



AMA Charter Club #128
<http://www.1hss.org>

HSS is the oldest AMA chartered R/C Soaring Club in the USA
Founded 1964

APRIL 2004

VOLUME 41

This Month's Featured Model – A 60 inch span electric B-24

This model is the creation of HSS club member Jerry Laux. This 60" wing span bomber is scratch built from a 1957 set of plans originally done by Frank Baker. Plans are available from RCM Magazine. It was intended for four TD .020's, hand launched, and rudder only control. Jerry's version uses four Speed 400 motors on 8 cells, and has



rudder, elevator, ailerons, and throttle. It weighs 64 ounces and has 460 square inches of wing area. The four motors are wired in parallel, and draw about 44 amps. With 5.5x4.5 APC propellers, they produce 30 oz. of thrust. Since this wonderful photo op (Courtesy of Rob Askegaard), Jerry has installed 3 bladed 5 x 3 props all painted up black with yellow tips. That really looks great!

Jerry had built all kinds of models as a youngster, but dropped out for a number of years. Since returning to modeling, he could not find planes he wanted as ARF's, so he went back to scratch building. You can always tell Jerry's planes by the excellent workmanship.

April Presidents Message

Good news! HSS is now an official club affiliate of the OCMA and that means that your HSS membership qualifies you to fly at El Toro should you so desire (after paying their field fees of course). The OCMA is a great group of OC clubs working to keep flying sites open for everyone to enjoy and they were very excited to see us finally come aboard. Inquiring minds may want to know that El Toro is an electric friendly field that has just recently added a park flyer area specifically for smaller planes and their normal flight line will take everything else you have in your hangar. While flying at Fairview Park is free, some pilots may have other RC interests or airplanes that would suit a larger field. Check out their great website for more details:

www.flyocma.com

APRIL 2004



PAGE 1

April Presidents Message (Continued)

If you missed our last club meeting you won't want to miss the next one. We have a guest speaker, Edson Hong from Fliton.com and he is going to show us some of the airplanes his company produces. He is bringing a Flubber, a Jumping Jack 3-D, and a 45" pattern plane called Splendour. We may be treated with a demo flight with the daylight savings time giving more light. With the popularity of park flyers growing, it is always fun to see what new and exciting products are hitting the market.

Karl Hawley and I have a meeting with one of the park administrators and will be hitting up the city to see if we can get a water faucet out by the shed to maintain some of the landing area. We will also be getting any other pertinent updates regarding the field.

Coming up April 18th is Earth Day in the park and HSS will be providing a booth display similar to what we have done before. They will be sending out volunteers (probably youth groups) through the park to round up trash with prizes for several categories. Hopefully they don't find too many broken airplane pieces (pick up your trash hint, hint). Usually there's free food and beverages and the railroad guys are having an open house with rides on their trains. I may have to take them up on this and you can too.

And finally, I recently went to one of Fred Hesse's flight programs at the Fountain Valley Boy's and Girl's club at Mile Square park to see what was happening and lend some help. I found that Fred has an amazing program going there and he has some great talent learning to fly. The kids seem to be really enjoying the opportunity to learn to fly and Fred has put together a wonderful program. I hope that the parents can appreciate the time and effort put in by Fred because it's about time we had more airplane moms than more soccer moms. I plan to give my help when I can and I'm sure Fred would appreciate any help from other members he can get. Any excuse to go out flying is a good one!

Troy Peterson,

President - Harbor Soaring Society

March 2, 2004 Harbor Soaring Society Meeting Minutes

Meeting was called to order by President Troy Peterson. Seventeen members and three officers were in attendance.

Visitor Paul Whitely was introduced. He began flying in the early 70's but had dropped out until recently. He is a member of several clubs, and came by to find out what HSS was about.

