

EDINA MODEL YACHT CLUB

SAIL & SCALE NEWSLETTER

MAY 2005

VOLUME 14, NUMBER 5

2005 PARADE OF BOATS

By John Bishop



Our 14th annual Parade of Model Boats will be held on Sunday, June 12th. The show will start off

with the setup process beginning at 9:00 AM leading to an "opening" of the doors to the general public at 11:00 AM. The show will then continue on a set schedule until its conclusion at 4:00 PM. All of the details concerning this event can be read in this edition of the newsletter in the following pages.

It's hard to believe that this is already our 14th show, but time passes quickly and this event has become deeply

rooted in EMYC tradition. Since we have developed a pattern of mild success with the event, we will try to

follow the basic premise of the show-gather and

interact with fellow club members,

introduce our hobby-related interests to the public,

and display and run boats during the day. It's a simple

formula that many have come to look forward to each year.

As always, input from any club member is welcomed and new

ideas are generally good ones so feel free to voice them.

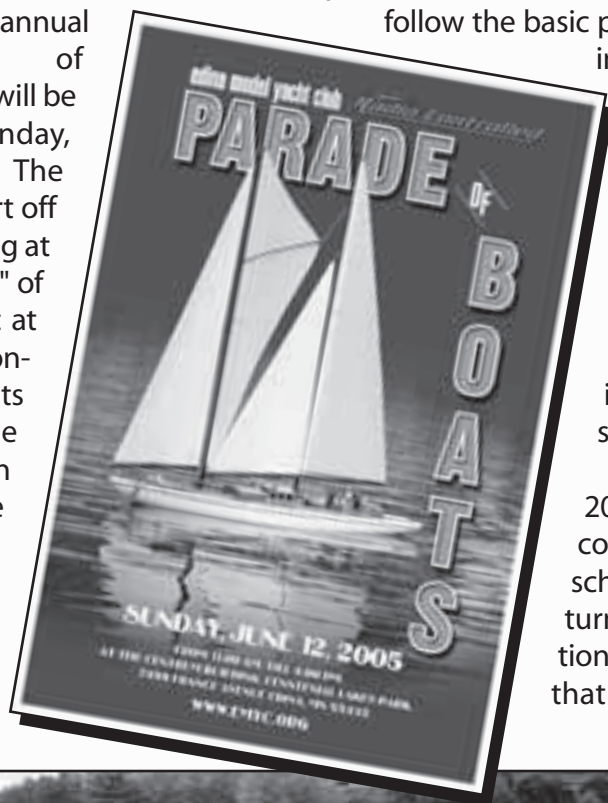
We are hoping to have 150 to 200 boats on display and with

cooperative weather, we'll run a schedule that will allow for a high

turnout of on-water demonstrations. As usual, please keep in mind

that with a forecast of marginal

2005 Parade continues on 7



SCHEDULE OF EVENTS:

- Open Boating every Tuesday and Thursday 5:30 - 9:00 p.m. and every Sunday 4:30 - 9:00 p.m. -
- May 1, Sun9:00am-3:00pmAntique Toy, Doll & Advertising Show
- May 17, Tues7:00-9:00 pmMembership Meeting
- June 12, Sun9:00am-4:00pmParade of Boats

COMMODORE'S CORNER



By Paul Olsen

The 17th of May will be the last meeting before the Parade of Boats, so please try to attend. We

need everyone's input.

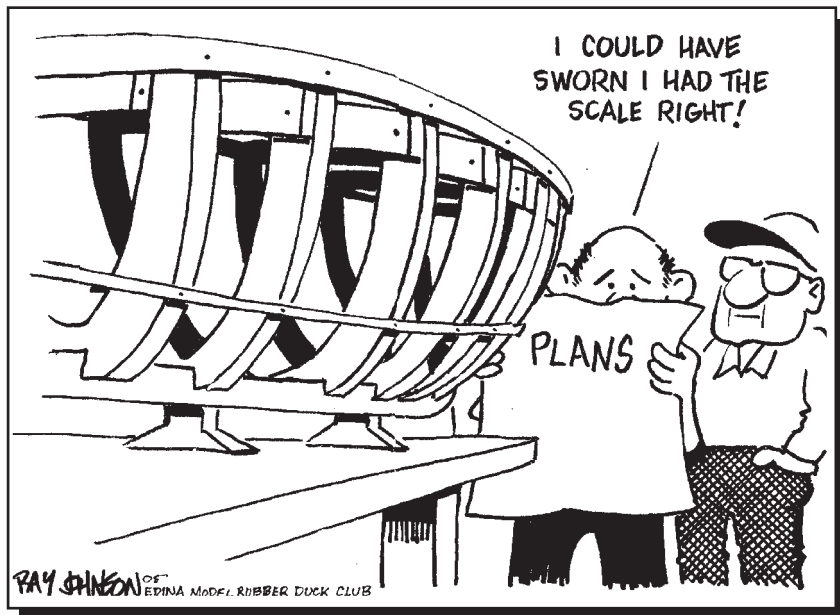
Many thanks to Tony Johnson and Dave Bros for their expertise and willingness to help others at the April 30 Spring Tune-Up. I know the boats worked on will now perform very well.

