



The Bilge Pump

The Official Log of the Northwest R/C Ship Modelers
www.shipmodelers.com

Events Look Ahead

JANUARY

7 Meeting by Zoom 7 pm

FEBRUARY

4 Meeting by Zoom 7 pm

MARCH

4 Meeting by Zoom 7 pm

More events information and updates on calendar page later in newsletter and, **Check our website for latest updates at www.shipmodelers.com**



- **Read about other member's projects starting on Page 4.**
- **2021 member dues are due during January. Annual dues are \$30. More details on Page 12**

From the Wheelhouse



In keeping with the norm of 2020 our traditional Christmas dinner on the evening of our monthly meeting was CANCELLED. Why should this event be any different than most of our other activities this year? Instead of a fun filled evening socializing and reviewing of the year's events and a great meal at the Old Spaghetti Factory, we had a ZOOM meeting. While the Zoom meetings are good, like many

events of the year it left us feeling a little let down with our model boating activities for the year and the limited social interactions with friends that share this common interest. Clearly there is a brightening light at the end of the tunnel, as the vaccines are currently being distributed. The light gets even brighter when seniors have a high priority in receiving the vaccine and that benefits most of our members!!! Finally, something good from being OLD!

So much for the past, we should look forward to a brighter future. With that in mind our most important business item of our last meeting was to "elect" our new leader, Robert Osmond and confirm our officers for 2021. Our president, Robert Osmond is one of our longer-term members and has an unsurpassed passion for model boating. He brings a lot of modeling expertise and was our club president in 2014.

This changing of the guard will be great for the club. Our club needs a fresh emergence from the COVID environment with new ideas that will attract new members and will form the basis for the future of the club and generations of modelers. Robert brings these qualities and will serve our club well. I wish him a lot of success and longevity as our new president. As I said in the meeting, I do not plan on going

anywhere and commit to remain an active club member and be available to assist in any way that I can to help ensure the continuing and success of our fine group of modelers and good friends well into the future.

Our officer group has agreed to continue in their 2020 rolls to help in keeping things on track during the next year. **Bryan Morse** continues at keeping track of our membership, **Paul Williams** will continue doing an excellent job producing our newsletter, and **Dave White** will keeping track of our financial matters. **Ron Bray** will continue as Vice President. All of these guys have served multiple years in these positions and we owe them a great thank you for their efforts and commitment to our club.

Surely, we can resume our festivities at a dinner next December, I encourage our new administration to make a reservation for December 2nd 2021 so we can once again have our traditional fun filled evening of fun and frivolity in the new year. If plans change, it can be changed without cost.

And finally, I would like to thank everyone in the club for their great support during this past year as well as the previous 8 years that I have served as President. Without each of your efforts and support of our club activities and events we would not have had the successful years that we enjoyed.

I want to wish each of you and your families a wonderful and safe

Christmas Season and a Very Happy New Year.

Mel Suelzle



December 3rd 2020 MEETING Minutes

By Ronald Bray



Our captain, **Mel Suelzle**, conducted the meeting via zoom since we are still unable to have our meeting as a group because of our governor's order to limit in-person congregations to help stop the spread of the corona virus. However, fifteen members participated successfully.

Show and tell began with **Bob Jacobsen** showing us the cool new electronics he is now selling as the sole agent in the US. The items are made in Germany and have a multitude of sounds, dual ESCs, and an incredible small speaker. The device is able to control numerous lights as well. He also showed a model truck and his six- foot destroyer he purchased from China. One can order the electronic devices from Bob at Hobbyconcepts.net or from Beier Electronics.

Robert Osmond discussed acquiring 1/16 inch cherry and maple plywood, from Amazon, which he plans to utilize in building the deck houses for his Danish clinker- built fishing boat which he started many years ago when living in Dallas. **Mel** told us that he thinks the best plywood can be obtained from Midwest and **Bob Jacobsen** has never been disappointed in ordering from Balsa USA. He ordered from this source when he owned Galaxy Hobbies.

Nat Brace gave us an update on the use of resin 3D printers. He purchased an Anycubic model from E-Bay for around \$750 and has been using it to create small parts for his tug build. He was able to give us a view of the device and his workshop with the aid of his cell phone camera.

