

Model Yachting

A Quarterly Publication of the American Model Yachting Association, Spring 2009, Issue Number 155 US\$7.00

*Featuring
European Model Yachting*



*Bill Worrall Explains Revisions to the
2009–2012 Racing Rules of Sailing*

On the Covers

On the Front Cover: Mark rounding at the Micro Magic 2008 European Championship Regatta, held at Port Of Rosas, Spain. Photo by Bill Shorney—Toronto, Ontario, Canada.

On the Back Cover: 1891 R/C Herreshoff Gloriana sailing model with 96-inch LOA. Photo by Andrew Charters, scratch-builder, and skipper—Meggett, South Carolina.

This issue of *Model Yachting* includes several articles featuring model yachting in Europe. As you will read, there is a grand variety of model yachting activity in Europe, and there is much in common with USA ideas and techniques. That which is different offers us new insight into the conduct of our pastime. This issue introduces the regular addition of a European Model Yachting column by Klaus Huber to our *Model Yachting* magazine regular columns.

The American Model Yachting Association (AMYA) is a not-for-profit organization dedicated to promoting the designing, building, racing, and preservation of all model sailing yachts and is open to all people who are interested in these activities.

In pursuit of these goals, the AMYA publishes *Model Yachting* magazine. *Model Yachting* is published four times per year in accordance with the AMYA calendar. The staff of the magazine is composed primarily of AMYA member volunteers who devote countless hours of their time to produce this publication. Editorial policy is ultimately determined by the AMYA Board of Directors; however, the views expressed in this publication do not necessarily represent the views of the Executive Board, the Board of Directors, or the majority of the AMYA membership.

Advertising in this publication is encouraged as an informative service to the AMYA members and as a means of helping defray the costs of printing. The AMYA does not take any responsibility for any advertiser's products.

This issue of *Model Yachting*, except those parts as are specifically stated, is Copyright © 2009 by the American Model Yachting Association, January 2009. All rights reserved.

Advertiser Index

American-RC.Com 60
Anchor Bay 57
Black Sails 55
Blackmagick Sails 58
Blue Crab Model Yachts 67
Carr Sails 60
Chesapeake Performance Models 56
Classic Sailboat Models 2
Dennis Desprois' Walrus Sails 60
Leading Edge Hobbies 63
Midwest Model Yachting 59
Model Yacht Fittings 61
Motel 6 60
R/C Yacht Concepts/Carriers 53
RMD Marine 51
RMG Sailwinch 58
Sail Carrier 53
Spider Sails 54
US 12 and Liberty 34 61
Victor Model Products 67
Windjammin Sails 52



Contents of Issue 155

The Masthead	4
President's Letter	5
<i>Model Yachting</i> Editorial Calendar for 2009–2010	5
<i>Model Yachting</i> News	6
AMYA Business Calendar	6
2008 AMYA Hal of Fame Inductees	7
Images from the "Making of an IOM"	8
Participating in the 2008 Micro Magic European Championship ...	11
Learning How to Set the Trim of Your Boat	13
The Vintage Model Yacht Group in the United Kingdom	21
Cartoon	24
The RG 65 in France	25
The RG 65 in Spain	25
The RG 65 in Germany	26
Footy Internet Course—An Introduction	28
Sheeting Sails with Two Servos	29
Introducing the Basic	30
Let's Race With The Rules—Introducing the 2009–2012 RRS	32
Regatta Reports	39
Regatta Schedule	50
Class News & Tips	51
East Coast 12 Meter	51
Santa Barbara	51
Marblehead	51
Ten Rater	52
36/600	53
Newport 12 Meter	53
Open Class	53
Star	54
J	54
Soling 50	54
US One Meter	55
Infinity 54	55
AC Class	56
CR 914	56
Victoria	57
Wheeler	58
IOM	58
V-32	59
SeaWind	60
US12	61
Footy	61
Pea Pod 36	62
T37	62
Micro Magic	62
US Vintage Model Yacht Group	63
AMYA Yacht Registration Form	64
AMYA Ship's Store Order Form	65
AMYA Membership Application Form	66

**Issue 156 Final Deadline is
March 26, 2009
Featuring:
The J Class**

The RG65 in Germany

Dr. Ing Joachim Pelka

It was only a few years ago when Rainer Blank tried to establish one of the oldest model yacht classes, the RG-65 Class, in Germany. He started his initiative in the southern part of Germany at Lake Constance. Soon, the first small group of RG-65 enthusiasts grew and began to spread out over all of Germany. Today we have around 115 registered sailors.

