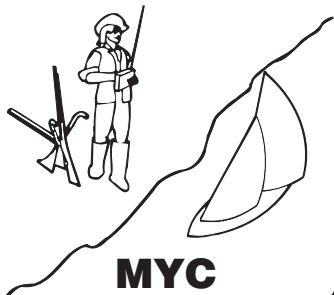


MINUTEMAN



Minuteman Model Yacht Club

Commodore: Hal Robinson, 19 Orlando Avenue, Arlington, MA 02474-2922 (781) 648-4074

Vice Commodore: Art Jacobsen, 43 Cedar Street, Foxborough, MA 02035 (508) 543-1321

Rear Commodore: Don Fisher, 477 Franklin Street, P.O. Box 38, Wrentham, MA 02093 (508) 384-6328

Secretary/Treasurer: Jack Sullivan, 33 Rustic Road, E. Walpole, MA 02032 (508) 668-7163

AMYA President: Jack Gregory, 131 N. Main Street, Sharon, MA 02067-1227 (781) 784-7625

AMYA Region 1 Director: Peter Latournes, 10 Acorn Dr, Windsor Locks, CT 06096 (860) 623-1710

Newsletter Publishers/Editor: Jim/Susan Linville, 57 Edgewater Road, Hull, MA 02045 (781) 925-0045

JUNE 2000

About Minuteman Model Yacht Club

The Minuteman MYC is dedicated to the development of all aspects of model sailing. Dues for the year 2000 are \$15.00; checks should be made out to "Minuteman MYC" and sent to Jack Sullivan at the address above.

Formal trophy regattas are held regularly. From April to June. Informal sailing sessions are held on Tuesday evenings between 5:00 PM and Sunset, and on Sundays beginning at 10 AM at Needham Reservoir, and at Rosemary Lake in Needham until November. Indoor meetings are held monthly between January and March.

The club recommends that new members select the Soling One Meter class yacht as their first boat. The Soling One Meter is a low-cost, entry-level, one-design boat. It is available in kit form, and a complete, ready to sail yacht can be built for less than \$250, including radio.

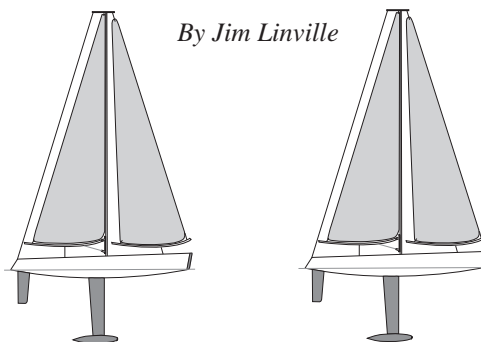
If you have questions, don't hesitate to call any of the officers listed above. Or come and see us on Tuesday evening or at one of our regattas. Also, check out the AMYA web page on the Internet <www.amya.org>.

IN THIS ISSUE:

- ☆ METRIC TWO
- ☆ INTERCLUB TWO
- ☆ LOTS OF TECHNO STUFF
- ☆ JUNE — JULY SCHEDULE

Metric two

By Jim Linville



Sunday of the Memorial Day weekend, June 28th, was a beautiful day for sailing — not too sunny, not too cloudy, light but generally steady winds, and 13 happy skippers were on hand for the second regatta of Minuteman MYC's Club Metric Series. In addition to the usual motley crew from MMYC, Fran Gowash and Rich Ellis of Springfield and Steve Larkin of Marblehead showed up to sail with us. Remember that any and all skippers are welcome, but since that this is a "Club" event, only the scores of MMYC members will be counted in the series standings.

Racing was nip and tuck right up to the end, but once again J.R. LeBlanc showed us how it was done. Hal Robinson beat Jim Linville out of second place with steady sailing and two firsts in the last three heats. Linville, who was sailing the boat he calls the heaviest and most complex US1M in New England, won five of the 13 heats outright, but was so erratic in the other heats that he had to eat a 10th place finish. Surprise of the day was how well the International One Meters performed, with Rich Ellis finishing 4th overall and Bob Francis 6th. Not bad for 8.8 pound boats in light air.

