



# The Bilge Pump

The Official Log of the Northwest R/C Ship Modelers  
[www.shipmodelers.com](http://www.shipmodelers.com)

April 2022

## Look Ahead Events

### MAY

4	Seattle Yacht Club Opening Day Fun Float	9 to 3
5	Meeting by Zoom	7 pm
7	Fun Float at Bellevue	9 am
21	Night Float at Bellevue	7 pm

### JUNE

2	Meeting by Zoom	7 pm
4	<b>NWRCSM Model Boat Regatta</b>	

### JULY

7	Meeting by Zoom	7 pm
9	Fun Float at Bellevue	9 am

### AUGUST

4	Meeting by Zoom	7 pm
6	NWRCSM's Tug Boat Regatta	
27 <sup>th</sup>	Night Float at Bellevue	Sunset

More events information and updates on calendar page later in newsletter and, **Check our website for latest updates at [www.shipmodelers.com](http://www.shipmodelers.com)**



Read more about members' projects.

## From the Bridge

Robert Osmond

Hello fellow model boaters.

We had a very good Hobby Expo, thanks to the great turnout of members and their boats. All the display tables were full. There were also, many boats on the water all day, each day.



Thanks for the help setting up the pond, manning the booth and taking the pond down.

The Hobby Expo will be in April from now on, which makes it easier on the public as well as our members. The Swap meet was smaller than last swap meet, but there was a lot of swap material just 5 months ago at the last Hobby Expo. It takes more time than that to decide "you can really get by without that item", so take it to a swap meet. The weather did try to show us it was January, by covering the highway from Monroe to Woodinville with an inch of hail, right after we packed up and were driving home.

We had good attendance at our April Fun Float today, eleven skippers and great weather. It was rescheduled since Hobby Expo was on our normal float day.

Our next event will be at the Seattle Yacht Club Wednesday May 4th at 9:00 AM to show our boats while the yacht club members are getting their boats ready for their May 7th Opening of Boating Season parade and party. Bring your boats out and run them for people that know and appreciate boats. There will be tents, tables, chairs and a low dock to

run boats from. You can also go into the yacht club and purchase lunch.

Thank you all for your help and support.

PS: Citing the names of ships or boats in writing, I was curious as to how the names of ships should be written. What I found out was that when citing the names of ships, or boats, the actual name of the ship should be italicized, such as *Titanic*, *Enterprise*, but not other part of a name such as SS, USS, US, RNS, those should be in regular text.

*Fair winds and following seas,  
Robert Osmond*

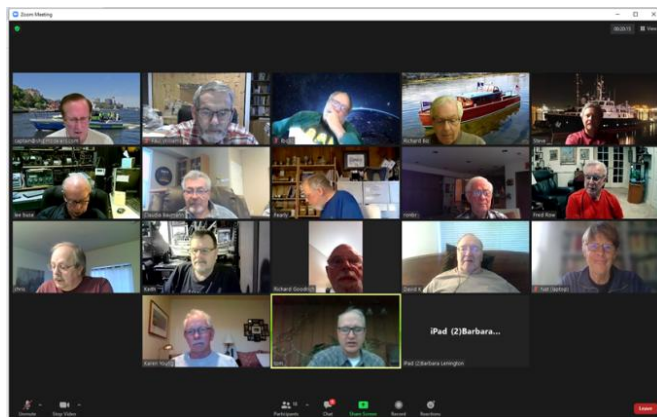
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## Meeting Minutes – March 3

By Ron “Doc” Bray

Photos by Robert Osmond and Paul Williams.

Our zoom meeting had 20 participants and was well directed by our commodore, **Robert Osmond**. There were no new members or guests. Announcements were made including the upcoming Hobby Expo which will have a pond present, thanks to **Kevin Klocke** and the club’s provision of new tarps.



The April fun float will be on April 16 at the Bellevue pond. The Seattle Yacht Club has invited us to come run our boats on Wednesday May 4<sup>th</sup> at the Seattle Yacht club. This is always a lot of fun with the club members coming by and admiring our boats. They set up tables, tents and chairs. *You can use their dock carts so you do not need a wagon.*



**Steve Sunich** suggested that we consider a night float at the Seattle Yacht club sometime in the future.

We discussed our upcoming events this summer.