What is RG-65 "Open"?

Compared to the international RG-65 Class, the German class rules are a little less restrictive. For example, the length has only an upper limit and the rudder placement may extend over the 65 cm hull length. This was introduced to make the start of the class easier. It allows several commercial boats like Kyosho's *Fortune 612* to fit into the class. During the first years it helped a lot to trigger the interest in the class and to get an acceptable size of the regatta fleets.

Of course the design freaks have some more freedom during construction, due to this German "open" version. However, most of the regatta boats are fully compliant with the international class rules today. Experimental designs using all the freedom of the German class rules are rare and are usually not found in the front of the fleet. Commercial boats no longer have a real chance in a race.

Regions and Regattas

In Germany the RG-65 class is not an "official" class; i.e., it is not approved by the German Sailing Federation (Deutscher Seglerverband [DSV]) as a national class. Consequently, most of the RG-65 activities have moved outside of regular sailing clubs. The German RG-65 community organizes itself completely by Internet. However, many of the RG-65 sailors are also sailing big boats, so a certain amount of support from regular sailing clubs is guaranteed. For example, the 2007



Strong winds during the first day. Photo by ©Uwe Koch.



RG-65 racing in Germany. Photo by ©Nina Pelka.

German Championship was organized by the Lübecker Yacht Club, and the races in Berlin, the German capital, are usually supported by the Baltic Sailors Association (Baltische Seglervereinigung).

For racing, the RG-65 community has divided itself into four regions characterized as: the South—the southern part of Germany, mainly the region near Lake Constance (Bodensee); the North—roughly the coastal region from the Dutch border to the former GDR (East German) border; the West—the River Rhine area and the middle part of Germany; and the East—the area of the former GDR including Berlin. Around 35 German boats are registered in the South, which meanwhile has become international. There the Swiss have joined, with another 20 boats. Another big group is located in the northern region around the Hanseatic cities of Hamburg and Lübeck. This group has some 35 members, too. In the East the activities are concentrated mainly around the German Capital, Berlin. About 25 boats are registered here. In the western region the sailors are spread over a much larger area along the river Rhine. We have another 20 boats in the West and a new group just on the other side of the Dutch border. The Dutch have just founded their first RG-65 community, and the first links to the German RG-65 community have been established. Perhaps it will develop similar cooperation as exists between the Swiss and the southern group.

Besides the local regattas, which are organized more or less spontaneously, there is a fixed series of races in each region, the so-called Regional Cups and, of course, the German Championship. The Regional Cups are the main events in the four regions, with usually 15–20 participants. Each series consists of four single races at different places, distributed over the year. The German Championship is usually organized in the autumn.

The Boats

In the beginning the RG-65 Open, in

Germany, was dominated by the well-known *JIF65* design, which is a rather ugly but well-mannered boat. Twenty-nine *JIF65*s are still registered in Germany and a well-sailed *JIF65* can be found in the top group of a race even today. But the fleets are changing now. A lot of downscaled IOM designs have been built in Germany and Switzerland during the last two years. IOM hulls, scaled by the factor 0.65, fit perfectly into the RG-65. For example, the *Laerke-65*, a downscaled IOM design of Soeren Andresen (Denmark) has proved to be a good boat for fresh wind conditions, and some 18 *Laerkes* are registered today. Dan Sherman's *Vanquish* design is also freely available and was adopted by Ulrich Burbath to the RG-65 Class. This so-called *Banquish* is used as a good all-around boat by 16 German sailors. Also some nice Triple Crowns have been built, mainly in Switzerland. In the meantime an increasing number of other RG-65 designs is emerging. For example, ten *JIF2s* and eight *Palo de Aguas* can be found on our ponds. Moreover, Arne Semke from Lübeck, in the northern part of Germany, has designed several new boats like the *Blue Splash* (three boats) and the *Offset* (seven boats), which are also very good all-around designs. His latest design, the *Viperfish*, won the 2008 German Championship. Drawings for these and other RG-65 designs can be found at (<http://RG-65.free.fr/>).

