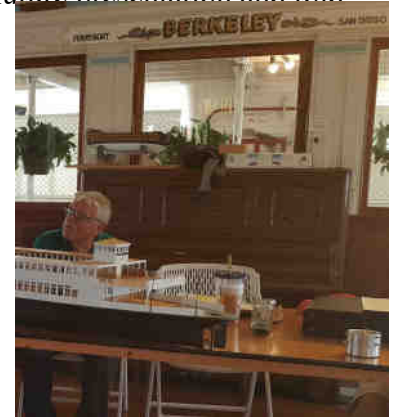
guild balance as of 1 February was \$<redacted>. **It is time to collect Membership Dues!** Dues will remain at \$20.00. Gary Seaton accepts checks or cash and they can be brought to a monthly meeting or mailed to: Gary Seaton, <redacted>. Checks can be made payable to "San Diego Ship Modelers Guild".

Editor's Report: Guy Lawrie was unable to attend this meeting.

Log Keeper Report: Isaac Wills had nothing new to report.

Web Master's Report: Rob Wood was unable to attend the meeting and had no news to report.

First Mate's Report: Ed Torrence reported Isaac Wills would be making a future presentation and told a story about the piano that provides a backdrop to Guild Meetings aboard the *Berkeley* as seen here behind Gary Seaton. Ed discovered when watching Ken Kramer's program on PBS "About San Diego", this very piano was aboard a two-deck ferry named



Roseville plying the waters between the small community of Roseville and San Diego during the early 1900's. Well, to entertain passengers on their ride, the ferry company hired a piano player. Little did they know the piano player could only recite a single song! Not a particular problem for the passengers as the ride was short but the boat's



engineer was soon exasperated enough he threatened to quit if the piano player was not fired! And now; all these years later, here sits the piano! **Though not the *Roseville*, perhaps she looked**

something like this ferry from a later era.

continued next page

**Next meeting is
13 March 2018
5:30 PM - Social
5:30 Officer's Meeting
6:00 PM Meeting
Bring a Model!**

March 2018

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Community Build Meeting, 1:00 PM aboard the Berkeley upper passenger deck!

MINUTES continued -

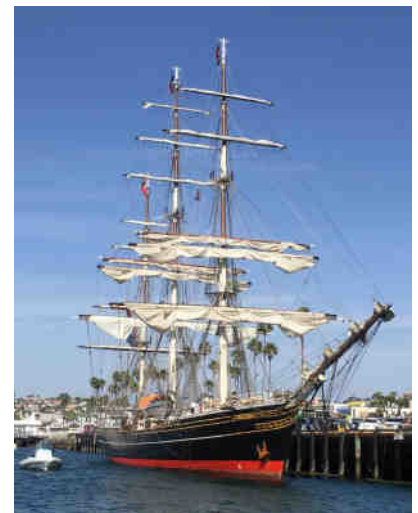
First Mate's Report continued: James Pitt delivered the first orders of Guild polo shirts with embroidered logo. The short sleeve shirt sells for \$23.25 including tax and a long sleeve shirt is available for \$25.25 including tax. If interested, contact James at <redacted> and he can help with the ordering. Good work, James and Ed!



Guild Master and Museum Report: Guild Master Jon Sanford reported he is searching for a metal engraver who can craft an identifying band for the gavel. Any help is appreciated, just contact Jon. As Jon transitions into his role as Fair Coordinator he reports fair meetings are underway with the fair theme "How Sweet It Is".

continued above

For those who missed her, see the following pictures of the *Stad Amsterdam* during her San Diego port of call. Note the visit aboard her by Isaac Wills and Jon Sanford.



Along with Museum Collection Manager Kevin Sheehan, Jon reported a cash award for models judged: 1st prize - \$500, 2nd prize - \$200, and 3rd prize - \$100. **Look to submit your model(s) to qualify for these awards! Entry deadline is April 27, 11:59 PM. Entry web site and entry rules: <https://sdfair.com/entry>** A fair sign-up schedule is posted at the back of the newsletter. Please volunteer to man the booth as soon as able and note that experienced help is needed for booth setup and takedown. **Let's represent the Guild with our models and booth presence!**

The Guild has produced about 250 mini-"Star" model kit projects for handout to young visitors at the fair booth. Increasing the inventory will provide many more opportunities to interact with visitors at not only the fair booth but also the Museum Model Shop. Jon noted **Museum Model Shop volunteers are always welcome and we are always looking for more support!** Working in the Museum Shop not only supports the Museum but also provides its own rewards including the smiles seen in this picture.