- Model Boat Regatta will be on June 4<sup>th</sup> .
- Tug Boat Regatta will be on August 6<sup>th</sup> .
- Night floats on May 21 and August 20<sup>th</sup> at the Bellevue pond.

Show and tell started with **Keith Schermerhorn** showing how he is placing blacked out windows in the house of his new boat and a small screw driver kit which can be purchased at Harbor Freight.



**Steve McCool** introduced his new baby daughter to our group.

**Steve Sunich** is building a model of Dennis Washington's 120 foot yacht and has fabricated a 60 inch fiberglass hull in which he has installed bow thrusters. *(see Steve progress report in his article below -- Editor)*



**Tom Edward** discussed the use of primer surface and sanding blocks for making hulls smoother before painting. These can be purchased at Wesco Auto Paint stores.





Robert Osmond commented on his build of the Graupner pilot boat which he is going to make into a Stockholm Sweden police boat. It came from Graupner with jet drives, servos and the deck attached to the hull. It has been discontinued.



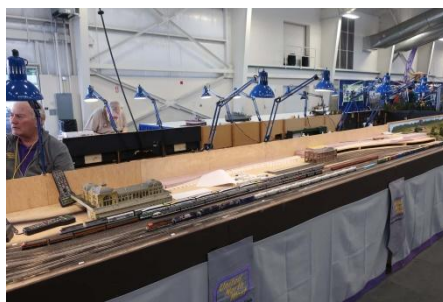
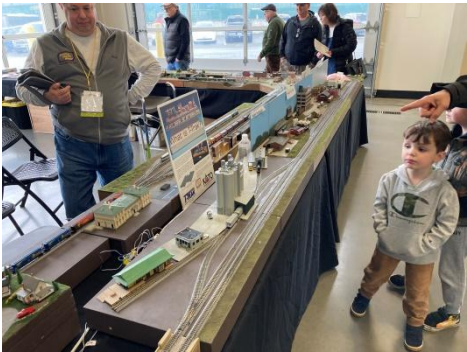
The meeting was concluded at 1945.



## NW Model Hobby Expo April 9 & 10

By Robert Wickham  
Photos by Robert Osmond and Paul Williams

For the first time Hobby Expo was held in the month of April and the attendance on Saturday (April 9, 2022) was brisk with lots of attendance in our building. This was a shift from the past when Football Season competed with Hobby Expo. The multiple active and interactive demonstrations in our building were loud and engaging. The robotic combat destruction machines were at it throughout the day with loud crashes, bangs and crowd cheers. We were next to the Model Car Drifter Circuit and they were at it all day as well. The more reserved Model Railroaders had their huge layouts per usual. The Car Racing/Drifting Guys also had a heavy presence at the show. It seems the Hobby is going in that direction. This show was very short on Vendors. I think the high fuel prices along with a wait-and-see attitude regarding the new April Hobby Expo date had a lot to do with it.