All the new designs follow the same



Winter sailing in Berlin. Photo by ©Thorsten Krasselt.

trend. Starting with the 1,200 g *JIF:65*, going to somewhat around 1,000 g with the down-scaled IOM-designs, the boats are getting lighter in weight now. The *Viperfish* has a construction displacement of approximately 900 g. First experiments have been made to adopt M-boat designs to the RG-65 class (scaled by a factor of two), which will result in displacements below 800 g. A good example of this is Peter Gernert's interpretation of Peter Stolery's *Crazy Tube*.

Different materials are used for making



The Viperfish—a successful design of Arne Semken, Lübeck (GER 9). Photo by ©Arne Semken.

the hulls with no significant differences in performance. Carbon fiber is used mainly for appearance, since the stiffness of a glass hull is sufficient. Wood is a little bit sensitive to collision, but has no other significant disadvantage. A typical hull made from glass or carbon fiber weighs around 70 g. Two layers of 93 g/sqm carbon or 105 g/sqm glass give the necessary rigidity, and a 49 g/sqm surface layer gives a rather smooth surface even when laminated on a plug.

Hulls made from a negative mold are a little bit heavier, but have a perfect surface. Hulls laminated on positive plugs are usually somewhat lighter, but require additional filler and paint for a smooth surface, which results in a similar weight at the end.

The 2008 German Championship

During the last weekend in September, the German Championship took place in Immenstaad at Lake Constance. It was jointly organized by the Germans and the Swiss and hosted twenty-one sailors from both countries and an additional one from France. During the first day winds were strong (around 17–21 kt), which are quite unusual for the region. During the second day, winds were very light and shifting, which are typical for Lake Constance, and sailing became quite tricky. Arne Semken dominated both days with his latest design, *Viperfish*, which was ready only one week before the Championship. Arne sailed a very constant series, with 5 first place finishes and 6 seconds out of 16 races in total. Although his new boat was designed especially for light winds, the performance of his *Viperfish* was also convincing in the stronger breeze. The next places were won by Steven Karalus (second) and Ulrich Burbath (third). Both sailed a downscaled *Vanquish* design, which was modified and adapted to the RG-65 by Ulrich Burbath. Ulrich sailed his carbon fiber prototype; Steven sailed a conventional fiberglass hull.

Arne Semken—2008 German Champion—and his Boat

Our new Champion, Arne Semken, lives in the Hanseatic town of Lübeck near the Baltic Sea. Before he became an architect he served an apprenticeship as a sailmaker. So he is familiar with big boats and small boats as well. He has designed and built boats for the RG-65 class for four years. During this time he became the most successful RG-65 sailor in northern Germany. In the past he sailed a very successful boat of his own design, the *Offset*, which he has now replaced by the new *Viperfish*.

In June he presented the lines of the *Viperfish* for the first time in the German RG-65 Forum (www.RG-65.de/forums). The boat is designed for 950 g displacement and can be equipped either with a conventional rig or a swing rig.

The hull of his prototype was laminated from three layers 80 g/sqm fiberglass in a negative mold. The keel fin was made from a 4.8 x 53 mm aluminum helicopter rotor blade with a 470 or 550 g lead bulb at its tip. These keel bulbs are made by Manfred Prothmann, who produces most of the keel bulbs for the RG-65 Class in Germany. Manfred's bulbs have a brass rod in the center and the surface is shaped on a lathe. So the ends are quite robust, and the surface is smooth and needs only a small finishing effort. The whole keel can be adjusted in its casing within 10 mm.

The deck is a flush deck, which is easier to laminate together with the hull as a single piece. It is a sandwich laminate to increase rigidity without wasting weight. All openings are roomy and covered with a lightweight adhesive film during sailing. The boat is equipped with a Hitec HS-65HB rudder servo and a Dymond D 300 MG for trimming the sails, which is of construction identical to the GWS IG-200 MG.

The mast is made from a 6 x 1 mm Excel carbon fiber tube and has no shrouds. It uses the maximum length allowed (1.1 m above deck). The main and jib booms are made from 3 mm thick carbon/foam sandwich. Fittings from Graupner's Racing Micro Magic are used for the gooseneck and vang.