Robert Osmond showed how he makes rudders by grinding the rudder shaft flat on two sides and then sandwiching styrene pieces using CA glue. (See more later in newsletter)

Following show and tell some business and BS was discussed. At the moment, we are solvent but will still have expenses in the future. So, it is mandatory that we continue paying our membership \$30 dues for next year. Checks can be mailed to **Bryan Morse**, but must not be made out in his name. The check should be made out to NW RC Modelers. (Dues amount and mailing address on page 12.)

Officers elected for the coming year will remain the same except for the presiden. **Robert Osmond** has volunteered to take up the baton and be our leader for the next year.

- 2021 President -- Robert Osmond
- 2021 Vice President – Ron Bray
- 2021 Treasurer – Dave White
- 2021 Membership Database – Bryan Morse

Randy Flodquist commented on an article in the New Yorker on custom wood working which generated some discussion.

Fred Row has been operating his boat on Silver Lake, stating that kids were bugging him to run his boats, and that the dock space left a little to desire.

The meeting concluded at 2015, but not before **Mel** was given recognition for his many years of leadership and contributions to the good of the club and for his expert advice and building skills. His humor will be sorrily missed this year since we are not able to have our Christmas dinner at the Spaghetti Factory restaurant due to the pandemic. Even though he has abdicated his presidency, I know he will always be deeply involved in the activities and future of the club.

Happy Holidays and good health to all.

Boat Building News from Members:

Below are articles covering project updates, news, and lake adventures that members are sharing.

1950's ITO Model Boat Restoration

By Allan Wing

In about 1952 a friend of the family who was a merchant seaman gave my twin brother and I a model boat he had got in Japan. They were made by ITO. This company made these boats from just after the war in 1945 to about 1954. The earlier ones were marked made in "Occupied Japan" but the one I have was made after the requirement to include the label was lifted.

The boat is just over 13 inches in length. It is powered by a TMY motor and runs using 2 D cell batteries. We played with these boats often when we were young and after a while the paint started peeling rather badly. My Dad helped me repaint the bottom. When I went to run it again I found that with the extra weight of the paint the boat was too low in the water. With the size of the boat and 2 D cell flashlight batteries it was right at the waterline to start with. I put it on the shelf vowing to someday sand it down and repaint it. Well some 45 years later I found it and started the repaint job.

I first sanded much of the old paint off, removed the fittings on the hull except the rudder and propeller shaft mounts. I also have found 2 D size rechargeable batteries that are lighter than regular alkaline batteries. To date I have painted the hull. I put in the batteries and gave it a try and nothing worked. I found that the wiring was attached to the battery holders by merely putting the wire under the wire under the battery holder and mounting the holder in place. After some 70 years the wire had oxidized to where it no longer made good contact. I removed the off-on switch to straighten it out and make a better connection and found real short and somewhat corroded screws holding it in place. I decided to fix the other connections by cleaning the wire right next to the battery holder and then solder the wire to the holder since the holder is made of brass. It is now working. I need to reattach the hardware and it is ready to run.

I choose to keep the TMY motor because it is rather unique. I also decided not to try and add any radio control because the rudder does not have a post that goes inside the hull and the boat probably could not carry the additional weight. Mostly I wanted to keep the boat as original as possible.