Make sure your boats are ready for the Parade of Boats on June 12th and a repeat performance for the Spina Bifida people on June 28.

At the May meeting we will be covering Air Brushing with Mike Ross sharing what he knows about the subject.

See you at the May meeting.

—Paul Olsen



FAST ELECTRICS

The Fast Electric Racing Group is now meeting and racing on the south pond Thursday nights around 6:00pm just come on down and watch or join in the fun. Call Dan Proulx for more information at: 763-551-4953

RESERVE YOUR FREQUENCY NUMBER

This year, in an effort to fill the pond with boats at the Parade of Boats Fred Ferris has come up with the idea of reserving frequency numbers well ahead of the event. This idea should allow us to maximize the number of boats on the water at any given time.

The running schedule will be the same as in years past, which would be as follows:

- 12:00pm Open Boating**
- 12:30pm Tugboats and Work Boats**
- 1:00pm Sailboats**
- 1:30pm Fast Electric Boats**
- 2:00pm Military Boats**
- 2:30pm Scale Boats**
- 3:00pm Tugboats and Work Boats**
- 3:30pm Open Boating**

Please reserve your frequency by calling Fred Ferris at 952-882-8744.

2005 MEMBERSHIP

• Our Current Total Club Membership:

135 paid members.

EMYC New Members

Bryan Duerfeldt
Michele Hartman
Walt Hartman
John Kenny
Neil Younggren
Andy Zbikowski

– Welcome to the Club –

AT THE MEMBERSHIP MEETING

APRIL 19, 2005



By Jim Smith

Commodore, Paul Olsen called the meeting to order at 7:00 PM

Commodore asked new members and guests to introduce themselves. John Kenney introduced himself. He became aware of the club at Hub Hobby.

Commodore mentioned that members were needed to coordinate refreshments for the Parade. Donuts, pop, coffee, etc. must be purchased. Kaletta, Johnson, L, and Kirihara volunteered.

John Bishop is managing the show with the city. He is in contact with Stacey in Tom Shirley's office. The plan is for the same table set-up as last year. Centrum doors should be open by 8:00AM for early birds. Official set-up will commence at 9:00AM. John has also been in contact with Barb, the McDonalds manager. McDonalds will supply members with meal coupons again this year. Barb told John that they must triple staff the restaurant during our show to accommodate the crowd.



Commodore Paul Olsen presides at the April meeting.

John reported that the Centrum Building has already been reserved for the Parade of Boats in 2006 (June 11) and 2007 (June 10). Mark your calendars!

Dave Bros asked for projects underway for the Builder's Table at the Parade. He wants examples of fiberglass, foam, plank on frame and other construction methods for display. Please call him if you think your project will fill a niche.

Terry Spletstoeszer will operate a burning- smoking houseboat this year. It seems that his burning PT

boat is no longer up to the task.

George Pfeifer has donated his last "center section" of the sinking freighter so we will have at least one more episode of the "crying little kid!"



Kirk Brust showing his new six foot Edmund Fitzgerald.

The Spina Bifida show is shaping up for June 28th. The organization expects in the neighborhood of 500 people to attend our static show and operating session. Please make an effort to attend, even though it comes right on the heels of the Parade of Boats.

There was a short discussion of the "Best-in-Show" award that was mentioned at the last meeting. The general opinion was to forget about it... at least, for this year.

Alex Raupp responded to a request for a Parade announcer. He will handle the microphone.

Dale Johnson requested members to deliver Parade color posters and flyers to area hobby shops.



Meeting April 19, 2005, 44 members in attendance.

Most local shops were covered by volunteers.

Jim Smith asked if there was going to be a "for sale" table this year. The answer was "yes!" Smith and Spletstoeszer will handle those duties.

Fred Ferris requested that we have a good supply of the schedule of events printed up for the Parade. Those sheets are very popular with visitors.

Dale Johnson requested help with the monthly newsletter. Although he would like to see improvements in the letter, he stated that he does not have the time to perform all the functions necessary to do that alone. Dale would like to have editors for sail, scale, fast electric, builder's corner, etc., who could assemble articles and forward them to him...ready to print. Dale would like two, three or more members with a "strong respect for deadlines" to give him a hand. Think about it. Give him a call.

Commodore had Dave Bros read a letter that the club received from the Bob Speltz Land 'O Lakes organization. In place of the Red Wing and Minnetonka boat shows, BSLOL will have their show at the Bayport Marina on the St Croix River on August 13th and 14th. They would like EMYC to attend. The consensus of the members at the meeting was that we should accept. More information will be forthcoming.

Terry Mackey stated that official sail racing on the north pond will commence on Thursday, May 12th.

Tom Weigel had club burgees and bumper stickers available for purchase.

Gary Phillips had several dozen small parts boxes available, free, for the taking.