Jack Sullivan left early, and Tony Payne had electronic problems that forced him to drop out after the 4th heat. Joe Doura, who was sailing the "Cricket" he bought from Ken Lamb for the first time was right in the mix until he had a DNF in the 11th heat and couldn't start the last two.

By virtue of his win in Metric One, Hal Robinson was Race Director and did a fine job. Kudos are due to Susan Martin for a great job as score keeper. Kenny Lamb, who was on hand as a spectator, must have had a hard time figuring out who to cheer for because J.R. LeBlanc, Joe Doura, and Hal Robinson were all sailing boats Kenny sold them, and all three were often neck and neck to a mark or the finish line.

(Continued on page 2)

Place	Skipper	Sail	Score	Class
1	J.R. LeBlanc	930	30.25	US1M
2	Hal Robinson	1127	36.25	US1M
3	Jim Linville	1058	40.75	US1M
4	Rich Ellis	23	59.75	IOM
5	Cliff Martin	1122	64.00	US1M
6	Bob Francis	22	68.00	IOM
7	Joe Doura	641	77.75	US1M
8	Rick Laird	1174	89.00	US1M
9	Fran Gowash	333	103.00	S1M
10	Alain Jousse	49	114.00	S1M
11	Steve Larkin	66	125.00	CR914
12	Tony Payne	444	151.00	US1M
13	Jack Sullivan	570	171.00	S1M
	Ghost		200	

Overall Standing

Place	Skipper	Sail	Score	Class
1	Hal Robinson	1127	73.75	US1M
2	Jim Linville	1058	105.50	US1M
3	J.R. LeBlanc	930	148.50	US1M
4	Cliff Martin	1122	155.00	US1M
5	Tony Payne	444	194.75	US1M
6	Alain Jousse	49	220.00	S1M
7	Bob Francis	22	226.00	IOM
8	Jose Venegas	212	240.75	US1M
9	Dave Hopkinson	1105	269.00	US1M
10	Joe Doura	641	277.75	US1M
11	Rick Laird	1174	289.00	US1M
12	Joe San Antonio	359	295.00	US1M
13	Kurt Fleming	585	338.00	S1M
14	Jack Sullivan	570	371.00	US1M
15	Al Bradford	671	372.00	US1M

With more than half of the available frequencies for the Metric Series already taken, now seems like good a time to publish the list of reserved frequencies. The following people have reserved the frequencies listed below. Adjustments can, of course, be made on site but it seems like a good idea to give everyone a heads up. Please call Jim Linville at (781) 925-0045 to reserve frequencies for the Metric Series only. Frequencies for all other regattas will continue to be reserved by Art Jacobsen.

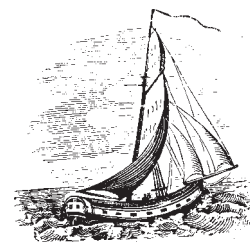
Channel	Skipper	Channel	Skipper
26.995	Jack Sullivan	76	Cliff Martin
65	Al Dion	77	Tony Payne
66	J.R. LeBlanc	78	Jose Venegas
68	Al Bradford	79	Trevor Lambert
69	Sue Linville	80	Joe Doura
71	Alain Jousse	84	Jack Gregory
72	Hal Robinson	85	Kurt Fleming
73	David Hopkinson	86	Joe San Antonio
74	Rick Laird	88	Jim Linville

Inaugural Soling One Meter Millennium Interclub

By Fran Gowash

Well the first Soling One Meter Interclub of the new era is over. Actually scheduled as the 2nd Interclub it came first due to a rescheduling of the Mansfield, CT event because of terrible weather. Ten skippers gathered at Loon for the 10 am start (well almost 10 am). The weather was threatening and winds very light. As post time approached we feared a decision to cancel might be in order until a carload of skippers from Martha's Vineyard arrived. A slight delay until 10:30 and we got underway. Peter Wells continued to demonstrate his winning ways even in the light air. Peter took first place with Howie Kannegsberg second, Jack Gregory third and Richard Ellis fourth. Things might have been very different for Jack if only he had arrived on time. Jack took a DNS on the first heat and this was just a little too much to overcome. The Martha's Vineyard crew took the team award for the day by just 2-1/2 points. There were 12 heats sailed with one throw out. Many thanks to Dick Malone, Sharon Gowash, and Ron Rhault for helping with the operational duties. Here's how it went:

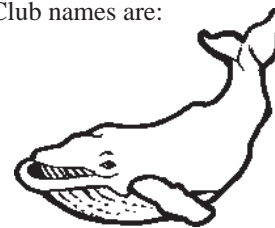
1. Peter Wells MVYC 26.25
2. Howie Kanegsberg SMYC 31.50
3. Jack Gregory MMYC 34.00
4. Richard Ellis SMYC 54.00
5. Carroll Bures MVYC 55.75
6. Fran Gowash SMYC 55.75
7. Glenn Provost MVYC 56.75
8. George Schnare SMYC 72.00
9. Charlie Parton MVYC 89.00
10. Larry Clinton SMYC 98.00



New England Model Yachting Event Schedule for June and July 2000

This list is as complete as possible. The most up-to-date version can be found on the web at www.amya.org. Events beginning with "Club" are local club events and may be restricted to members of the sponsoring club. Club names are:

020, Greater Hartford MBC, Rich Ellis, (860) 633-0398, <richard.ellis@snet.net>
 025, Minuteman MYC, Art Jacobsen, (508) 543-1321, <amya6033@aol.com>
 026, Penobscot Bay MYC, Paul Senk, (207) 236-6798
 041, Marblehead MYC, J.R. LeBlanc, (617) 631-0797, <jrleb@shore.net>
 051, Narragansett MYA, George Greenhalgh, (401) 245-7493, <robbsky@aol.com>
 159, Stowe YC, Bruce Nourjian, (802) 253-7131
 Vin, Vintage Model Yacht Group, John Snow, (781) 631-4203, JSnow@drc.com



Other clubs exist, but have not submitted events for this calendar. To submit events, contact Pete Latournes at (860) 623-1710 or via e-mail at <platournes@aol.com>.

Date	Event	Club	Class	Location	Time
6/3/00	Can-Am Regatta	159	S1m	Commodore's Inn	10 am
6/4/00	Can-Am Regatta	159	S1m	Commodore's Inn	10 am
6/3/00	Race #3 (Sat.)	041	VM	Redd's Pond	1 pm
6/4/00	Roy Clough Cup #3	041	M	Redd's Pond	10 am
6/11/00	Club Metric #3	025	US1m/S1m	Lake Rosemary**	10 am
6/11/00	Club Handicap #2	051	EC-12	Roger Williams St Pk	10 am
6/11/00	Red Robin Series #6	041	CR914	Redd's Pond	10 am
6/18/00	Osprey Series #1	041	CR914	Redd's Pond	10 am
6/18/00	Full Memorial Cup	041	VM	Redd's Pond	1 pm
6/23/00	Wooden Boat Show	Vin	Exhibit/Demo	Mystic Seaport	9 am
6/24/00	Wooden Boat Show	Vin	Exhibit/Demo	Mystic Seaport	9 am
6/24/00	S1m Interclub #3				
	Bacardi Cup (Sat.)	159	S1m	Commodore's Inn	10 am
6/25/00	Wooden Boat Show	Vin	Exhibit/Demo	Mystic Seaport	9 am
6/25/00	Club Handicap #3	051	EC-12	Roger Williams St Pk	10 am
6/25/00	Under 46" Regatta	020	<46	Mansfield St Pk, CT	11 am
7/4/00	Independence Day Regatta	025	Open	Lake Rosemary†	12 noon
7/4/00	Firecracker Regatta #4	041	M	Redd's Pond	10 am
7/9/00	Osprey Series #2	041	CR914	Redd's Pond	10 am
7/9/00	Race #4	041	VM	Redd's Pond	1 pm
7/9/00	Club Handicap #4	051	EC-12	Roger Williams St Pk	10 am
7/16/00	S1m Interclub #4	026	S1m	Camden Maine	11 am
7/16/00	Race #5	041	M	Redd's Pond	10 am
7/16/00	Tony Lombardi Memorial	051	Open	Roger Williams St Pk	10 am
7/23/00	Star 45 Reg 1 Champ.	020	S45	Mansfield St Pk, CT	11 am
7/23/00	Club Handicap #5	051	EC-12	Roger Williams St Pk	10 am
7/23/00	Club Metric #4	025	US1m/S1m	Lake Rosemary	10 am
7/23/00	Osprey Series #3	041	CR914	Redd's Pond	10 am
7/28/00	"J" Class ACCR*	Vin	"J"	Mystic Seaport	10 am
7/29/00	"J" Class ACCR*	Vin	"J"	Mystic Seaport	10 am
7/30/00	"J" Class ACCR*	Vin	"J"	Mystic Seaport	12 N
7/30/00	S1m Interclub #5,				
	Bill Visser Memorial	130	S1m	Lilly Pond, Laconia	11 am
7/30/00	Race #6	041	M	Redd's Pond	10 am