Troy Peterson gave a report on the Community Expo and Fun Run held at Fairview Park on Saturday 7 Feb 04. He said that two council members came by and were pleased to see our participation. One council lady was struck by the size of Dennis Brandt's 20' Grunau 2b giant scale glider, and nervously asked if we flew that plane here at the park. Troy was quick to assure her that no, that plane needed a paved runway and was flown at El Toro. The local TV station spent a lot of time filming our booth and static display. Troy will try to get a copy of the tape to show at meetings, and possibly on our web site. He closed by saying that HSS contributed \$40 to the park fund.

Karl Hawley says the club has a savings account that is in jeopardy of being taken over by the bank because of lack of activity. Roger Lackey and Steve Hendry will close the account. Members voted approval.

Troy then gave a report on his meeting with Orange County Modeling Association (OCMA). We are now members, which gives us the right to send a delegate to each meeting who will participate in voting on OCMA policy. HSS members may now join and fly at El Toro and other affiliated flying sites.

Larry Tuohino suggested that HSS have a booth at the Orange County Fair, in order to familiarize the public with the club and attract new members.



March 2, 2004 Harbor Soaring Society Meeting Minutes (Continued)

The Southern California Soaring Club competition held Sunday 29 Feb 04 was a great success. We had about 60 entrants (including world class pilots Joe Wurtz, Daryl Perkins, and Larry Jolly), and proceeds netted the club \$554. Tom Copp is having the trophies made as a favor which will save the club hundreds of dollars. Thank you Tom.

Jim Parsons commented that Carol Proctor who runs Friends of Fairview Park has invited us to participate in the Lyons Club Fish Fry on Saturday and Sunday June 5th and 6th. She would like us to share a booth with her, and bring a static display of planes. This was agreed to, so we will need a few volunteers to attend and pass out information about HSS.

Karl Hawley would like to get water provided to our facility and feels the city is willing to provide labor and materials so we can promote grass growing on our landing area. Troy and Karl will talk to the city.

Karl wants to set up a 12 volt source external to our shed so that electric flyers may run their DC chargers. The intent would be to give members access with keys. We need someone experienced to assist in the planning of this feature.

Jim Hansen and Karl will obtain city permits (cost: \$25 each) for our Electric Fun Fly on Sunday May 23rd, and our Over the Edge bent wing glider contest on Saturday June 19th.

Mike Gaczowski has volunteered to collect all club documents and convert them to electronic form so that they may be archived on our web site. A preliminary list includes the following:

Club Bylaws, completed charter application forms, the AMA charter, this year's member roster, member frequency usage, club equipment inventory (like winches and mowers), Adopt-A-School inventory, possibly annual financial reports(?), approved field rules, Costa Mesa City Council permits, maybe the meeting minutes, and any other items suggested by club members.

Larry Tuohino gave a presentation on full size soaring, the Soaring Society of America (SSA), glider crewing opportunities, and a new soaring magazine available on the web at www.socalsoaring.com. He stated that the Vintage Glider event will occur at Torrey Pines on March 13 and 14.

Jim Hansen showed two of his new stunt electric planes. Also, a discussion on Lithium-Poly batteries included a warning to take care with the small aluminum tabs that have a second (solderable) tab spot welded on. Tape these tabs to the cell so they cannot flex and break. Repair is not possible. A number of members commented that the Dymond batteries were rather poorly made, and to be careful.

The meeting was adjourned at about 9 PM.

Respectfully submitted for Don Ramsay (Secretary) who was ill,

Fred Hesse

Additional Meeting Notes

Club Shirts - Contact Karl Hawley if you would be interested in getting a club shirt. Polo shirts will be about \$38, and T-shirts will be less (about \$12 to \$14). The proposal is for an embroidered logo on the front and a three-color silk screen on the back.

April 6th Meeting Notice

The next meeting will be Tuesday April 6th, 2004 at the Irvine Water District. The address is 15600 Sand Canyon Drive. There are exits for Sand Canyon Drive on both the 5 and 405 freeways.