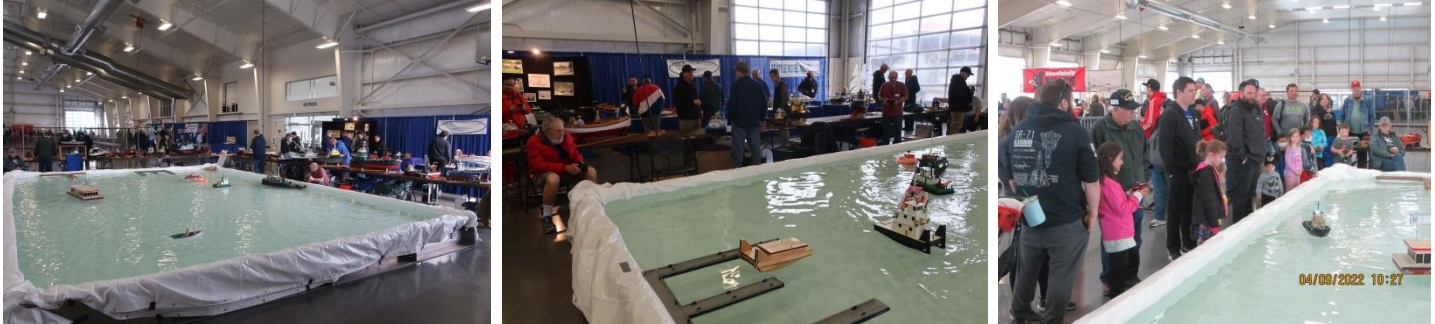




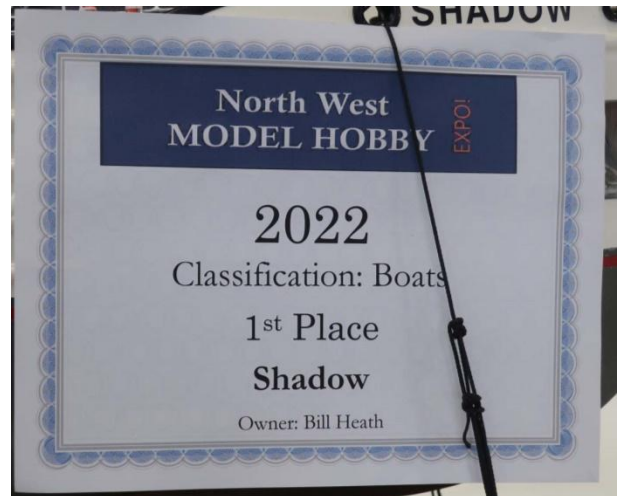
Now onto our side of the event. The cost of fuel didn't seem to deter the R/C Boaters much at all. We had 6 tables plus one inside our Booth and they were all full of boats. Most were Club Member's exhibits. Robert Osmond was doing his best full-court press to convert the non-members to members. We will see how that works out.



The centerpiece of our display was Kevin Klocke's pool which he provided at mostly his own expense. Our club picked up the tab for the new liners which worked very well. No mopping needed. Kevin also had several nice boats to run and display: two large tugs (the "Lindy" and the "Sandy J") and several smaller ones. Thanks again to Mr. Klocke and his wife Tina for all their hard work in making the pool work as well as it did.



Congrats to Bill and Judy Heath for winning First Place in the Judging Portion of this event with their big salvage tug "Shadow". This is Bill's second big build and it came out great as usual.





Roger Lyons made a brief appearance on Sunday. It was nice of him to stop by.



Dr. Ron Bray was absent from the event for medical reasons, but is rumored to be healing well and should be up-and-around soon.

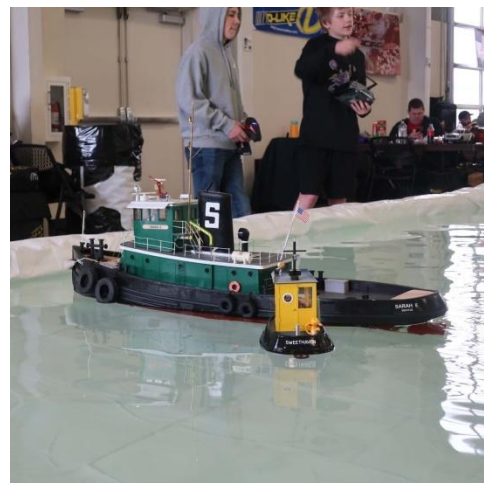
Keith Schermerhorn had his exquisite purse seiner "*Misty Moon*" with him. Wow! What a mechanical presence with the rigging and hydraulics. Keith had a prototype crane barge and his big tug "*Pacific Titan*" as well.



Keven Nolet was in attendance with his two large tugs (the "*Sarah E*" and the "*SE-2*"). The *SE-2* was a first launch event and it worked very well. Nice work Keven!







Bryan Morse came on Sunday with his ready-to-run tug "South Hampton" and a yacht tug "Lord Nelson" in the construction phase.

Paul Williams helped run the booth both days and brought some 3D printed boat parts for display. Paul and Bryan are into 3D filament printers and Nate Brace and Chris Merrell are into resin 3D printers. Thanks Paul for all your help with the booth.

Bob Spiger came by to say "Hello" and run a boat for a while.

Morrie Robinson showed up on Sunday. I hadn't seen Morrie for several years. He assisted Kevin K. with his boats and was a great help with the pond take-down. Good to see you Morrie.