† Jim Linville is RD, (781) 925-0045; or jimisu@mediaone.net

* Contact "J" Class Secretary, John Hanks, 520-680-7331

** Will be sailed at the Needham Reservoir if Lake Rosemary is not ready. Check with Hal Robinson (781) 648-4074.

Paralyzed Veteran's Field Day

By Jack Sullivan

The New England Chapter of Paralyzed Veterans of America (PVA) is proceeding with their plan to hold a field day at the Brockton Veteran's Affairs Hospital on Saturday, June 24, with a rain date of Sunday, June 25th. Model boating is one of the planned events.

The time scheduled is from 10 AM until 2 PM.

The site for model boating is on the pond near the indoor swimming pool.

The boats to be used are those from the outdoor fleet that Minuteman MYC members and other skippers have contributed to the Massachusetts Hospital School Model Sailing Program. Also welcome are any boats (sail or power) that you would like to demonstrate or allow hospital patients and their guests to operate.

Directions to the Brocton VA Hospital: Take Route 24 north or south to the Route

123 interchange (exit 17). Proceed east toward Brocton Center. The hospital's main entrance is the second right after the highway ramps. The hospital grounds are quite large. Take the first right after entering the main entrance, and follow the hospital roads to the south side of the campus. If you get lost ask directions to the indoor swimming pool. From there you can see the small man-made pond.

For more information call **Jack Sullivan at (508) 668-7163 or Bob Francis at (781) 899-3662.**

TECHNO STUFF

Tips for Casting in Lead

By Dave Acree

Reprinted from The Mesa MYC (Arizona Newsletter)

Ever wanted to cast your own lead keel bulbs, but every time you tried it never worked out right? The following tips may be of some help to you the next time you try.

Tip 1: Paint the bulb plug with liquid soap just before you pour a split mold casting. This will help air bubbles rise out of the mold and help keep them from sticking to the plug where they will harden in the cast.

Tip 2: When you mix the plaster-of-paris, add the water slowly and don't stir too vigorously causing air to get trapped in the liquid plaster-of-paris.

Tip 3: After you have poured the plaster-of-paris into the form, you need to eliminate as many air bubbles as possible. To do this you can vibrate the form/ plaster-of-paris to help the bubbles rise to the surface. Any item that can create vibration waves can do the job.

Tip 4: Before pouring the second half of a split mold, be sure to grease

the bulb plug and the plaster face of the first half well before pouring the new plaster-of-paris. Not doing so will allow the plaster-of-paris parts to stick together.

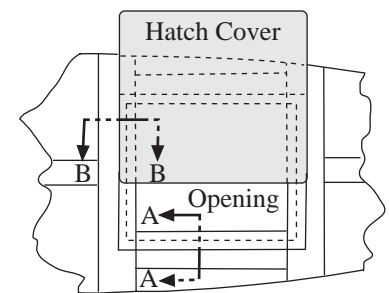
Tip 5: Be sure to let the plaster-of-paris mold dry thoroughly (at least 3 to 4 days) before casting the lead. Not doing so is dangerous. When molten lead is poured into the mold, the intense heat turns any moisture in the plaster to steam, which can explode the mold and splatter molten lead everywhere.

Tip 6: Let the mold warm up in the hot sun just before you pour the lead. Precious metals such as gold and silver like to be cast in a hot plaster mold. When casting lead we can't use a hot mold, but we can use a warm mold.

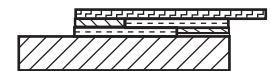
Tip 7: Pour the lead vertically instead of horizontally. Lead shrinks when it cools, causing a depression in the lead bulb. If poured vertically with the pour hole at the trailing tip of the bulb, the lead will still shrink, but that's OK because you can easily shape the bulb's tip during clean up.