Business Meeting Ended 8:00PM

Following the meeting, Kirk Brust gave a 15 minute presentation on his recently completed, 6 foot, Edmund Fitzgerald ore boat. Kirk adjusted his plans to give his buyer a desired model length which

yielded a scale very close to 1:120 or, one inch equals ten feet. The hull is a one piece fiberglass molding. Superstructure is plexiglass and styrene. Everything on the model is scratch built with the exception of a few ladders. It was a four to five month project

Terry Spletstoeszer showed his ProBoats (from China) ready-to-run Chris Craft barrelback run-

about. Marketed by Horizon Hobbies, this model is an almost exact copy of the Dumas model, for a bit less money, and comes complete with installed radio. Pretty hard to pass up ... and, you are on the water almost immediately.

Jim Smith showed his Midwest Boothbay Lobster boat. It's been 'under construction' for several years and, finally completed. Several modifications were made to convert the model into a cabin cruiser since the club already has several of the lobster boat versions.

Karl Bottemiller showed his latest creation, a tugboat named for his grandson. The "John B" is a plank on frame boat from a New Market French kit.

Nub Kopisca showed his Dumas Typhoon. This was a nine month project powered by 3600mAh NiMH cells. Nub had some difficulty getting the boat to perform well. It is difficult to turn and the first several props cavitated heavily. He currently has it running very well as anyone seeing it on the water can attest. Unfortunately, if he really lets it rip, the bow wave tends to end up in the open cockpit. So much for high performance!

Don Sektnan showed two inexpensive transmitter stands that he made... one from prefinished white wire shelving, and a second from small diameter PVC pipe and insulating foam. He also showed a tube filled with miniature spring clamps that he found at Menard's. "Cheap but good," he claimed.

Meeting Adjourned 8:25PM



BUILDERS CORNER

A MODEL WATER SKIER THAT REALLY WORKS!

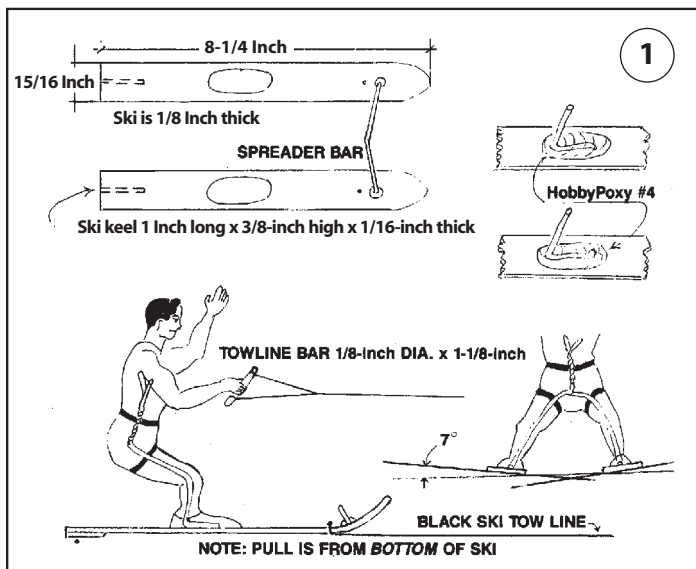


By Dale Johnson

I have been asked how I made my water skier and in this article I will try to show you how I did it. A couple of years ago George Pfeifer borrowed me an old issue of Scale Ship Modeler that had instructions

for making a water skier. I took the basic principals described in that article and scaled them for the 1/8th scale Dumas boats.

I have included the drawings from that original article to help explain the way it works. I will also include patterns for making your own 1/8th scale water skier.

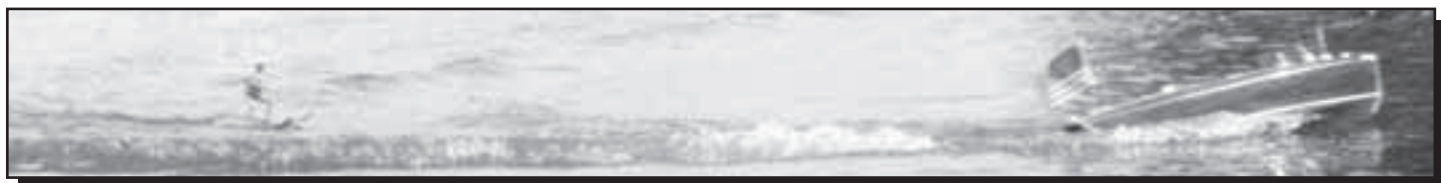


I think the key to making the skier work is to make the skier so that when he falls over he will be in position to get back up, (leaning back with skis pointing up at an angle) I had to add lead weights on the back of my skis to accomplish this. It also helps that the man floats and is wearing a life vest that floats.

Notice the skis are not flat, they slant inward at approximately a 7° angle and they are parallel to each other. I used a couple of pieces of stiff brass wire to keep the skis parallel and about one and three quarter inches apart. The skier is actually pulled from under the skis by a (20lb test) black line that becomes invisible in the water.

To speed things up I used a Breyer figure for the man and my wife Connie volunteered to make some swimming trunks for him. I found this man to be the perfect size.

First the pair of skis are made using the accompanying pattern. I made mine from a piece of 3/4-inch thick cedar on my band saw, in about five minutes.