The executive council meets at 7:00 PM, and the business meeting starts at 7:30 PM. We had 20 members present at the last meeting. There are lots of things being planned, and we need your help.



Coming Events For 2004

Sunday	March 28	2 nd SCSC thermal duration competition, winch launch, SWSA, Las Palmas Middle School, Covina, www.swsa.8K.com for map and field photos.
Sunday	April 4	Fourth HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Tuesday	April 6	HSS monthly meeting, 7:30 PM, at the Irvine Water District offices. Address is 16500 Sand Canyon Avenue, in Irvine.
Saturday	April 17	SSJSS Bent Wing contest, Bakersfield CA. See flyer below.
Sunday	April 18	Fairview Park Earth Day. HSS will have a booth and give flying lessons.
Fri-Sun	April 16-18	CVRC 3 rd Spring Aero Tow (Giant scale), Russell Pond club field, Visalia
Sat-Sun	April 24-25	RCX 2004, Radio Control Expo, Anaheim Convention Center, Anaheim CA.
Sat-Sun	April 24-25	Los Banos scale slope soaring & aero tow. Info: www.soaringissa.org .
Sunday	April 25	3 rd SCSC thermal duration comp. El Dorado Silent Fliers, Long Beach CA.
Sunday	May 2	Fifth HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Tuesday	May 4	HSS monthly meeting, 7:30 PM, at the Irvine Water District offices. Address is 16500 Sand Canyon Avenue, in Irvine.
Sat-Sun	May 1-2	CVRC Bent Wing Competition, Russell Pond club field, Visalia CA.
Sunday	May 23	Electric Fun Fly sponsored by HSS. All electric planes. Open to all AMA members in Southern California. Info: www.1hss.org .
Sunday	May 23	4 th SCSC thermal duration competition, winch launch, SWSA, Las Palmas Middle School, Covina, www.swsa.8K.com for map and field photos.
Tuesday	June 1	HSS monthly meeting, 7:30 PM, at the Irvine Water District offices. Address is 16500 Sand Canyon Avenue, in Irvine.
Sunday	June 6	Sixth HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Sat-Sun	June 5-6	Lyons Park Fish Fry. HSS will have a booth and static display.
Saturday	June 19	Over The Edge Bent Wing thermal duration competition, sponsored by HSS. Open to all AMA members in Southern California. www.1hss.org .
Sunday	July 4?	Seventh HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Tuesday	July 6	HSS monthly meeting, 7:30 PM, at the Irvine Water District offices. Address is 16500 Sand Canyon Avenue, in Irvine.
Sat-Sun	July ??	Inland Soaring Society RES competition Riverside CA.
Sunday	July 25	5 th SCSC thermal duration competition, HSS, Fairview Park, Costa Mesa.
Sunday	August 1	Eighth HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Sunday	August 29	6 th SCSC thermal duration competition, Thousand Oaks Soaring Society.
Sunday	Sept 5	Ninth HSS thermal duration contest for 2004. Fairview Park, Costa Mesa.
Sat-Mon	Sept 4-6	Vintage Glider Meet (Info will be provided by Larry Tuohino).
Sunday	September 26	7 th SCSC thermal duration competition, Inland Soaring Society, Riverside.
Sat-Sun	October 2-3	CVRC Fall Glider Festival, Russell Pond club field, Visalia CA.
Thurs-Sun	October 7-10	Hobby Vision Show, Sands Expo and Convention Center, Las Vegas NV.
Sat-Sun	October 16-17	CVRC 3 rd Fall Aero Tow (Giant scale), Russell Pond club field, Visalia CA.
Sunday	October 24	8 th SCSC thermal duration competition, Torrey Pines Gulls, Poway.