A Different Type of Hatch Cover

Reprinted from the USIM Construction Guide with the permission of the AMYA Class Secretary



Section A - A



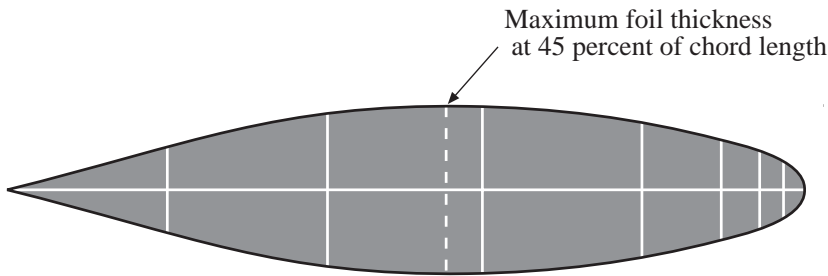
Section B - B

	1/2" x 3/4" Spruce
	1/32" x 3/8" Ply
	1/32" x 3/16" Ply
	1/64" x 3/16" Ply
	1/8" x 3/16" Balsa
	Hatch Cover 1/32" Ply or Plastic Sheet

This hatch cover slides out from the side of the hull and has tongue and groove rails for sealing.

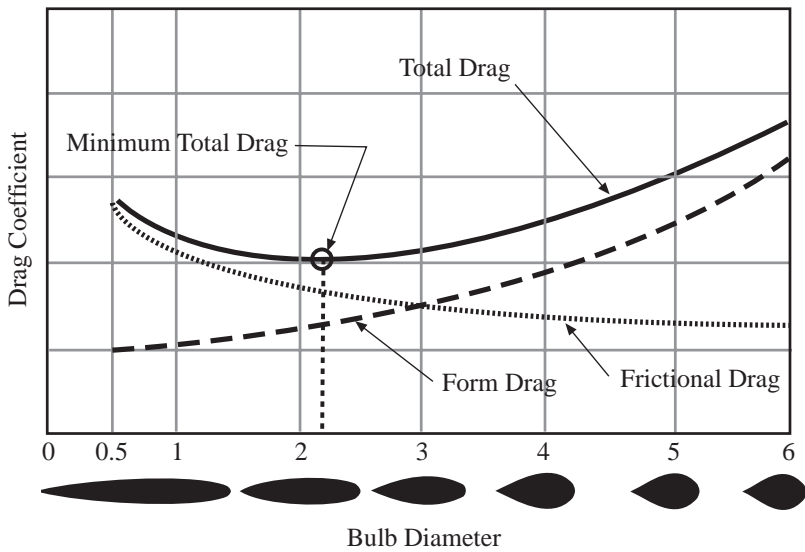
KEEL BULB SHAPE

By Dave Acree, Mesa MYC



Torpedo shaped keel bulbs do not provide lift, they simply help keep the boat upright. The goal in designing a keel bulb is to minimize drag. According to the U.S. National Advisory Committee for Aeronautics (NACA), if a bulb's volume of weight is constant, the size and length does make a difference. A long bulb with a small diameter produces a large wetted surface and high frictional drag, but is low in form drag. A bulb that is short and fat produces a small wetted surface and low frictional drag, but high in form drag. Both of these extremes will not give the performance a model yachter wants. The best performance is produced by a trade-off between chord length and thickness. Ideally, the maximum foil thickness of the bulb should be at 45 percent of the chord length. Note in the graph below that the point of minimum drag is lowest between 2 and 2.5. Anything before or after the 2 to 2.5 range creates more drag.

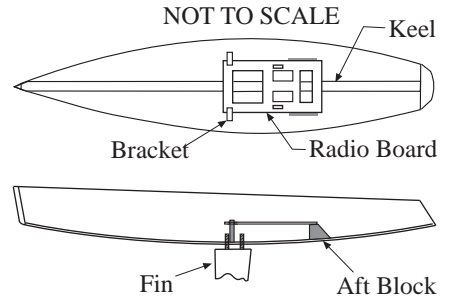
Drag vs. keel bulb diameter (where bulb volume is constant).