Step 1: You cut out the side view patterns and spray mount them on a piece of wood (7/8 x 1 1/8 x 8 1/2), then just cut them close to the lines and sand to the final size.

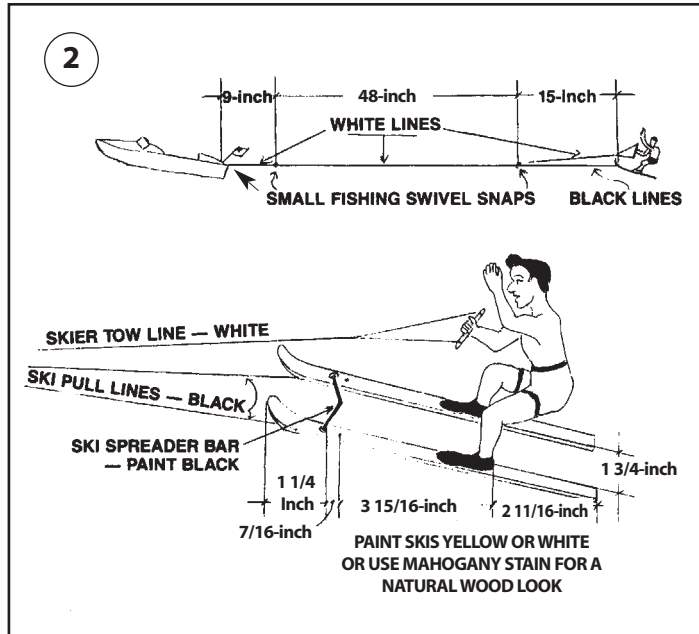
Step 2: Cut out the top view pattern pieces and spray mount them on top of the skis. Once again cut close to the lines and sand to finish. Leave the pattern on the skis until you drill the holes for the eye screws and spread bars.



Step 3: Cut out the fin pattern pieces and spray mount them on a sheet of wood or brass, then cut them out using the same process as before.

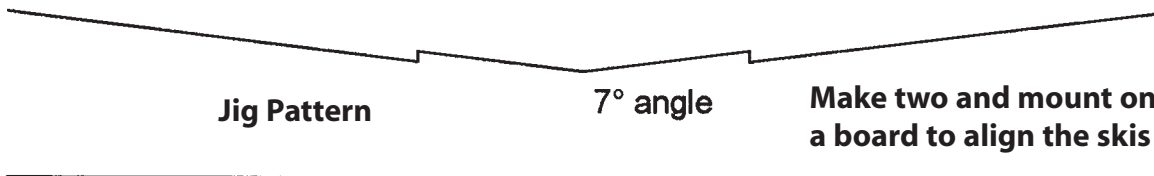
Step 4: Attach the fins with a strong water proof glue. After the fins have dried stain and finish the skis.

Step 5: The skis must be parallel - one and three quarters inch apart, and also at a seven degree angle as shown on the drawings. To align the skis I made a



jig using the jig pattern (below), this will help keep the skis parallel and at a 7° angle when you attach the spread bars and man. To attach the spreader bar at the forward part of the skis, 1 1/4-inch from the tip or front of the skis. This spreader bar is made from 3/64-inch stiff brass wire, and is used to keep the skis parallel. A 1/16-inch hole is drilled through the skis 7/16-inch behind this spreader bar. This hole is for the ski tow line and this is truly the line that pulls the

Builders Corner continues on 9



ABC'S of RC BOATS

For the beginner



By Mike Ross

Working with Airbrushes:

I have already covered the general background information about the different kinds of airbrushes that are available for hobbyist's. There are many more airbrushes available, but most of these are for artist's, and other professionals. There is nothing wrong with these high end brushes, if you can afford them. The cheap ones start at \$125.00, and they go up from there.

The next item for you to consider is your air source. There are really only two sources of air available on the market today. The first is the can of compressed air, and secondly there are air compressors. Since a properly designed airbrush is self regulating, either of these two options works well for the hobbyist. If you are planning to do a lot of painting, then a compressor is worth the extra money. If you do not think that you will be doing a lot of painting, then you might be better off with a can or two of compressed air.

Cans of compressed air:

The can of compressed air is considerable cheaper than the average air compressor. It is possible to get at least two, or maybe three dozen cans, for what a compressor might cost. However they have a number of safety issues that you should be aware of. The most obvious safety issue is, that you are working with compressed air.

Any time that you use a full, or even nearly full can, you risk frost bite. When they compress air into containers, the compression process will lower the temperature of the air. The temperature of this air can cause minor frost bite... It can cause

damage to your airbrush... It could cause your paint to freeze, and/or crystallize.

These cans can be potentially explosive. If a can is left out in direct sun light, or near a high heat source, the air in the can will warm up, and try to expand. This can cause an explosion. In special circumstances, a can of compressed air can explode just by releasing too much air too fast.

Air Compressors:

There are two basic types of air compressors available today. Both of these types use a diaphragm pump to produce air.