Article 3.4, SDSMG Bylaws January 2016

3.4 Election of Officers. The Guild master shall conduct an election yearly. In January the Guild Master shall appoint a nominating chairman who shall report nominations at the February meeting. Nominations from the floor shall also be taken. Ballots with the nominees shall be published in the newsletter prior to a vote at the March meeting. All votes received by mail, electronically, by phone and those given at the meeting will be tabulated to determine the winners. Mail, email and phone votes shall be made to the log keeper. In the event of a close election, telephonic votes will be verified. The elected slate of officers shall take office at the March meeting.

**San Diego Ship Modelers Guild
2018 Officer Elections
Ballot**

The Ballot includes space for a write-in candidate and you may vote by mail, email, telephone, or in person at the March meeting. Voting will be tabulated by Log Keeper Isaac Wills. Mail ballots to <redacted>. Email to <redacted>. Telephone <redacted>.

Officer Post	February Nominations	Yes	No	Write in
Guild Master	Ed Torrence			
Guild Master	Karl Zingheim			
First Mate	James Pitt			
Log Keeper	Isaac Wills			
Purser	Gary Seaton			
Editor	Guy Lawrie			

The ballot will be sent as a separate word file for email purposes along with the March newsletter.

Presentation Report

There was not a presentation at the February meeting but **Isaac Wills** has rescheduled a report on The Secret Society of Model Builders of San Diego "Winterfest 2018" scale model contest.

As a bonus, former Guild Editor **Chuck Seiler** offers the following: **PEGASUS CROSS**

SECTION: Chuck Passaro's New Project and Model Ship World Contact

"I wanted to take the opportunity to introduce Guild members to a new project **Chuck Passaro** is designing. During one of the breaks at the February Guild Meeting, I spoke to **Jon Sanford** about a potential follow-on group build project to the "Queen Anne's Barge" the group is currently working on. Jon had his model of the barge at the meeting.

Many of you know Chuck. He has designed the barge and cutter *CHEERFUL* models, which he sells through his own company. Additionally, he designed (among others) the models *SIREN*, 18th CENTURY LONG BOAT and ENGLISH PINNACE. One of his current projects is a 1/48 scale cross section of the 1776 British SWAN class Sloop of War *PEGASUS*, based on the design of **David Antscherl**.

The model will be a fully framed cross section, consisting of 19 frames. The frame construction is based on a unique design which allows construction without any exotic jigs or complicated procedures. It will be simple enough that **Bill Grolz** can finish it during one year at the Fair, but allows for scratch building of details. More information can be seen at Model Ship World website at:

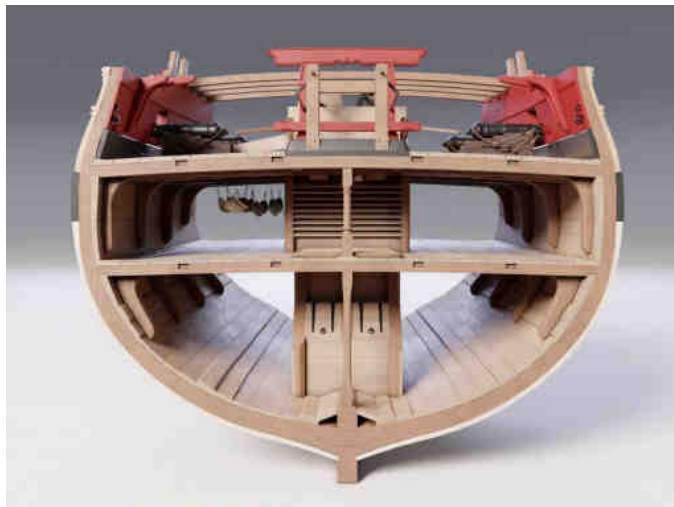
<https://modelshipworld.com/index.php?/topic/17734-pegasus-cross-section-1776-148-by-chuck-swan-class-sloop/>

You can access the site even if you are not an MSW member. I don't know if you can view photos or not. It is easy and free to join. There is no obligation and you become an associate member of the Nautical Research Guild. If you are already a member of the NRG, it's twice as free. MSW is a treasure trove of information and is highly recommended for anybody who is building ship models or who likes to watch other people build ship models."