During the championship, Arne sailed a conventional rig, but a swing rig is planned for the second prototype, which is laminated from two layers of 93 g/sqm carbon.

Acknowledgments

The author would like to thank Arne Semken and Reto Brunschweiler for their contributions to the article and Uwe Koch, Nina Pelka, Thorsten Krasselt, and Arne Semken for the pictures.





Details of the prototype: The deck openings are covered with an adhesive foil during sailing. The mast fittings are adopted from Graupner's racing Micro Magic. Photo by ©Arne Semken.



The keel and the mast can be moved by 10 mm to get the right trim for different weather conditions. Photo by ©Arne Semken.

The American Model Yachting Association's Ships Store Catalog: 1/2009

ITEM	DESCRIPTION OF ITEM	COST EACH	TOTAL COST	SHIP'S STORE
	PUBLICATIONS	US \$	US \$	
1	Reprint Book How to articles from past issues of M.Y. 68 pages	9.50		
2	Organizing Club & Conducting a Regatta Detailed treatise for Clubs. Matrix & Race Schedules. 65 pgs by Dick Hein	10.00		
3	In Stock: Magazine Back Issues Please Circle Number(s) wanted 94, 95, 97, 98, 99, 100, 101, 103, 108, 112, 113 > 119, 122, 123, 125, 126, 127, 128, 130, 131, 132, 133, 134, 135, 136, > 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155 >	6.00 7.00 7.00		
	Magazine Class Boat Combo's  Please Circle item(s) wanted Victoria Issue 112 & 132 > Getting Started I & II Issue 130 & 146 > Vintage Class Issue 96 & 122, EC12 Class Issue 115 & 145, 36/600 Class Issue 116 & 147 > ODOM Issue 99 & 124, Santa Barbara Issue 117 & 147, Soling One Meter Issue 120 & 148 > IOM Class Issue 107 & 114 >	10.95 11.95 15.95 15.95 19.95		
	Out of Print Reprints Magazine Back Issues 40, 41, 42, 43, 44, 45, 46, 47 48, 49, 50, 51, 52, 53/54, 55 56, 57, 58, 59, 60, 61, 62, 63, 64, 65 > 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91 > 92, 93, 96, 102, 104, 105, 106, 107, 109, 110, 111, 114, 115, 116, 117, 118, 120, 121, 124, 129 >	12.00 12.00 12.00		
4	Racing Rule Book The Racing Rules of Sailing – US Sailing Prescriptions Non-Members + 1.50 S/H	15.00		
5	Racing Rule Book The Racing Rules of Sailing –US Sailing Prescriptions Members + 1.50 S/H	12.00		
6	Quarterly Newsletter AMYA 1970 – 1975 Compiled Quarterly Newsletters (Issue #1 through #22) - 456 Pages	25.00		
	MODEL YACHT PLANS			
7	50/800 Marblehead Class -Bone 1X	30.00		
8	Star 45 Star 45 Class	18.00		
9	36/600 (Please Circle Which One) Blimp or Diegan	10.00		
10	AC Class (Please Circle Which One) Bahamut or Leviathan or Boogieman	18.00		
11	Window Decal AMYA Logo Decal 3 ½ x 4 1/2	4.50		
12	Sail # & Class Emblem 3"Hx½"W Vinyl Each Number or Emblem is 1.00 each. Sail # _____ Class Emblem _____ Colors Available: Black, Blue, Green, Red, Yellow	1.00		
13	Race Starting Tape Starting Tape with One & Two Minute Warning	7.00		
14	Race Starting CD (Please Circle Which One) CD with Two Minute or One Minute Warning	7.00		
15	Patch AMYA logo embroidered in 3 colors on white. Suitable for shoulder, jacket or shirt. 3" x 4"	5.00		
16	Lapel Pin AMYA logo 4 colors 7/8 x ½ inches	5.00		
17	Jerzee 50/50 Polo Shirts White, Black, Gold, Orange, Red, Royal Blue, Grey, Navy, Green (Sm-4X) With/Without Pocket	23.95		
18	AMYA Sandwich Bill Hat  AMYA Logo Self Fabric Closure w/Brass Buckle Royal Blue/White, Red/Black, Maroon/White, White/Navy, Navy/Khaki	12.95		
	SHIPPING & HANDLING			
			TOTAL	

VISA/MASTERCARD # _____ - _____ - _____ / _____ Expiration Date _____ / _____

If Paying By Check, Please Make Payable To AMYA ALL FUNDS IN US DOLLARS ONLY.