SOUTHERN SAN JOAQUIN SOARING SOCIETY (SSJSS)

6th ANNUAL BENT WING CONTEST

LOCATION: Earl Warren Junior High School, 4615 Mountain Vista Dr., Bakersfield, CA

DATES: April 17, 2004 (Saturday)

EVENT: Precision duration thermal contest, for polyhedral sailplanes. Wing construction must be built-up, no foam. Rudder, Elevator, Spoiler controls only. The Ava and Topaz meet these requirements. Arresting devices, skegs, teeth, etc are allowed.

If you have any questions, please contact the Contest Director, Jerry Tonnelli, at
(661) 832 - 6048 (evenings).Work (661) 327 - 4778 or jobpdi@aol.com.

Results of First SCSC Competition

Tom Copp was Contest Director of the first Southern California Soaring Club competition hosted by HSS on February 29, 2004. The results are shown below. Check out some of the world class pilots who showed up!

EXPERT CLASS

Name	Ranking	Av Sec off	Av Land	LND thOUT	Normalized	RAWTTL
Joe Wurts	1	0.75	95.25	0	1000	3351
Larry Jolly	2	0.75	93.50	0	997.9110713	3344
Michael Smith	3	1.00	91.75	0	992.8379588	3327
Tom Copp	4	1.75	87.75	0	979.1107132	3281
Daryl Perkins	5	0.25	69.75	0	975.5296926	3269
Fred Sage	6	0.75	67.50	0	966.8755595	3240
Edgar Vera	7	5.00	74.75	0	894.9567293	2999
Emanuel Gomez	8	4.50	40.50	0	889.8836168	2982
George Spitzer	9	5.50	38.50	0	875.5595345	2934
Mark Browning	10	7.50	0.00	0	805.7296329	2700
John Brown	11	9.50	17.25	0	802.4470307	2689
Tom Watson	12	5.00	59.75	0	787.5261116	2639
Dan Fink	13	7.00	36.75	0	766.0399881	2567
Patrick Dionisio	14	3.75	65.25	0	749.3285586	2511
Jim Sneed	15	9.75	45.25	0	713.5183527	2391
Steve Giron	16	8.50	59.00	0	685.1686064	2296
Mike Lee	17	17.75	45.25	0	468.815279	1571
Kevin Anderson	18	2.25	0.00	0	390.9280812	1310
Mark Taylor	19	4.00	24.00	0	368.8451209	1236
Eric Farmer	20	7.25	0.00	0	331.2444047	1110
Craig Greening	21	2.50	0.00	0	268.5765443	900
Rick Shelby	22	2.25	0.00	0	62.66786034	210

INTERMEDIATE CLASS

Name	Ranking	Av Sec off	Av Land	LND thOUT	Normalized	RAWTTL
Keith Millett	1	1.25	64.75	0	1000	3234
Lex Mierop	2	6.00	55.50	0	959.1836735	3102
Gary Filice	3	7.25	61.50	0	958.8744589	3101
Michael Stern	4	8.25	58.75	0	949.2888064	3070
Jared Stalls	5	10.25	67.25	0	947.4335189	3064
Craig Townsend	6	7.00	44.00	0	938.7755102	3036
Bill Malvey	7	6.00	36.75	0	935.9925788	3027
David Butkovich	8	13.75	26.50	0	875.3865182	2831
Casey Adamczyk	9	13.00	42.50	0	868.8930118	2810
Terry Throup	10	6.00	45.00	0	822.5108225	2660
Michael Morjoseph	11	12.25	49.75	0	820.6555349	2654
Peter Leduc	12	16.75	0.00	0	700.3710575	2265
Eber Graham	13	5.00	49.00	0	679.0352505	2196
Bob Pope	14	10.25	0.00	0	338.5899814	1095