The cheaper of these models, pump the air directly to your air brush. Because the air flow directly from a diaphragm pump is fluctuating, this can cause you paint to flow unevenly. If you are attempting to apply your paint in one single pass, this will be a problem. I have not experienced any problem myself, because I tend to try to apply thinner coats of paint in multiple passes.

The more excessive models have a additional holding tank to store air produced by the pump. These compressors will produce a smoother (non fluctuating) flow of air. These air tank models, all have a safety release valve, so if you keep it properly maintained, you should not experience any of the problems one might encounter with the cans of compressed air.

Additional options:

Air regulators: As I said before, a properly designed air brush is self regulating. They do not need any in line air regulators to operate properly. However, if you are planning to use your compressor with other pneumatic tools that are not self regulating, such as air hammers, or pneumatic grinders, then you will need to purchase a proper regulator with your compressor.

In line water trap: These devices can be very helpful. Especially if you are working in high humidity. These traps remove most of the water in the air, providing a flow of drier air. However, you must make sure that your compressor can still operate with a water trap. These devices will cause some back pressure, that can damage a compressors. Especially those that do not have a holding tank.

Here we are at last. You have selected your airbrush, your air source, and now you are finally ready to start painting. Well almost ready to start. There are still a couple of decisions left for you to make.

Most of these decisions will be made, depending on what kind of painting you are planning to do. What kind of paint do you wish to use? Will you be mixing colors? How large an area will you be painting? Will you be spraying only one layer, or are you planning to spray a number of layers?

Mixing Bottles:

If you are planning to mix colors, and paint a large area. Then you will need a mixing bottle. Matching mixed colors is almost impossible.

Siphon caps:

Many of the more popular paints on the market today, are pre-mixed especially for use with an airbrush. All you need to do is screw on a siphon cap to the bottle, and paint.

Paint Cup, or bottle?

Paint cups tend to be less messy. When using paint cups, they are easier to clean up after, and for most people they are easier to use. When mixing colors (for a one time application), or simply trying to blend two colors together, they are the only way to go. The paint is out in the open, and so they do not have any of the internal pressure issues that bottles have. A paint cup can be used for painting larger areas, you will just have to refill it more often. If you used a mixing bottle to mix your paints, this will not be a problem.

Paint bottles tend to have larger capacities. When using a paint bottle you will not need to refill it as often as with a paint cup. On the other hand, when using a paint bottle on smaller jobs, you will need to do a lot more work to clean up after. Paint bottles do require a minimum level of paint in them to operate properly, and over filling a bottle can be just as bad, because you will not have enough air space in the bottle to keep the internal pressure regulated properly.

Siphon Bottles:

These will work under any circumstance, or condition. They are the general all-purpose paint container. Because they hold more paint, than a cup, they are best for covering larger areas.

Siphon Paint Cups:

These work best for painting smaller areas, when you are using a thinner paint, such as acrylic, or even some enamels. Thicker paints may make your brush work too hard to draw up the paint, causing sputtering, and drops.

Gravity Feed Paint Cups:

These work best for painting smaller areas, and when you are using a thicker paint such as oil. You are letting gravity do the work. Thinner paints will tend to flow too fast, and will easily run.

—Mike Ross




EDINA MODEL YACHT CLUB
 Your contact for Yacht Club "Logo Gear"
 is
Doug Person (952) 926-4934

I have three fantastic catalogues filled with clothing choices you can select to have embroidered by Team Mates, Egan.

Some clothing examples include: Polo and Chambrarty Denim shirts... Sweatshirts, Jackets, Caps, Vests, or your own shirt or jacket, etc. Embroidery options include our club logo and/or burgee with your name, boat name, number, etc.

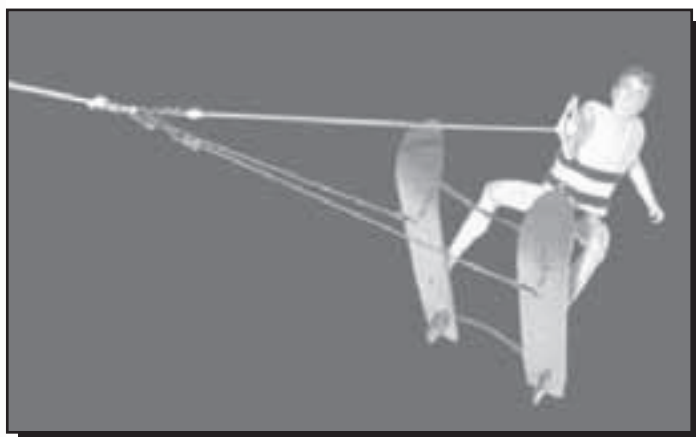
Typical costs range from about \$28.00 to \$33.00 (of course, price will depend upon the garment choice and amount of embroidery you choose)

Fly your colors...EMYC!!