Chuck Passaro's PEGASUS Cross-Section:
Structural Framing.

Computer rendering by Denis
Rakeric

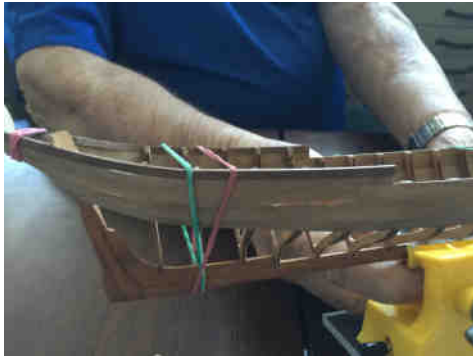


Chuck Passaro's PEGASUS Cross-Section:
Interior.

Computer rendering by Denis
Rakeric

Community Build Report

Build Log Keeper Steve McGivern reported 4 members attended the February 3 meeting in the *Berkeley* research library including in addition to **Steve; Jon Sanford, James Pitt, and Doug Yumoto**. Though the meeting was short it was helpful with each builder discussing progress and challenges with their Royal Barge Circa 1700 build. The general topic



centered around the difficulties and challenges with planking, especially in the stern area with its compound bends. Jon talked about bending the planks and the merits of using water and a hairdryer. Jon related that a bit of a soak in water will soften the Cherrywood grain easing the bending. The use of a

hairdryer will speed the drying process but the wood will hold its shape even with a slower drying period. Jon reported during the **Show and Tell** period of the February meeting that he continues to make progress with his model and has completed the first section of the instructions which Chuck Passaro mentions as close to the half way point in the build. Here to the right Jon shows his Royal Barge to the meeting.



Show and Tell

S.S. Portland

by **Tom Hairston** (seen here telling about his build, Robert Wills sits behind the case)

BlueJacket Ship Crafters

Scale 1/8 inch = 1 foot

The Ship: The steamship *Portland* was launched in October of 1889 for the Portland Steam Packet Company of Portland, Maine, and her maiden voyage was early in 1890. This particular ship was one of many in the steam transportation trade. It was an ocean going side-wheeler with a walking-beam type of steam engine. Maine merchants had only two choices of transportation to Boston in those days, either an all day trip in a stage, or three and a half relatively comfortable hours aboard a steamer, with the possibility of a return trip on the same day.



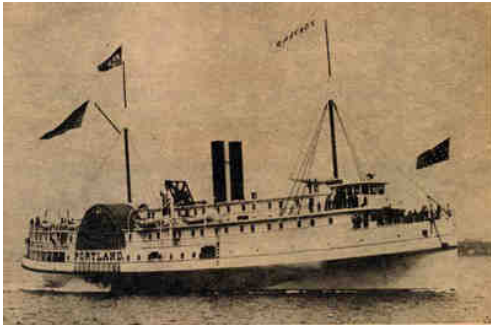
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S.S. Portland by Tom Hairston continued:

The Portland was 291 feet in length, 41 feet, 3 inches in beam, and drew 15 feet of depth. It had four decks for passengers, including the kitchen and dining room located beneath the freight deck. It was reported as having handsome furnishings of the finest materials.

The *Portland* served for nine years between Portland and Boston without any remarkable events.

Wikileaks reports she is best known as the namesake of the infamous Portland Gale of 1898, a massive blizzard that struck coastal New England, claiming the lives of over 400 people and more than 150 vessels.



This was probably the last picture made of the steamship Portland, which sank Nov. 27, 1898, with all hands. Lee Jones wasn't around at this time, but while covering the busy waterfront he was allowed to copy this rare photograph. The photograph is not reversed—the name over the sidewheels is correct, but the ensign has letters sewn on one side only.