SPORTSMAN CLASS

Name	Ranking	Av Sec off	Av Land	LND thOUT	Normalized	RAWTTL
Jerry Millett	1	4.40	60.00	0	1000	3130
Anthony Brooks	2	3.40	52.75	0	998.7220447	3126
Steve Vasquez	3	7.40	49.50	0	962.6198083	3013
Steve Underwood	4	6.00	2.00	0	913.0990415	2858
Tak Takayama	5	16.80	46.75	0	852.0766773	2667
Albert Funfstuck	6	26.60	81.50	29	786.2619808	2461
Steve Sallenbach	7	20.80	77.50	0	699.6805112	2190
George Gomez	8	1.80	17.50	0	646.9648562	2025
Andy Thomet	9	23.40	88.75	0	629.3929712	1970
Dick Rosenthal	10	13.60	21.00	0	365.4952077	1144
Jeff Gortatowsky	11	1.40	0.00	0	52.71565495	165

RES CLASS

Name	Ranking	Av Sec off	Av Land	LND thOUT	Normalized	RAWTTL
Dan Fink	1	2.75	38.75	0	1000	3100
Larry Jolly	2	14.50	40.25	0	861.6129032	2671
Bob Swet	3	13.00	75.25	0	851.9354839	2641
Ross Thomas	4	24.25	23.50	0	841.6129032	2609
Larry Enger	5	8.75	8.00	0	792.5806452	2457
John Barr	6	17.00	35.25	0	742.2580645	2301
Sameer Vohra	7	9.00	51.00	0	685.1612903	2124
Dan Borer	8	7.50	8.50	0	672.2580645	2084
Edgar Vera	9	11.00	17.25	0	628.7096774	1949
Chris Adamczyk	10	14.25	50.50	0	553.8709677	1717
Gene Hayes	11	9.25	18.75	0	416.1290323	1290
David Judson	12	5.00	40.75	0	407.4193548	1263
Carl Hawley	13	2.25	44.00	0	397.0967742	1231
John Krug	14	19.25	17.50	0	253.2258065	785
Tony Corrates	15	11.50	6.75	0	160.3225806	497



HSS Contest Report

The following are the results of the monthly thermal duration contest for March 7, 2004.

<u>PLACE</u>	<u>NAME</u>	<u>RAW</u>	<u>NORM</u>	<u>PLACE</u>	<u>NAME</u>	<u>RAW</u>	<u>NORM</u>
<u>Expert</u>				<u>Expert</u>			
1	Larry Jolly	3753	1000	6	Mark Taylor	3604	960
2	Jim Sneed	3710	989	7	Mark Browning	3588	956
3	Tom Copp	3699	986	8	Curt Nehring	3504	934
4	Dan Fink	3614	963	9	Mark Puchelski	3366	897
5	Jim Parsons	3613	963				
<u>Sportsman</u>				<u>Sportsman</u>			
1	Tak Takayama	3599	1000	4	Chris Adamczyk	3355	932
2	A. Frankenberg	3511	976	5	Jeff Gortatowsky	1888	525
3	Steven Vasquez	3388	941				
<u>3 Function</u>							
1	Ross Thomas	3621	1000				
2	John Krug	688	190				
3	Karl Hawley	0	0				

HSS Competition To Date

<u>EXPERT</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>	<u>SPORTSMAN</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>
Tom Copp	978	975	986	2939	Casey Adamczek	951	934	932	2817
Mark Browning	998	931	956	2885	Arnie Frankenberge	951	831	976	2758
Jim Parsons	957		963	1920	Steven Vasquez		591	941	1532
Jim Sneed		615	989	1604	Tak Takayma			1000	1000
Ben Clerx	0	1000		1000	Jeff Gortatowsky			525	525
Ross Thomas	981			981					
Dan Fink			963	963	<u>3 FUNCTION</u>	<u>Feb</u>	<u>Mar</u>	<u>Total</u>	
Mark Taylor			960	960	Ross Thomas	1000	1000	2000	
Kevin Andersen		504		504	John Krug	908	190	1098	
					Karl Hawley	913	0	913	
					Chris Adamczyk	166		166	

Additions to the San Diego Winter Electric Fun Fly Report

Those of us with that very nifty Triton Charger/Discharger from Great Planes/Electrifly that says it works for Lithium cells can rest assured that we don't have to go out and buy a special charger. The charge sensing algorithm works for Lithium Polymer. The only problem is that it may take longer to charge the larger batteries.