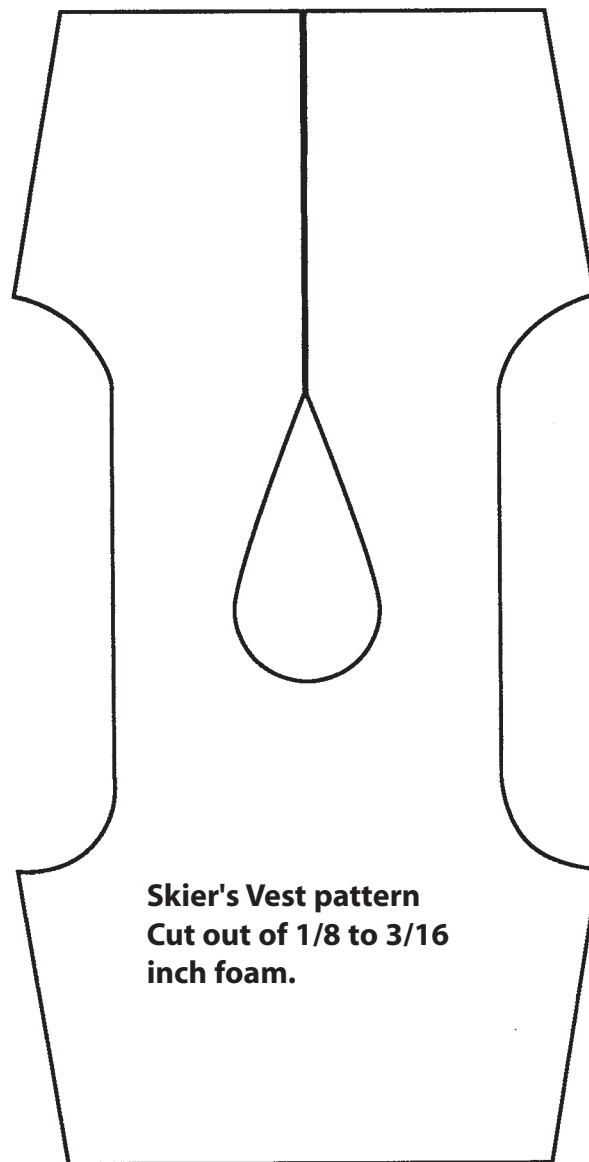
Builders Corner continued From 6

skier, not the normal ski line that the skier holds in his hand. I used a black braided 20 lb test fishing line because the black line becomes invisible in the water. To attach the man I drilled a hole in the heels of the man and the skis and used a brass peg and epoxy to secure him. He is mounted on his toes with his knees bent and epoxied in position, the right arm is also epoxied in position. Leave the left arm adjustable for balancing.

Step 6: Now the tow line is all that is left to assemble. I mounted eye screws on each side at the rear of the boat hull to attach the ski tow line. I made two lines nine-inches long and at one end of each line I tied very small fishing swivel snap. These two pieces of nine inch line are then attached to one very small fishing swivel snap. The next section of line is 48-inches long and has at one end another very small fishing swivel snap, which I call the common snap. The opposite end has just a loop on it, to go into the first swivel snap. The last section of line is the section that is attached to the skis at one end. These lines are 15-inches long and are black. They are attached to the common snap with the skier's tow line, which is white and about 17-inches long. This white line is attached to the tow line bar at the other end..



Step 7: Make the vest out of closed cell foam sheets 1/8th inch thick, You can color it with puff paint and use shoe laces for straps.



**Skier's Vest pattern
Cut out of 1/8 to 3/16
inch foam.**

NOTES

Make a couple zerox copies of all patterns before beginning.