On the night of November 26, 1898, she sailed from Boston and was caught in the worst gale and snow storm in recent history. Captain Blanchard had run north and nearly cleared the Massachusetts border when the storm was so bad that he turned south to go back to Boston. Later he had turned north again and attempted to ride out the storm by facing into the north east wind. She went down with all hands and passengers, approximately 180 people, near Cape Ann, Massachusetts. The shipwreck site was first located in 1989 by John Fish and Arnold Carr of American Underwater Search and Survey.

The find was confirmed in 2002 by a National Oceanic and

Atmospheric Administration expedition that used ROV's to photograph the wreck. The wreck was added to the National Register of Historic Places in 2005.

The Model (displayed here without its case): The kit was made by the Bluejacket Ship Crafters in Searsport,

Maine. The hull is solid basswood and the other parts are made from basswood and plywood, with brass or cast Britannia fittings for its metal parts. The scale is 1/8th inch of the model equals one foot of the ship. It took just over three months to build, and was completed in September of 2017. Tom reports the case is glass and poplar wood like he has made for most of his models. Tom used his table saw to make the case and he ordered custom size glass from his local



glass shop. Tom tells us the reason for the job was that my granddaughter, who was living in Portland, Oregon at the time, asked him to make a model of the *Portland* that she had looked into online. (There was a *Portland* operating out of Portland, Oregon that was carried over Willamette Falls on St Patrick's Day 1857 resulting in the death of her captain as he attempted to save her.) This was the only kit available, so Tom thinks he may have disappointed his granddaughter a little.

Phantom New York Pilot Boat

by Alex Roel

Model Expo solid hull kit No. MS2027

Scale 1:96 1/8 in = 1 foot

Alex reported further progress on his *Phantom* as he works on deck planking. He reports after thinning the bulwarks he separated the kit supplied scribed sheet planking into separate planks and completed the aft deck and waterways. Last month, after fairing the hull and beginning the process to cover the hull, Alex said developing patience and resisting the urge to rush the work was his greatest challenge. He reports his satisfaction with his progress so far!



U.S. Brig *Syren* (1803)

by Royce Privett

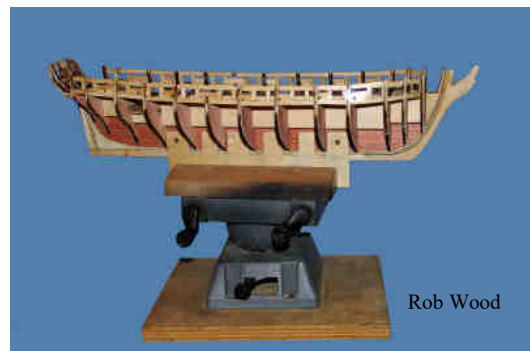
Plank-on-bulkhead kit by Model Shipways

Scale - 1:64, 3/16 inch = 1 foot

Royce reports his progress on the Chuck Passaro designed kit of USS *Syren*, a 240-ton brig built by Nathaniel Hutton at Philadelphia in 1803 he first presented in October 2017. On September 27th, *Syren* set sail for Gibraltar under the command of Lt. Charles Stewart. She cruised the Mediterranean during the spring and summer of 1804 and participated in the attacks on Tripoli. She remained there for almost a year after the peace treaty with Tripoli was signed on June 10, 1805. Departing Gibraltar on May 28 of 1806, she reached the Washington Navy Yard in early August, where she was laid up until her reactivation in 1807. During her service in the War of 1812, she was captured by the 74-gun HMS *Medway* after an 11-hour chase.

November 2017 meeting photo

Royce reports his basswood, beech, and walnut model has completed wales painted black and the painted yellow ochre hull has been planked from the wales to the cap rail to match the original ship. The hull from the wales to the keel has also been planked with the wales to the water line painted black and the waterline to the keel copper plated. After adding the transom, Royce report it partially painted. The Guild looks forward to seeing Royce's next progress report!