A brief discussion with the owner of Castle Creations, who produce some of the best brushed and brushless speed controllers, revealed the following. He does not include an On/Off switch with his product, because he considers it one more source of failure. To turn the system off, it has been recommended to put a switch in the +5V line going to the receiver. This prevents any stray signal turning on the motor. However, he says the speed control electronics does remain on, and thus draws about 15 mA from the battery. Therefore, be sure to develop the practice of leaving the battery to any speed control containing a battery eliminator circuit (BEC) **UNPLUGGED** until you are ready to use the system. This is especially so for Lithium cells which are destroyed when discharged to zero volts.



Adopt-A-School Status Report for February 2004

The big news for this month is that our Youth Education Stipend (YES) grant proposal, which was submitted in late December 2003, was approved by the Education Committee of the AMA. The club has just received a check for \$500, which is to go towards our Adopt-A-School program. The funds are to purchase a radio system that will be used for new and recently donated aircraft, a copy of the RealFlight G2 Simulator, and expendables like props, gears, and speed controls. This is a one time grant from the AMA, and is very much appreciated.

In order to run the RealFlight G2 Simulator, a personal computer is needed. If any one has an old PC that is not being used, and it meets the following requirements, we would be delighted to take it off your hands.

Minimum Requirements: Intel Pentium 300 MHz, Windows 95/98/2000/ME, DirectX 8.0 compatible video and sound card, 3D accelerated video card with 8 MB RAM, 32 MB RAM, 500 MB hard drive space, 4X CD-ROM drive, 15 pin game port, 15 inch monitor.

Preferred Requirements: Pentium 600 MHz, 3D accelerated video card with 16 MB (or more) RAM, 64 MB RAM, USB interface, 17 inch monitor.

This system would be primarily for school children, but will also (in the near future) be made available to adult flying students, and club members. The components need to be in working condition. We can't afford to fix it.

The model aviation classes are continuing at Fulton Middle School in Fountain Valley with great success. The ground school classes are complete, and every one has received their AMA licenses. Flying every Tuesday in the school yard is working nicely, and with a steady group of 4 to 5, each student is getting many flights.

The Thursday classes at the Boys and Girls Club of Huntington Valley are continuing with the help of Will Conrad. Usually we have 6 to 10 students, which reduces the amount of individual flight time that each student gets. However, we are getting a better turn-out on Saturdays, as can be seen below. The Christmas season brought planes and radio systems to several students. We are spending a number of days helping get the planes assembled and radios installed. Now if we can just get to the part of the training where the student repairs his own plane, things will be a little less hectic.

The photo at right shows Boys Club members standing from left to right, Jeff Stewart, Matt Jacquot, Josh Garcia, (Instructor: Fred Hesse), and seated are Alan Mercado, and Jacob VanHoepen. The TG-3 glider is courtesy of Bob McKenzie. It got quite a workout this day. So did the kids. After about 2 hours on the high-start, the bluff developed into ideal slope soaring conditions. Using a 2 meter Paragon donated by Rick Briggs, both Matt and Josh were introduced to the thrill and ease of slope soaring. Each was able to make 15 minute flights.

Our exposure at the Park Expo opened two new opportunities for club public service. The following visitors showed interest in our Adopt-A-School program.



Adopt-A-School Status Report for February 2004 (Continued)

Greg Wotta, a science instructor at Davis School in Costa Mesa would like a 1-2 hr model lecture (and possible flight demonstration) on a Wednesday afternoon, somewhere around 18 Feb – 3 Mar. This is being delayed slightly.