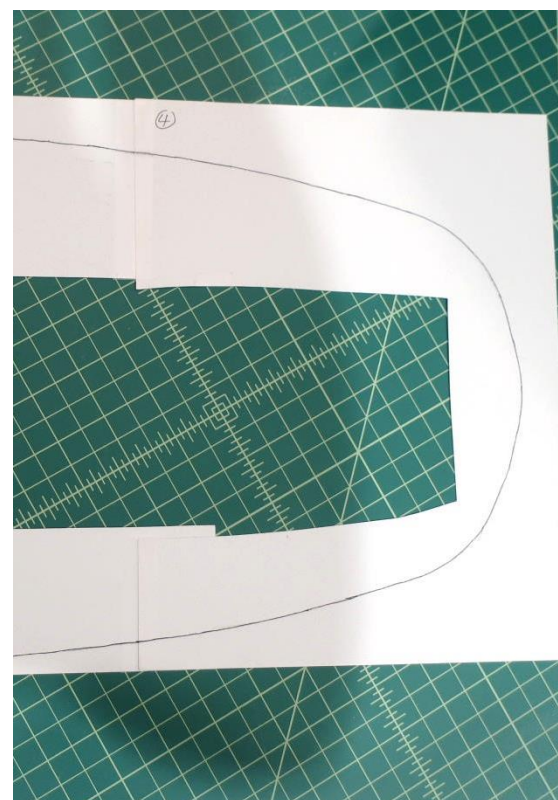
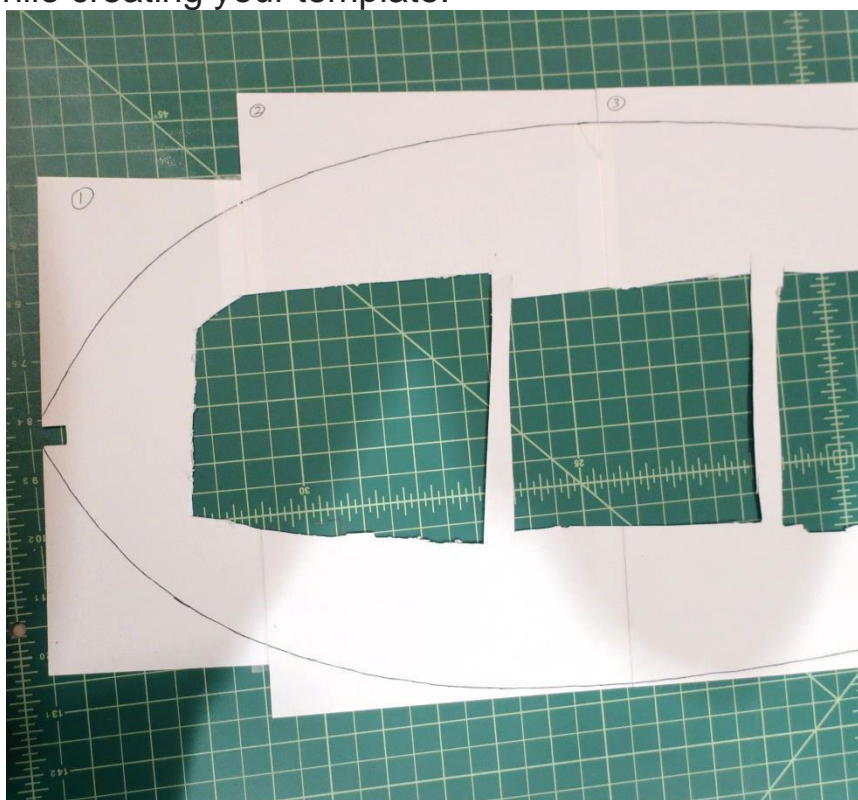
Bulwark Cap or Gunwale Article

By Robert Osmond

Here is an article on how I get the shape and dimensions to make a bulwark cap or gunwale for my model boats.

The bulwark cap or gunwale is the flat or rounded piece that goes on the top edge of the bulwark which is the side of a ship above the upper deck or hull side.

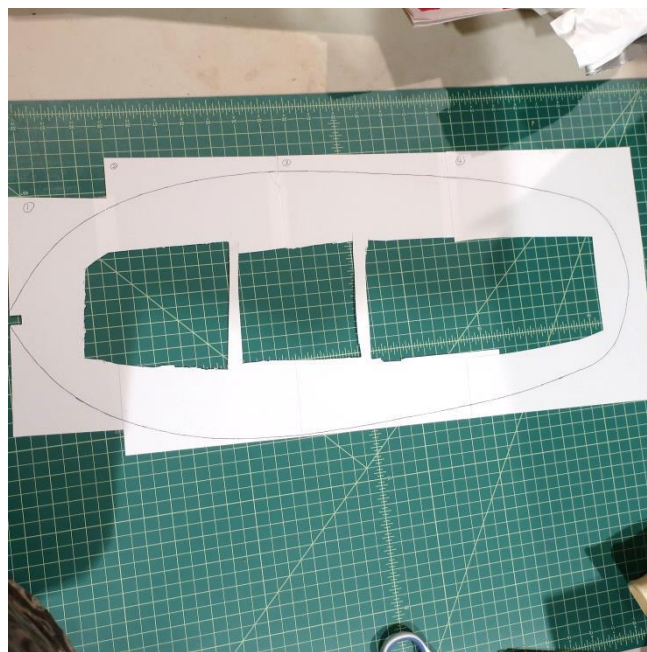
So that I do not have to make trial and error cuts out of cardboard, I used as many pieces of card stock (the thick paper used for business cards) which is available from office supplies. This cardstock is stiffer and harder than manila folders or poster board and has a finer finish for drawing, which means you can more easily hold it in place while creating your template.