Rob Wood

Derfflinger

by Don Dressel

Kit by Art Am. Fuesta, Scratch built masting and rigging**Scale - 1:52**

Don reports with Dave Yotter looking on, at the end of the 17th Century, the fluyt *Derfflinger* belonged to the fleet of Kurfverstentum Brandenburg. In the "Triangle Trade" of that time she transported rum and other stuffs to Africa, bought slaves and sailed for the West Indies, then exchanged the slaves for sugar for the return journey to Europe. Later, she and other Brandenburg ships were used in the war of the Spanish Succession.



Don made a similar presentation to the SMA as reported in the SMA Newsletter. Excerpted from the January newsletter "Don brought in his continuing efforts on masting and rigging the *Derfflinger*. He has managed to complete the fore, main and mizzen masts and is now in the process of installing the shrouds, stays and other associated standing rigging. The time consuming process of "ratteling down" or installing the ratlines has been started. There was some difficulty in the rigging process since the instructions for rigging were "lost", so a little research had to be completed to determine the size of line, number of shrouds, stay procedure, belaying pin locations, etc. Several books were consulted including Historic Ship Models by Wolfram zu Mondfeld, The Ships of Abel Tasman by Ab Hoving and Cor Emke as well as the book 17th Century Dutch Merchant Ships by Ab Hoving. Don also mentioned that he is using a new procedure while installing his ratlines with clove hitches – he is using Elmer's washable clear glue on the clove hitches once they are tied to make sure they do not move and/or untie, although that is not supposed to happen with clove hitches. He also uses a large needle to help "rove" the clove hitches through the shrouds in order to try and get a little "curve" between each shroud with the ratline. There is nothing worse than a shroud being pulled out of alignment while installing the ratlines. Don does not think that perfectly straight ratlines look good either." Then in the February newsletter "Progress has been made on the standing rigging and all the ratlines have been completed on the shrouds. The lower stays have been



Don at February SMA Meeting

installed on the fore, main and mizzen masts. There is a lot more standing rigging that has to be completed including the topmast stay, the crowsfeet on fore and main and the backstays. One of the difficulties with this rigging is the lack of detailed plans, but fortunately there is a lot of information available on Dutch fluyt ships. The just released book 17th century Dutch Merchant Ships by A. J. Hoving as well as the plans and book The Ships of Abel Tasman by Hoving give all the information needed to complete the masting and rigging process of a Dutch fluyt. Don is using linen line in his "stash" that has been collected over the years to complete the rigging along with Lloyd Warner blocks as well as blocks and

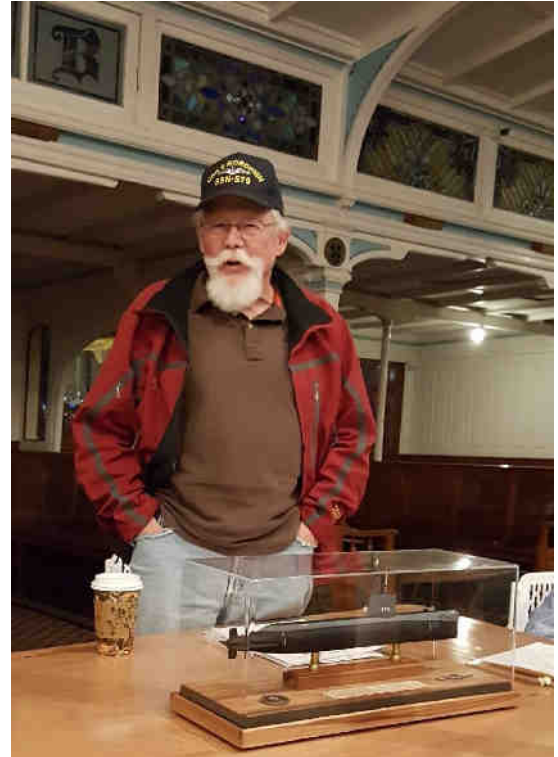
rigging details from the old Art Am Fuesta kit, which is no longer in production. The closest kit model currently available of this ship is by Euromodel. The plans provided in both books listed above supply all the information required to scratch build a Dutch fluyt if desired."