Dan Monahan, Branch Director for the Boys and Girls Club of Costa Mesa, Westside Branch, stopped by. He knew John Pham, Manager at the Boys and Girls Club of Huntington Valley, and was interested in having our Adopt-A-School flying classes at is branch. They are located at 661 Hamilton St. Costa Mesa CA 92627. We will contact Dan in the next few weeks..

Donations to HSS Adopt-A-School Program

The generosity of HSS members and friends has been remarkable. This last month has brought in two major contributions. Early in February, Larry Enger a long time member and soaring competitor, donated three planes and quite a bit of radio equipment. One of the planes is a neat Mini Bird of Time with servos, a Speed 400 motor, ESC, and folding prop. This plane was just about ready to fly. With the addition of a new battery and swapping in a receiver, this plane is already seeing service. The kids really enjoy flying a nice plane (after the foam trainers we start out with).

The following week, Dennis Brandt brought in an unbelievable array of equipment, donated by Rick Briggs of giant scale glider fame. Among the six aircraft were a 2 meter Paragon, a 2.5 meter Sula Bird, and an unbelievable 3 meter semi-scale Carrera glider with all the servos. He also donated three transmitters and the receivers to go with them.

We have a donation of a complete Airtronics Aquila Sailplane kit (99" span) that we would like to sell. It is a classic, and commands over \$100 on E-Bay. This kit is in perfect shape with all hardware, canopy, wood and plans. Price is \$100. Club members get first chance. Contact Fred Hesse (Last page for details).

We truly appreciate these donations, and are now challenged to bring our students up with the capability to fly these magnificent planes. Thank you all.

Used Equipment for Adopt-A-School

Anyone wishing to sell used radio or aircraft that are too valuable to give away should contact Fred Hesse (Adopt-A-School instructor). We have a steady market of young students that would appreciate purchasing used planes and equipment for a reasonable price.

Plane Rap Archives (Now almost 30 years !)

Many thanks to Frank Chasteler for bringing in 9 years of older newsletters. Frank, who has been with the club about 30 years, brought in all of 1975, and 1977 through 1984 issues. Wow! Back then, Frank was very active as an officer in many club positions. He was also one of our best pilots, judging from the contest reports. At the time, the newsletter was simply titled "Newsletter", and often consisted of one or two pages. It's really neat to look back 29 years and read about the activities and technologies of that era. Frank also provided clues to a number of missing issues. They were never published. Again, if any one has any part of the issues listed below, we would love to add them to our archives (or at least a copy of what you have).

1964 through 1974: All issues missing.

1994: Nov missing.

1999: Dec missing.

These archives are open to all members. Copies can be made upon request, or issues may be checked out for temporary use. If you have any of the missing issues, contact Fred Hesse (information on page 12).



Plane Rap Classified Ads

Planes for sale: Contact Rudy Calvo AMA 97707, 24 Summerwind, Irvine, CA 92614 Phone (949)786-9783.

#1. Elipsoid electric glider. 110 inch span, rudder, elevator, ailerons. Receiver and servos in place. Flown several times. Excellent shape. Red transparent wing and tail feathers. Install your own motor (was a Phasor 15-4) or add nose ballast for slope or hi-start. Asking \$400 OBO.

#2. XL3200 electric glider, 3.2 meter span, rudder, elevator, ailerons, flaps. Receiver and servos in place. Flown several times. Excellent shape. Red transparent wing and tail feathers. Install your own motor (was a Phasor 30-3) or add nose ballast for slope or hi-start. Asking \$550 OBO.

#3. Great Planes Spirit Elite electric glider for Astrflight 020 planetary motor or equal, rudder, elevator, ailerons, flaps. All servos in place. Factory white fiberglass fuselage. Multi-color wing and tail feathers. Looks great. Need motor, BEC, battery, receiver. Never flown. Add motor or add nose ballast for slope or winch. Asking \$400 OBO.