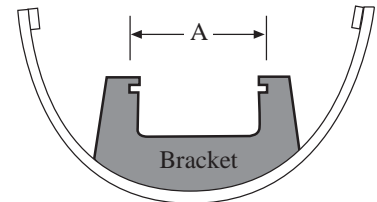
RADIO BOARD INSTALLATION

Reprinted from
The USIM Construction Guide

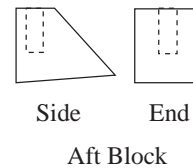
Your equipment dictates the size and placement of the radio board.



Make the hull bracket from 1/8" plywood. Cut and sand until bracket fits hull and radio board perfectly. Dimension "A" is the width of the radio board. Trim the inside area of the bracket to provide clearance for sail winch and/or keel mounting blots and nuts.



Aft block is made from 3/4" pine scrap. Drill hole in block to accept a screw or stud with wing nut.



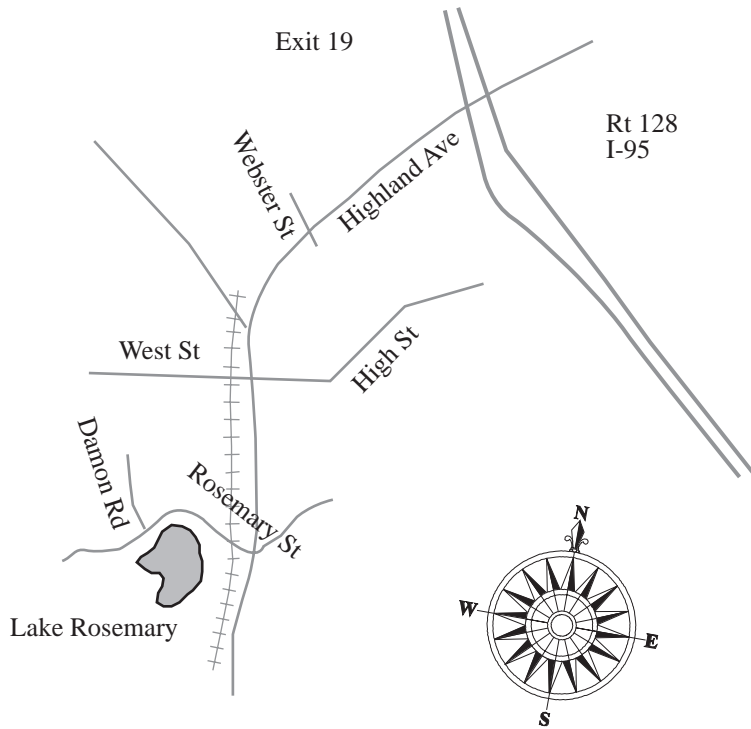
Epoxy bracket and aft block in place, use radio board to establish correct position for them.

Minuteman MYC Resources

AMYA Soling Jig #1	Jack Gregory	(781) 784-7625
AMYA Soling Jig #2	Jim Linville	781-925-0045
AMYA Soling Jig #3	Alain Jousse	603-433-1584
Regatta Registration / Freq.	Art Jacobsen	508-543-1321
Membership / Mass. Hosp.School	Jack Sullivan	508-668-7163
Vintage Model Yacht Group	John Snow	617-631-4203

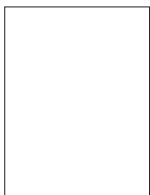
NOTICE

DEADLINE FOR SUBMISSION OF ARTICLES IS THE 21ST DAY OF THE MONTH PRIOR TO PUBLICATION. ARTICLES RECEIVED AFTER THE 21ST DAY WILL BE PUBLISHED IN THE FOLLOWING MONTH, SPACE PERMITTING.



HOW TO GET TO ROSEMARY LAKE

We begin sailing at Rosemary Lake in Mid-June when the lake refills following it's annual draining. To get to Rosemary Lake take I-95/Rt-128 to Exit 19 (Highland Ave.) and head West towards Needham. Rosemary Street is approximately 2 miles from the exit. Turn right at the traffic light by the library.



Minuteman Model Yacht Club
 c/o Needham Park and Recreation
 Town Hall, Needham, MA 02192