USS *Swordfish* (SSN-579)

Displayed by Dave Yotter

Scale 1:96

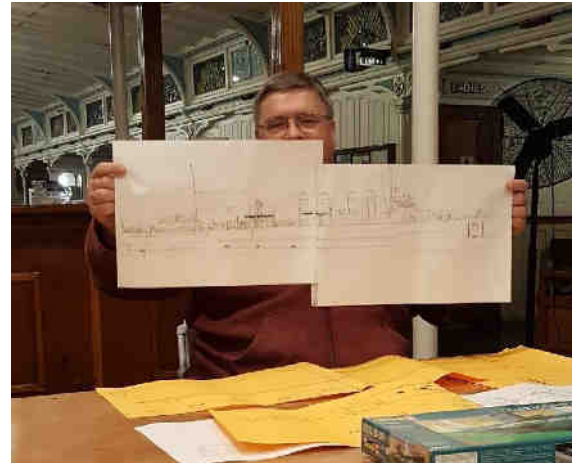
Dave shared his *Swordfish* with the SMA at their January meeting and the following is an excerpt from the February SMA Newsletter. “Your reporter (Dave) brought back his 1:96 scale model of the boat he served aboard in the mid ‘60s, USS *Swordfish* (SSN-579). *Swordfish*, the second of a class of four Skate-class submarines, was the fourth nuclear submarine built and commissioned in the United States Navy. The contract to build her was awarded to the Portsmouth Naval Shipyard of Kittery, Maine on 18 July 1955, and her keel was laid down on 25 January 1956. She was launched on 27 August 1957 sponsored by Mrs. Eugene C. Riders and commissioned on 15 September 1958 with Commander Shannon D. Cramer, Jr., in command. **Mel Douyette** of Cold War Submarines made this model of *Swordfish* in 1:192 scale. The hull is made of cast resin with aluminum masts. As delivered, the model was mounted on a red oak base with a routed edge treatment, a name plate and a pair of dolphins (the insignia worn by qualified submarine sailors) to complete the display. I wanted to upgrade the model’s presentation and add a cover to keep off the dust and grime. I didn’t have a big slab of hardwood in my lumber stash that I wanted to use as a base for the case. Instead, I used two pieces of ½ inch Baltic birch plywood, one of the top of the other with the top one cut in from the edge of the bottom by the width of the acrylic cover thickness. I had some red gun strip wood obtained from **Lloyd Warner** some time back. Four pieces were placed around the outside of the bottom of the base and then the top was “planked” with more strips of the red gum. The acrylic cover was custom made by our friends of PlexiDisplays www.PlexiDisplays.com in La Habra. The nameplate was done for me at Tustin Awards (closer to home for me than PlexiDisplays) <https://tustinawards.com/> laser etched on birch ply. I added hull dimensions and commissioning information to the info that Mel had placed on the original nameplate. To finish off the presentation I added the dolphins and a *Swordfish* challenge coin to the base. The only challenge with the whole process was that the red gum planking was relatively thin and the glue moisture caused some warping of the individual planks. Some of the red gum will be available at the next meeting for members. Lloyd only asks that proceeds from purchase go to the club.” Dave tells a wonderful story of submarine service!



USS Roper (DD-147) and German U-Boat U-85 Diorama by Karl Zingheim Scale 1:125



Karl tells us his project is actually a page from **Jon Sanford's** family history. Jon's dad, an Annapolis graduate, served aboard the *USS Roper*, a four-stacker that achieved the first US U-Boat kill of WW II. The drawings were to show how large the Roper model would be since her



target, U-85, will dictate the scale of the scene. This is because the U-85 was a Type VIIB, and Revell has a very good kit of a Type VIIB in 1/125 scale. Wikipedia offers "USS *Roper* (DD-147) was a *Wickes*-class

destroyer in the United States Navy. *Roper's* keel was laid down on 19 March 1918, launched on 17 August 1918, and commissioned on 15 February 1919. Through the prewar Neutrality Patrol period, *Roper* ranged the waters off the East and Gulf Coasts. (After providing convoy escort duty) to Londonderry Port, she returned to the Norfolk area for patrol and escort duty. A month later, on the night of 13/14 April, she made contact with a surfaced U-boat off the coast of North Carolina. The ensuing chase ended with the sinking by artillery fire of German submarine *U-85* (1941), a unit of the 7th U-boat Flotilla. Thus the *Roper* sank the first German submarine by US Naval forces in WWII.