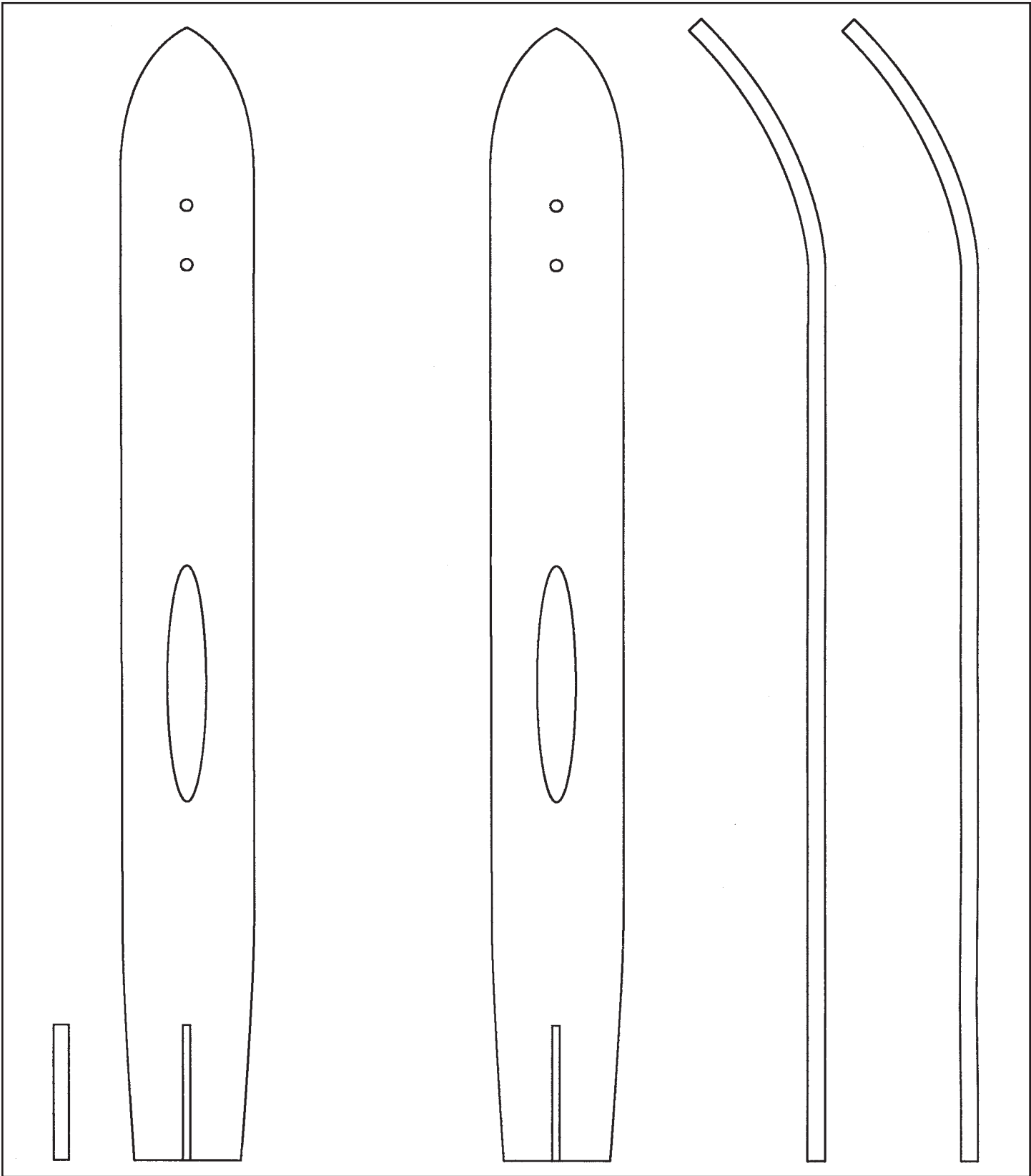
Breyer products can be found at Hub Hobby or toy stores, they make the horse models.

I used 3M spray mount found at Michaels.

I used Dumas water based mahogany stain and clear lacquer for my finish on the skis.

The inspiration for this project was an article that originally appeared in Scale Ship Modeler Vol 13, Number 5, July 1990, by Robert A. Burns

1/8 SCALE SKI PATTERN



2005 Parade continued From 1

weather or the look of stormy skies, the show still continues as an indoor display until the weather improves (it's tough to accurately predict things much more than a day in advance).

The Parade show is planned for the second Sunday of June each year. For those of you with long-term schedule books the show will be held next year on Sunday June 11th, 2006 and the following year Sunday June 10th, 2007. We need to set this up with Stacie in event planning well in advance to insure that our slot is reserved. The Centrum building is very popular for weddings, gatherings, business meetings, etc. and a quick look at the June 2005 schedule showed a full table of events. Planning at the last minute would leave us with few options and this is why we provision two years in advance. Again, the city has graciously provided us with the facility and the resources to make this show a success. Without them it would not be quite the same. Tom and his entire crew go all out for us consistently each year.

The show is also a defining point in time during the year. That is, it has given us a target date to complete projects from the long winter months. We have seen the push by many to complete their model boats by the Parade show date. Sometimes deadlines can be good. The Dave Bros Builder's table always allows for partially completed models to be displayed so don't leave interesting unfinished projects at home.

We look forward to having a good membership turnout on Sunday June 12th. This is the best attended event of the season.

The key to success is for the event to be enjoyable and rewarding to everyone; so when you participate in the show, make sure you display, run, and assist in a way that is productive and comfortable for you. Some do a lot and some do not as much but everyone is welcome to participate at whatever level you desire.

Keep it simple and keep it fun. This is what we will strive for again. This should be another great year for a Parade of Model Boats. See you there.

John Bishop (952) 922-1745

2005 EVENT SCHEDULE

9:00 AM Setup indoor membership and information, building, and display areas. Setup outdoor running and frequency control areas. Skim water in central pond and clean running area. Setup and test outdoor P.A. and music systems. Display signs.

10:45 AM Skippers Meeting in Centrum building. Review details of the show including indoor display, schedule, frequency use, EMYC drawing, etc.

11:00 AM Indoor Display within the Centennial Lakes Centrum

Building. All boats will be on display. This is a great opportunity for club members to get reacquainted again and browse around the room to see new projects. It is also a great time for the general public to collectively see all the boats and builders in one place.

12:00 PM Open Boating/Open Water. A general introduction to the Edina Model Yacht Club and the hobby of radio controlled boating will be presented during this segment. Everyone is invited to run during this halfhour time period. This opening event is set up so as to show the variety and diversity of R/C boats among the membership of the EMYC. Ships log forms will be used to describe boats on the water.

12:30 PM Tugboats and Work Boats. Display of features and operating equipment on various boats. *Special smoking barge segment. Boats with water cannons will "put out" fire.