Richard Goodrich was present with his crane springer which he is developing / modifying as he goes. Richard also had his ready-to-run tugboat "South Hampton" with him.



Richard Bizier came with two boats: a nicely varnished runabout and his stern wheeler which worked well except for backing up and shipping water through the arm slots. I am sure he will resolve that issue.



Chris Merrell has a very early model hull that his Dad started way back when. It was carved out of a solid block of wood. Nice start. Hope Chris takes it over and finishes this hull someday.

Dave Green and his son made an appearance on Saturday. Dave looked good. I wish he could have brought his big medium endurance CG Cutter. Nice build that one is.

Dave Zanzig with his fleet, row boat too.





Chuck Young and his springer "LLY" were present too.

Frederick Row had his varnished runabout, a springer and a Russian aircraft carrier. The carrier actually worked better than the real one.



Nate Brace stopped by on Saturday. I guess the canyon winds were absent that day.

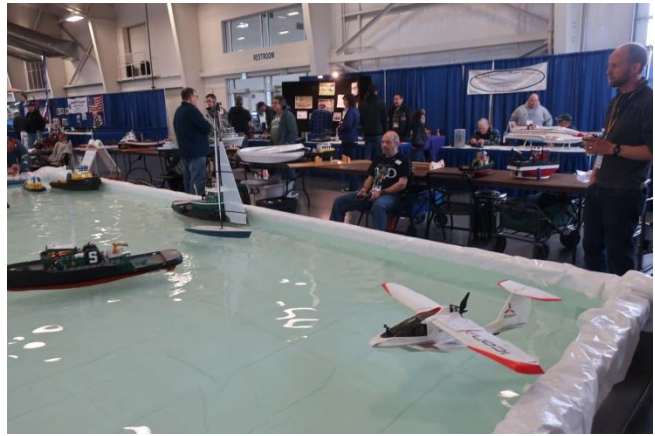
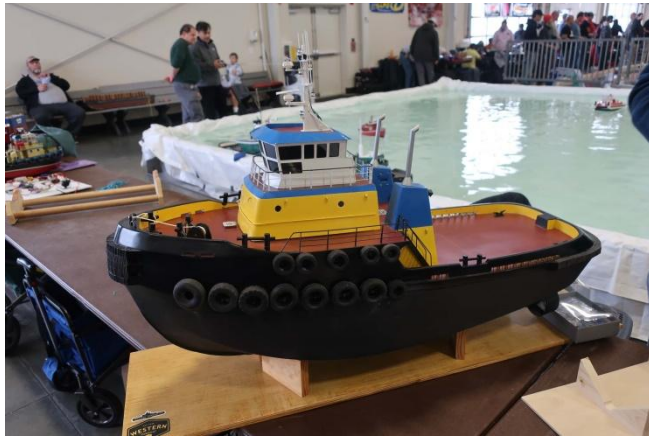


A special “Thanks” to Robert Osmond for all his efforts in this endeavor. Robert’s backdrop made the booth along with his computer display of NWRCSM Club History and Events. Robert had both his large steam launches with him, but he was not allowed to run them due to Fire Codes. He also had the “Surfer Guy” and several other smaller craft and one boat crewed by Minions for kids to run.

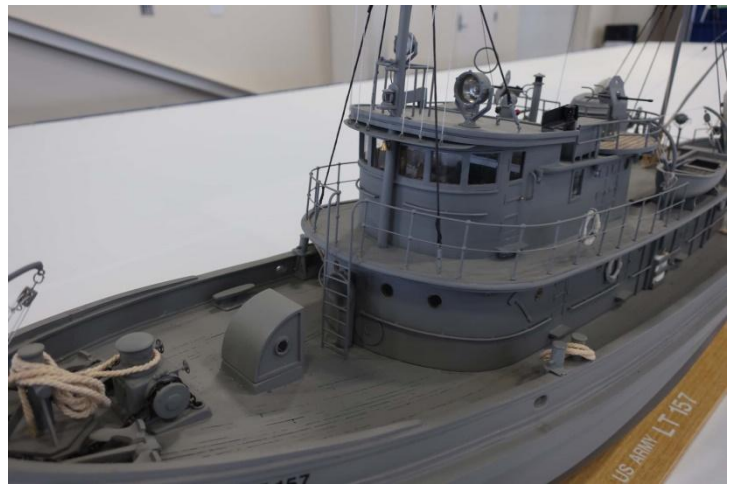


I apologize in advance to anyone I missed or didn't mention. I am sure there may be a few over the course of 2 busy days. The Club “Thank you” stands to all the club members who made this event a success. A special “Thanks” for those that were still around for the takedown! Until next April.