You need to make your piece of cardstock large enough to cover all of any continuous bulwark you want to create a cap or gunwale for. In the photos of this process you can see that I have put 4 pieces of cardstock together and cut holes where there would be interference from the combs that I already had in place. In this case I could lay my

hull upside down on the cardstock on a firm bed pillow. I press down on the hull till the cardstock will not push away from the hull when I run my pencil around the edge to get my outline. If you cannot lay the hull upside down because you have some part of the boat already installed that would not allow this method, you can hold the cardstock down with one hand while running the pencil around the hull, drawing on the underside of the stock. If you have to do it this way, try to key the cardstock to something on the hull so it does not shift, since this way you cannot see what you are drawing.

Next, decide how wide you want the bulwark cap or gunwale to be. You might want the cap to be “proud” stick outside of the bulwark. To do this you could use the same technique you would for adding width on the inside of the cap. You could freehand that or use a drafting compass to follow the line you want with the metal point and draw with the pencil. A more accurate way is to use a small piece of wood a couple of inches long and about an 1 - 1/2 inch thick, with this you can space a cut off pencil end away from the block out so the pencil point will draw a bulwark cap the width you desire. Just space it off with a piece of wood and superglue them together being sure the pencil will not pivot. With that you can move the block along the outside of the line and create the inner line for the cap.



Then copy by tracing onto 3M Transparency Film for Copiers (**SUPER GLUE DOES NOT STICK TO THIS**) so you can cut out a template for the pieces you need. Then cut out your wood pieces. Usually you will have to put several pieces of wood together to get the complete bulwark cap, due to the shape of the hull. Then lay full sheets of 3M over the cardstock and glue your wood together while checking your alignment.



***IMPORTANT TO KEEP IN MIND that you made your tracing of the bulwark cap/gunwale with the boat upside down, so unless your hull is perfectly symmetrical you might have an issue unless you keep this in mind for your cap construction. If you have an accurate photo copier you could copy your drawing onto the 3M Transparency Film for Copiers and scotch tape them together. Just mark them so you stay aware whether you are making the cap right side up or upside down.**

Rudder Making

By Robert Osmond

Here is my article on making a rudder for an RC boat. I described and showed some of this in the Dec. Zoom meeting. Here is my way to make a rudder for my model boats.

Making a Rudder:

I first sketch what size and shape I am going to want to end up with. I do this by cutting some cardstock or manila folder to the shape I want. To decide the shape I want and where the rudder post will be located in the rudder, I put the prop and shaft in the boat's stuffing box (this should be in its final location and secured in place). Then I hold the cardstock up against the bottom of the stern, marking the center of the rudder post, against the end of the propeller hub, and with a ruler resting against the keel make some pencil marks that will give me references for the max size of that area to work with.

Next, I cut out a piece of folder that just fits that area, so I can decide the following:

1) How much room do I want between the end of the propeller and the front edge of the rudder.

Leave enough that if the shaft can move in and out with forward and reverse on the motor so the prop will not make contact with the rudder.

2) Decide how much space to allow from the bottom of the hull above the propeller to ensure that as the rudder pivots and will not make contact with the hull when turned right and left.

3) Decide if the boat is going to have a "balanced rudder". This is where some of the rudder is in front of the rudder post. Some boats, like my Clyde Puffer, do not have any rudder in front of the post. These types are not "balanced". Most single screw boats have about 1/3 of the width in front of the post. After you have decided these questions you can go forward with making the rudder.

4) Decide if you are going to have a skeg extension running back from the bottom of the boat that the rudder post will extend down through. (This is good to brace the rudder and guide the rudder over debris or the lake bottom). If you are going to do this you need to lay out how you will attach it to the bottom of the keel. It needs to be removable, in case you have to remove the rudder to repair damage. After you have your rudder size and shape, you will need some 1mm styrene sheet for the rudder itself. Evergreen sells 1mm white styrene plastic small sheets.