1:00 PM Sailboats of all types and classes. Fairwinds, AC-914's, Marbleheads, EC1 2's, etc. Open class regatta planned by our sailing group.

1:30 PM Fast Electric Boats. Display of individual high speed electric boats. Racing event planned by the high speed electric group.

2:00 PM Military Boats. Flotilla including PTs, destroyers, battleships, subs, etc.

2:30 PM Scale Boats including pleasure craft, ore carriers, paddle wheelers, steam powered, etc.

3:00 PM Tugboats and Work Boats. Display of features and operating equipment on various boats. *Special smoking barge segment. Boats with water cannons will "put out" fire.

3:30 PM Open Boating/Open Water. All types of boats allowed to run during this half-hour period. Those running past 4:00 PM will be responsible for their own frequency use.

ON THE WATER



Vice Commodore Bros interviews a prospective new member. After close inspection of his qualifications... Dave welcomes our newest member Neil Younggren.



By Dale Johnson

I found Don Sektnan running his Sunga Marutham cruiser Sun-day afternoon April 24, 2005 around 1:00pm. He seemed to be running some tests to fine tune his drive system.

I really like the type of modeling Don does. You might call it folk modeling, I say that because he seems to build his models from items you might find around the house, giving them a real folksy feel. For instance the deck is made from a scrap of hollow core door. The fittings are from an old Sterling fitting set or otherwise hand

made. His boat, in its first incarnation around 1948, was a Higgins cabin cruiser originating from a set of plans in a magazine. Over the years he has had several different cabins. Originally Don's boat was gas powered, he has now converted to electric power so as to be compatible with the parks rules.



Don's well running SUNGA MARUTHAM

I personally appreciate the way Don always tries to share his modeling tips and discoveries with his fellow club members. I think that's what it's all about.

SAILBOAT TUNE-UP

By Alex Raupp



On Saturday, April 30th, we held our annual Sail Tuning program. Usually, this event brings 20 -30 sailors, but this year we only had about 15. Tony Johnson ran the show and did a commendable job tuning up old boats as well as modifying boats of new sailors.

A new sail was made out of mylar for Bill Poland's new, custom built land yacht, and we all got a chance to see the procedure. Several boats were adjusted to improve sailing with varying degrees of modification.

Unfortunately, the weather was quite chilly though a few sailors took their new rigs out for a test run.

In all it was a successful event and we all look forward to a great season of sailing.

— Alex

SPECIAL THANKS

To all the members that contributed to this issue of the Sail & Scale. Without you this publication would be nothing.

Dave Bros, Fred Ferris, Olivia Isil, Ray Johnson, Terry Mackey, Paul Olsen, Doug Person, Alex Raupp, Mike Ross, Jim Smith.

- NOTICE -

MONTHLY MEETINGS

During this time of year it is very difficult to tell exactly where the monthly meetings will be held. We will try to hold them in the Centrum Building but often times the building is not available, in that case the meeting will be switched to the Band Room in the Garage, as in the winter.

- Please check both locations. -

HANDICAPPING SEASON

By Terry Mackey



The Thursday Night Handicapping Season will start May 12. We race from about 5:30-7:30...come down to the North Pond with any sailboat you have and enjoy the fun.

We sail two heats: under 39" boats in one and 39" and above in another. Typically we try to get in 6 heats a night.

We're trying something different this season. A handicap will be assigned to each boat...that number will be calculated into the results for each night. All sailors with email will get the results the following day...they may also be posted on the website. The standings will continually be updated each week through the season, so you can see how you're improving or not.

This can be as competitive as you want it to be. We're there to learn and have some fun...come on down Skippers!

There will still be open sailing on the North Pond on Tuesday nights and Sundays.

— Terry

SAIL & SCALE STAFF

I am still looking for a writer to join the Sail & Scale staff. A person that can write a monthly column and deliver it as an electronic file (preferably over the internet) ready to publish, not meaning formatted, just a plain text file spelling and grammar checked. You must have a respect for deadlines.

If you are interested contact Dale Johnson at: 952-854-3243 or drj528847@mn.rr.com

CLUB SHIRTS HATS ETC.

Contact:
Douglas Person (952) 926-4934

Cub Burgees and Stickers

Contact:
Tom Weigel (952) 941-1197



EDINA MODEL YACHT CLUB

**Centennial Lakes Centrum
7499 France Avenue South
Edina, Minnesota 55435
www.emyc.org**

MAY MEETING

**TUESDAY, MAY 17, 2005 7:00 P.M.
CENTENNIAL LAKES CENTRUM BUILDING**

PRESENTATION ON AIR BRUSHES

At the May meeting we will go over final plans for the Parade of Boats and Mike Ross will share with us his knowledge of Air Brushes.

Special Interest Contacts:

Membership:

Dale Johnson (952) 854-3243 drj528847@mn.rr.com

Scale Boating:

Tim Smalley (952) 891-4295 tim.smalley@charter.net

Sail Boating:

Tony Johnson (952) 470-8818 tonyj@visi.com

Fast Electric:

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