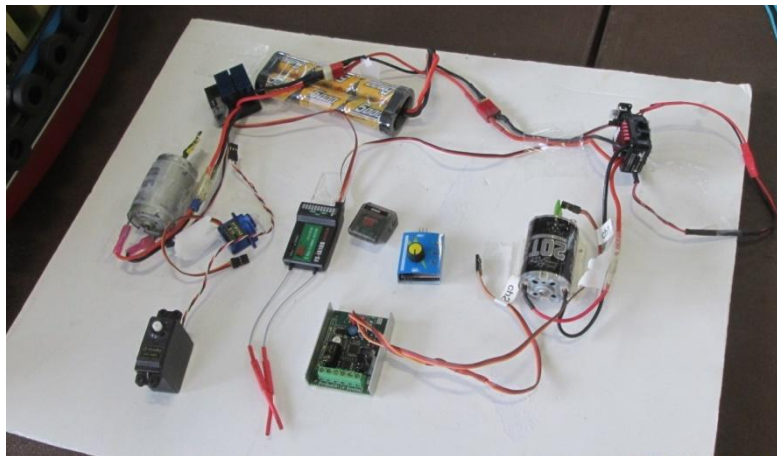












## Fun Float – April 16

Eleven gallant skippers in their cold weather togs, had a splendid day running boats. Sunshine on their backs, no wind, little duck poop and good comradery.



**Fred Row and Richard Bizier** did some formation running after much directing by the intrepid photographer (me). Their varnished boats showed very well in the clear morning sunlight.



**David Zanzig** was busy practicing running his tug with his barge on the hip, totally different than his day job. Just kidding since he does this for a living every day with full size tugs and barges. He also had his striking *orange noodle boat*, hoping for an adult or child that would want to try their hand at model boating. No takers today.

**Bryan Morse and Lee Buse** were comparing overpowered *Lord Nelson* yacht/tugs could indeed plane and possibly fly with a little more power; both could lift the bow off of the water when running. Sorry no photos of this but eye witness can attest.

**Steve Sunich** was running his trawler/yacht *Solace*, which is an exact copy of his real yacht. Steve left before the group photo was taken.





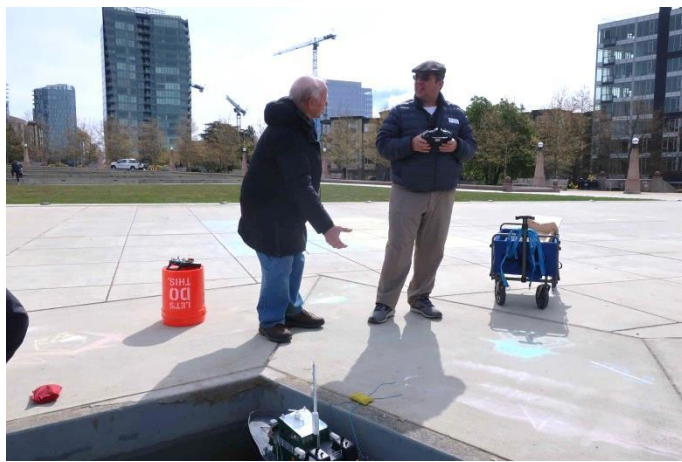
**Kevin Nolet** was running his *Sarah E* and *Sarah E-2*, two large attractive tugs, sometimes pulling each other around the pond.

**Lou Magnabusco** and **Chris Merrill** were comparing notes on their Horizon Hobby Harbor Tugs *Lou* is has been changing props, motors and batteries, dialing in his boats performance. These tugs come ready to run and are quite good right out of the box.