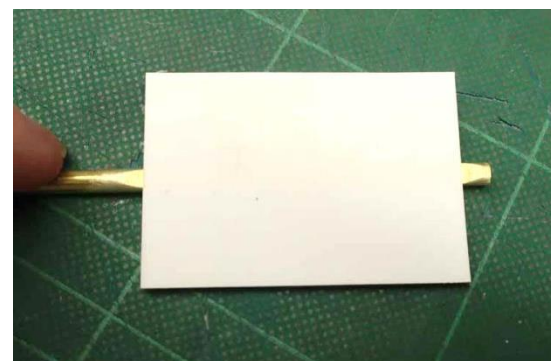
I usually use a 5/32" brass rod for the rudder post. This works well with a Du-Bro #55 steering arm assembly (see photo). Next I lay the card stock rudder next to the rod and mark the rod above and below about 1/4" its planned location on the post if you are going to have the rudder penetrate the skeg extension. If you are not going to have the skeg extension, just mark the rod so that the flat area will end inside the bottom edge of the rudder. Then I clasp the rod with my needle



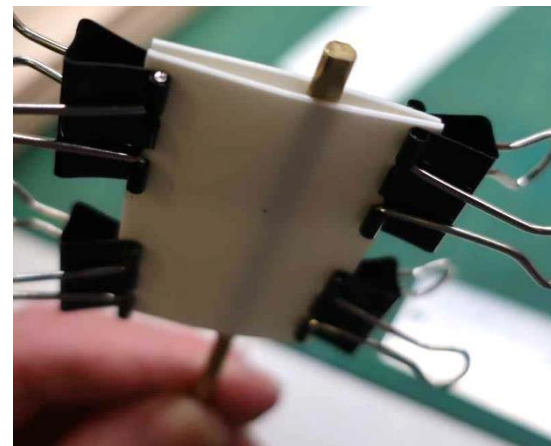
nose vice grips and take it to the bench disc sander. (The vice grips help you to hold the rod and when resting on the vice grips side on their side on the table in front of the disc.) This helps you keep the area you are grinding on the two sides of the rod parallel which is very important. Lightly draw the bar back and forth along the spinning disc, keeping the two sides even in the amount of material removed and where they taper from round to flat. You want them to be the same on both sides and the same thickness from the top and bottom if you are going to have the rudder post penetrate the skeg extension. Keep in mind that the rod will get hot so have some water to dip it in from time to time. See the photos showing the flats on the sides. With the two flats looking like the photos you can clean the rod. Scuff up the rounded sides between the flat sides so the glue will hold.



Now locate the amount of rudder you want in front of the post and make marks on both plastic pieces for the rudder. Shape your rudder pieces to be close to the final shape. Clean and scuff up the inside faces of your two pieces to give the solvent and superglue tooth to make the rudder structure more solid. You will be sanding down the edges later but you want the front and rear edges of the rudders to match. Holding the plastic pieces against the flats make sure that you can press the front and rear edges together before the next step. Now use a little superglue to attach the two pieces of plastic to the flat sides.



After the glue has set, use office style paper clips shown in the photos to hold the edges of the rudder together.

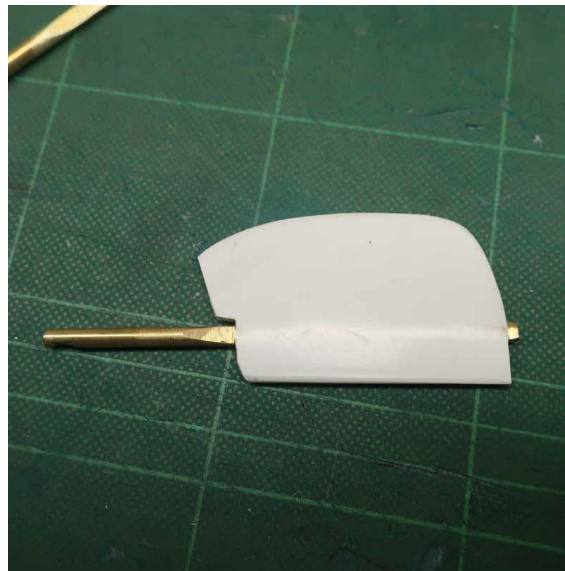
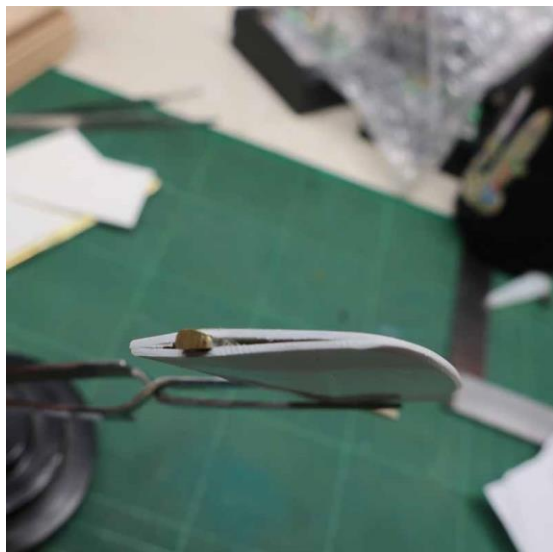