***** PLUS FOR SHIPPING & HANDLING *****

(\$0.01-\$12.00 - USD-\$3.00) (\$12.00 -\$49.99 USD-\$6.00) (\$50.00-\$99.99 USD-\$8.00) (\$100.00- \$199.99 USD-\$10.00) (\$200.00– UP-\$15.00)

Please Note: International Orders based on Post Office requirements may require additional Postage Once Processed

Ship To:	<i>Please Print</i>	AMYA #
NAME	E-Mail Address:	
ADDRESS	CITY	
STATE	ZIP	PHONE

NOTICE: WE DO NOT SELL MEMBERSHIP LISTS FOR COMMERCIAL USE. NO RETURNS, NO REFUNDS ON ITEMS SHIPPED.

Send To: A.M.Y.A. Ship's Store Please state Club Name and AMYA Club Number to qualify for discounted prices:

C/O Michelle Dannenhoffer

Club Rule Book Discounts: 15 - 25 @ \$11.00 each. 25 or more @ \$10.00 each.

P. O. Box 360374

Visit Online www.shipsstoremodelyacht.com

Melbourne, FL 32936-0374

(800) 420 - 3048

AMYA Membership Form

This application is for (please circle one): **New Membership** **Renewal/Former**

Please enter your membership number, if known for a Renewal/Former Member: _____

Contact Information: Please print or type your contact information:

Name _____

Address _____

City _____ State _____ ZIP _____ - _____

Country _____

Telephone _____

E-Mail _____

Types of Membership: Membership in the American Model Yachting Association (AMYA) is open to anyone who shares the goals of the organization. **Adult** membership includes Model Yachting magazine, eligibility for registration of model yachts in AMYA Sanctioned Classes, eligibility for entry into AMYA championships and other sanctioned events, one vote in the affairs of the organization and classes, and other benefits. **Family** membership provides a single Adult membership and eligibility in AMYA sanctioned events for all family members the same household. **Junior** membership is available to applicants under 19 years of age, but is otherwise identical to an Adult membership.

ADULT	\$25.00	<input type="checkbox"/>	Membership Dues
FAMILY	\$27.50		
JUNIOR Enter Birth Date: _____	\$12.50		

Postage: Normal Fourth Class delivery of Model Yachting magazine takes 4 to 8 weeks. **For faster delivery**, members residing in the United States may select USA First Class Postage Option. Members residing outside the USA must include an additional fee to cover the costs of mailing.

Secondary Address ("Snowbirds") (Requires USA First Class Postage and Snowbird Option): _____

Secondary Address Start Date: _____ (mm/dd/yyyy) Return to Primary Address Date: _____ (mm/dd/yyyy)

USA FIRST CLASS and SNOWBIRD Option	Must include	\$10.00	<input type="checkbox"/>	Additional Postage/Fee
CANADIAN Postage	Must include	\$10.00		
ALL OTHER COUNTRIES Postage	Must include	\$15.00		
NEW MEMBERS PROCESSING FEE	Must include	\$5.00		

Total Membership + Additional

You may renew by phone or email with a credit card. For checks and money orders, please fill out this form and return it with your funds, payable to "AMYA" to the Membership Secretary. Individual model yacht registration applications are made directly to the Class Secretary of your AMYA Sanctioned Class. An AMYA Yacht Registration Form is in the magazine. All funds must be in US dollars drawn on a US bank; **do not send cash.**

Credit Card Info: Please circle one: **MC** **VISA**

CARD NUMBER _____ - _____ - _____ - _____ EXPIRATION _____ - _____

SIGNATURE _____

Your Club: If you are a member of an AMYA Sanctioned Club, please enter your Club's AMYA Number and your Club's Name here:

CLUB NUMBER: _____ CLUB NAME: _____

Send your completed form to:

(Revised October 2008)

AMYA Membership Secretary
Michelle Dannenhoffer
P.O. Box 360374
Melbourne, FL 32936

Toll Free Phone: 888-237-9524

E-Mail: Membership@ModelYacht.org