**David White** was running his Canadian log tug/push boat looking to some beached logs he could pull off and sell.

**David Green** was studying how long it took for his tug to run a tug course so he can continue to work on his course for the upcoming August 6th Northwest RC Ship Modelers Tugboat completion.





I was running my *Pacific*, my surfer on his *lost... Mayhem* surfboard, and my *Toe Boat* with its motely Minion Crew, which are constantly in search of Bananas. There was no rain, only sun





## Steve Sunich's New Yacht Project

Well, here I go again. Starting on another project. Since I finished a model of my 1:1 I thought I would do another yacht.

A while back, I ran into a 1960's yacht at the Seattle Yacht Club. I loved the Naval Architecture so I thought, OK, I can build it. Here is a broadside I took of it to get started.



Unfortunately, I have no plans and no idea what is below the waterline. However, there were a ton of pictures on Marine Traffic.com and I was able to find some general dimensional data. I was forced to do some scaling and try to make a plan to create a table of offsets that might work. Another problem was, what scale to use? Since she is 120 feet long, a 1/32 scale makes the model 45". With a shallow draft narrow boat, I figured this might end up being only 15 pounds displacement. With that displacement, I was not able to add much stuff, like motors, batteries, etc. (I have the weight of a model). It also seemed small, by my standards, since I have models ranging from 36" to 51" and up to 75 pounds. It would also not handle a little bumpy water very well, having a shallow draft. I then started thinking that 1/24 might bump the size up a little. Well, not a little, but now she would end up at 60"! I decided on the 60" version that might put its displacement at around 40 pounds. Now I was getting somewhere!

I started a plan and table of offsets and laid a keel.



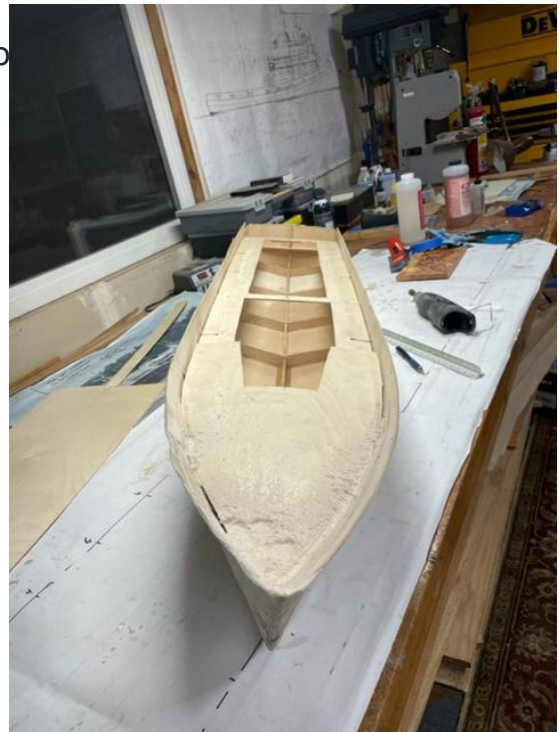
I moved on to cutting frames and planking the hull with plywood and fiberglass. As always, this was a challenge since plywood won't bend correctly to make the proper hull shape. So, it is a combination of plywood and chopped up plank strips.



I am a little worried about paint on the hull. The boat has a few every little flaw. But, with a little work I should get it right. A last-minute thought was that since she is so long and narrow; maneuverability will be an issue. I assume that the 1:1 has a bow thruster, so I am adding one of those also.

Enjoy the photos and hopefully I'll have a rough sea trial this summer.

More updates to come.





## Picking a motor and Propeller Combination for a Tug.

By Allan Wing

After doing much research and testing I have come up with recommended RPM for various propellers. I did testing with 4 different boats with propellers ranging from 1 1/2 inch to 3 1/2 inches. I also used both 2S and 3S LIPO batteries to provide different Propeller RPMs.

The recommended RPMs are given in Table 1 below. The table has 3 RPMs columns. The first is a RPM speed that will give something close to scale speed. The second column is what you might want to use if you want your boat to run like most of the overpowered boats in the club. The third is what you might want to try and get if you are building a Springer to play polo.