Use some styrene solvent dripped down the inside of the front and rear edges of the rudder. Do this a little at a time so you do not soften the sides of the rudder or dissolve the back inner sides of the rudder more than to just weld the two pieces together.

Once you are done with this let it set for several hours so the solvent can evaporate and the plastic joint to harden.

Next use thick super glue and let it run down into the void at the front and back of the rudder, trying to keep it off the brass rod so you do not have to remove glue later. After several applications spaced out with enough time for each super glue application to get hard you will eventually have filled up the voids and are done with the rudder.





More Informaiton about Nat Brace's 3D Resin Printer

By Nat Brace

In the Zoom meeting, I talked about my 3D resin printer that I bought from Ebay. It is an ANYCUBIC Photon Mono X Photocuring SLA 3D Printer (size 192x120x245mm with 4K LCD). Cost is now \$699 so quite reasonable. I also bought a wash station that will clean the resin off the print and cure it. Here are the links:

Printer website:

<https://www.ebay.com/itm/In-Stock-ANYCUBIC-Photon-Mono-X-Photocuring-SLA-3D-Printer-192x120x245mm-4K-LCD/284041065300?hash=item42222ab354:g:w~MAAOSw3olftixl>

Wash station website:

https://www.ebay.com/itm/ANYCUBIC-Wash-Cure-2-0-Washing-Curing-for-LCD-3D-Printer-MARS-PHOTON-MONO-X-US/393031069456?_trkparms=aid%3D1110006%26algo%3DHOMESPLICE.SIM%26ao%3D1%26asc%3D20200520130048%26meid%3Dd505932419b9434e88c5f88c10d1dfee%26pid%3D100005%26rk%3D6%26rkt%3D12%26mehot%3Dpf%26sd%3D283801799756%26itm%3D393031069456%26pmt%3D1%26noa%3D0%26pg%3D2047675%26algv%3DSimplAMLv5PairwiseWebWithDarwoV3BBEV2b%26brand%3DANYCUBIC&_trksid=p2047675.c100005.m1851

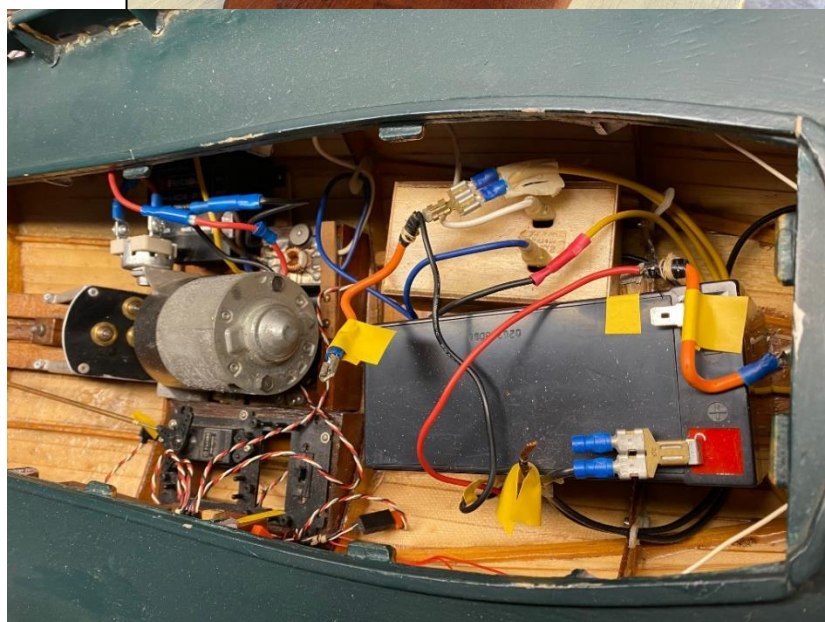
I also have found a GREAT facebook group that supports this model printer: <https://www.facebook.com/groups/594649514547371>