According to the after action report, the attack occurred after midnight local time after *Roper* closed to identify an unknown contact (*U-85*) and was narrowly missed by a torpedo prior to opening fire. The commanding officer delayed rescue operations until daybreak and after the arrival of air support from a PBY Catalina and an airship due to concern of an attack by a second U-Boat. No charges were filed against the crew of *Roper* and 29 sailors of *U-85* were buried with military honors at Hampton National Cemetery. *Roper's* commanding officer, Lieutenant Commander Hamilton W. Howe, received the Navy Cross for the engagement of the submarine and retired in 1956 with the rank of Rear Admiral."

Jon tells a story related to him by his Dad after his Dad had watched a TV game show, "I've Got a Secret". His Dad told him while serving on the *Roper* and on patrol in the Caribbean region they conducted a rescue mission of survivors of a torpedoed European refugee boat. Among the rescued survivors was a woman who gave birth to a baby during the rescue. At the end of the game show Jon's Dad was watching, the central character reveals that he (she? Jon does not recall if the contestant was a man or a woman!) was born on a lifeboat during a rescue from being torpedoed by a U-Boat. His (Her?) name was Roper and Jon's Dad exclaimed to Jon, we rescued him (or her)!

USS *Roper's* anchor on display outside building 5 on the MIT campus





Think about

(Bob Kyle making progress on a project in the Museum Model Shop and representing the Guild to Maritime Museum visitors!)

Helping Out
(James Pitt and Jon Sanford working on a restoration and sharing a tale!)



In the Museum Model Shop!

(and while there, maybe give a young visitor the gift of modeling in the form of one of our paper ships”!)

Fair Sign-UP Sheet 2018

San Diego Ship Modellers Guild

Booth Hours: M-F 1100 - 1800 -- Weekend: 1000 - 1800

Fair set up May 13, 12:30 pm

Fair Take Down July 7, 10:00 am

Fair set up	Fair take down
1	1
2	2
3	3
4	4
5	5

Friday June 1	Saturday June 2
Fair Opens at 1600	1
	2
	3
Friday June 8	Saturday June 9

Sunday June 3	Monday June 4	Tuesday June 5	Wednesday June 6	Thursday June 7	Friday June 8	Saturday June 9
1	Exhibits Closed	Exhibits Closed	1	1	1	1
2	Exhibits Closed	Exhibits Closed	2	2	2	2
3	Exhibits Closed	Exhibits Closed	3	Demo	3	3
Sunday June 10	Monday June 11	Tuesday June 12	Wednesday June 13	Thursday June 14	Friday June 15	Saturday June 16
1	Exhibits Closed	Exhibits Closed	1	1	1	1
2	Exhibits Closed	Exhibits Closed	2	2	2	2
3	Exhibits Closed	Exhibits Closed	3	Demo	3	3
Sunday June 17	Monday June 18	Tuesday June 19	Wednesday June 20	Thursday June 21	Friday June 22	Saturday June 23
1	Exhibits Closed	Exhibits Closed	1	1	1	1
2	Exhibits Closed	Exhibits Closed	2	2	2	2
3	Exhibits Closed	Exhibits Closed	3	Demo	3	3
Sunday June 24	Monday June 25	Tuesday June 26	Wednesday June 27	Thursday June 28	Friday June 29	Saturday June 30
1	Exhibits Closed	Exhibits Closed	1	1	1	1
2	Exhibits Closed	Exhibits Closed	2	2	2	2
3	Exhibits Closed	Exhibits Closed	3	Demo	3	3
Sunday July 1	Monday July 2	Tuesday July 3	Wednesday July 4			
1	1	1	1			
2	2	2	2			
3	3	3	Demo			

WEDNESDAYS ARE DEMO NIGHTS
 June 6th, 13th, 20th, 27th
 July 4th
 1800-2000