Prop Size inches	Scale Performance RPM	Faster Performance RPM	Too much RPM
1	6000	9000	12000
1.25	4800	7200	9600
1.5	4000	6000	8000
1.75	3429	5143	6857
2	3000	4500	6000
2.25	2667	4000	5333
2.5	2400	3600	4800
2.75	2182	3273	4364
3	2000	3000	4000
3.25	1846	2769	3692
3.5	1714	2571	3429
3.75	1600	2400	3200
4	1500	2250	3000

Table 1

These propeller speeds are the same for either Brushed or Brushless motors.

With Brushed motors it is not easy to tell what speed the motor would have at your operating voltage. For 500 sized motors (one of the most popular size motors we use) you can get some indication if you can find the number of turns. For a Speed 600 motor that is about a 15 turn motor and runs 18,000 RPM at 6 volts. Many of the generic 500 sized motors are about this speed. For most of our applications you would want to choose a 30 to 80 turn motor if you can find one. Be aware that some car motors have as few as 5 to 7 turns and run just way too fast for our applications. If you choose one of these faster motors and run it with a 1 1/2 inch prop it will slow down and draw too much current and overheat. For larger motors you should try and find specifications. The motor in my Tug Boat was rated 3,200 RPM at 12 volts. In general, when looking at motor specifications more, turns or more poles will run slower.

When looking for Brushless motors it is easier in that most are rated in KV or RPMs per volt so a 1000 KV motor will have an unloaded speed of 6000 RPM at 6 volts. Both brushed and brushless motors can be geared down to match the speed of the motor to the desired speed of the propeller.

## 2022 NWRCSM Events Calendar

The rest of the calendar will be determined as the Year progresses and our activities increase and return to normal. (Updated 4/15/2022)

### JANUARY

6	Meeting by Zoom	7 pm
8	Fun Float at Seattle Yacht Club (SYC)	9 am

### FEBRUARY

3	Meeting by Zoom	7 pm
5	Fun Float at SYC	9 am

### MARCH

3	Meeting by Zoom	7 pm
5	Fun Float at Bellevue Downtown Pond	9 am

### APRIL

7	Meeting by Zoom	7 pm
9	NW Model Hobby Expo, Monroe	9 am to 6 pm
10	NW Model Hobby Expo, Monroe	9 am to 3 pm

(Check their website for updates WWW.NWMHE.COM )

**16 *\*\*\*Fun Float at Bellevue Downtown Pond \*\*\* Unusual date 9 am***

### MAY

4	Seattle Yacht Club Opening Day Fun Float	9 to 3
5	Meeting by Zoom	7 pm
7	Fun Float at Bellevue Downtown Pond	9 am
21	Night Float	sunset

### JUNE

2	Meeting by Zoom	7 pm
4	<u>NWRCSM's Model Boat Regatta,</u>	? am

### JULY

7	Meeting by Zoom	7 pm
9	Fun Float at Bellevue Downtown Pond	9 am

### AUGUST

4	Meeting by Zoom	7 pm
6	<u>NWRCSM's Tug Boat Regatta</u>	? am
27 <sup>th</sup>	Night Float at Bellevue Downtown Pond	Sunset Only boats with lights can run after dark.

### SEPTEMBER

1	Meeting by Zoom	7 pm
10	Fun Float at Bellevue Downtown Pond	9 am
20	Night Float at Bellevue Downtown Pond	7 to 10 pm. Only boats with lights can run after dark.

### OCTOBER

6	Meeting by Zoom	7 pm
8	Fun Float at Bellevue Downtown Pond	9 am

### NOVEMBER





3	Meeting by Zoom	7 pm
5	Fun Float at SYC	9 am <i>Unless Huskys have a home game. TBD</i>
??	Pacific Marine Expo at Lumen Field Event Center in Seattle, WA	

### DECEMBER

1	Annual Holiday Dinner Meeting	???
3?	Fun Float at SYC	9 am





NWRCSM 2022 Club Officers		
	President: Robert Osmond	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	

***Currently we have resumed having only Zoom club meetings. (since October 2021)***

***When we resume in person meetings, they will be at "The Facility" location.***

**The Facility – Makerspace  
6606 196<sup>th</sup> Street SW  
Lynnwood, WA. 98036**