-- Nat



OPPORTUNITIES -- "SHELLY FOSS" FOR SALE

We have been contacted by a person offering a Shelly Foss built from a Dumas kit around 1980. The model seems to be well constructed but with colors of a local tug in the Southern California area. From the photo it seems seaworthy and suffers only from rather ancient running gear and electronics. The model is located in the Port Townsend area and is being offered for about \$300. If you are interested, contact Jim Bowman, Port Townsend. Phone 510 606-0188



2020 NWRCSM Events Calendar (12/16/2020)**JANUARY**

2 Meeting at The Facility* 7 pm
 4 Fun Float at Seattle Yacht Club 9 am
 25/26 NW Hobby Expo Monroe 9am-6pm

FEBRUARY

6 Meeting at The Facility* 7 pm
 8 Fun Float at Seattle Yacht Club 9 am

MARCH

5 Meeting at The Facility* 7 pm
 7 Fun Float at Seattle Yacht Club 9 am

APRIL

~~2 Meeting at The Facility* CANCELLED~~
~~4 Fun Float - Bellevue Pond CANCELLED~~
~~Springer Model Event CANCELLED~~
~~29 Seattle Yacht Club Fun Float CANCELLED~~

MAY

~~7 Meeting at The Facility* CANCELLED~~
~~16 Fun Float - Bellevue Downtown Park CANCELLED~~
~~21 Coffee Fun Float - Bellevue Park CANCELLED~~

JUNE

~~4 Meeting at The Facility* CANCELLED~~
~~6 NW RC Regatta - Bellevue Pond CANCELLED~~
~~6 Fun Float - Bellevue Downtown Park CANCELLED~~
~~18 Coffee Fun Float - Bellevue Park CANCELLED~~

JULY

~~9 Meeting at The Facility* CANCELLED~~
~~11 Fun Float - Bellevue Downtown Park CANCELLED~~
~~16 Coffee Fun Float - Bellevue Pond CANCELLED~~
~~31 Twilight Fun Float - Bellevue Pond CANCELLED~~

AUGUST

~~6 Meeting at The Facility CANCELLED~~
~~8 Fun Float - Bellevue Downtown Pond CANCELLED~~
~~8 Portland Regatta - Tualatin, OR CANCELLED~~
~~15 Northwest Tug Regatta - Bellevue Pond CANCELLED~~
~~16 BMM Regatta - Burnaby B.C. CANCELLED~~

SEPTEMBER

3 Meeting by Zoom 7 pm
~~5 Fun Float - Bellevue Downtown Park CANCELLED~~
~~12 NW RC Regatta - Bellevue Pond CANCELLED~~
~~26 Fishermen's Memorial - Ballard CANCELLED~~

OCTOBER

1 Meeting by Zoom 7 pm
~~3 Fun Float - Bellevue Downtown Park CANCELLED~~

NOVEMBER

5 Meeting by Zoom 7 pm
~~7 Fun Float - Seattle Yacht Club CANCELLED~~

DECEMBER

3 Meeting by Zoom 7 pm
~~3 Holiday Dinner - Lynnwood CANCELLED~~

The Facility

Our meeting location is part of the Everett Community College buildings (Monroe Hall) located at:

6606 196th Street SW.
 Lynnwood, WA. 98036





More information on this facility can be found at <https://facilitymade.com/>



2021 member dues are due during January. Annual dues are \$30.
 If you have not paid yet, please forward your dues payment to

Bryan Morse
 703 N 105th St., Apt 7,
 Seattle WA, 98133

Make checks payable to: NW R/C Ship Modelers

2020 Club Officers		
	President: Mel Suelzle	Webmaster: Allan Wing
	Vice President: Ron Bray	Skagit R/C Meeting Contact: Keith Schermerhorn
	Treasurer: Dave White	Newsletter Editor: Paul Williams
	Membership Database: Bryan Morse	

Club Meeting Location

The Facility – Makerspace

6606 196th Street SW
 Lynnwood, WA. 98036