Ready to Fly Airplanes: Larry Enger (909) 245-2521

60" Thermic electric glider, scratch built, silked. Very easy to fly. With 2 CS 21 servos \$30. Add speed 400 with folding cam prop and spinner and Jeti motor mounted speed controller with Dean's Ultra connector. \$75.00

Kits:

1. Trick RC Zagi LE slope wing. \$20.00
2. The Pup, T-tail, low-wing wood kit designed for .020 freeflight. Would make into a cute electric. \$10.00.
3. Wattage Sopwith Camel, foam, complete with geared 370 motor. \$40.00.
4. Sig Wonder, designed for gas 09-15. Makes a good electric conversion. \$30.00.
5. Electric Zagi 400, complete new in the box, includes cores, speed 400 motor, propeller, 15 amp speed controller, and 8 cell 500 mah battery. \$85.00
6. Need a large wood kit or a nearly built big tow tug and engine? Give a call.

Flight School

In order to fly model aircraft, one must build and repair them. Thanks to Jim Parsons and his presentation on the use and handling of epoxies at the February meeting, we are more aware of the problems with allergies and rashes caused by epoxy. There has been a lot of concern expressed about epoxy and carbon fiber on one of the best bulletin boards around, (Allegro-Lite@yahoo.com) . This is the bulletin board that discusses building Allegro hand launched gliders, Bubble Dancers, and other remarkable designs (Many authored by Dr. Mark Drela). Here are a number of comments:

From: Rick Walba rawmr@yahoo.com : Pathological exposure to glass dust is referred to as silicosis. It takes considerably more exposure than a hobbyist is likely to get. I don't know about kevlar, it certainly has not received the kind of rap that carbon fiber dust has.

As I understand, carbon fiber becomes very toxic when exposed to the products of combusting epoxy, which happens with a high-speed cut-off wheel. The dust from hand sanding, though definitely having the potential for sensitizing, is less toxic. You should wear gloves, mask and long sleeves, and have a damp rag handy to mop up often. I do use a Dremel cut-off wheel occasionally, but over a wet sink, with the wheel turning to throw the dust down.

From: J.S. Decker spamhole@monkeytumble.com

1. Just to be clear, any type of small particles can be bad for your health. Small particles in any significant quantity that get in your lungs can be detrimental for your health, whether they come from carbon fiber (CF), Fiberglass (FG), Kevlar, polystyrene foam, or balsa dust. People who smoke are also more susceptible to having problems.



2. Wet sand where you can. When working with composites, particularly carbon fiber, I look for ways to shape the composite by wet sanding or cutting wherever I can.
3. Perform dry sanding tasks, e.g., rounding the carbon fiber corners of "Drela spars", outside if possible.
4. Use a filtered vacuum for dust collection when using power tools. I clamp the hose of Shop-Vac to collect as much dust as possible when using cutting carbon fiber tools like the Dremel cutoff wheel.
5. Make big "particles" first if possible. When I do things like hog down gross flashing, I start with a tool, e.g., a Surform (file or rasp), which cuts small "chunks" off, rather using the power sanders and making a lot of dust.
6. Plan ahead and sand less. The more I get into composite construction, I find that I can reduce or eliminate sanding composite materials. When bagging carbon fiber skins on to foam cores I cut the carbon fiber so that the edge of the material lands on leading edge material and doesn't overhang. I am to the point with carbon fiber wings where I can peel the Mylar, trim the trailing edge with a knife and do a little touch up wet sanding.
7. House keeping helps. Wipe up the dust you create so that you do not re-suspend or track dust somewhere else to be re-suspended. When cleaning up composite dust, I wipe up carbon fiber dust with a wet paper towel and I use a filtered Shop-Vac for balsa, FG, or Kevlar dust.

From: Richard Knott South Africa : Tape the carbon laminate along its full length to your cutting surface with a lengthwise strip of masking tape, i e the carbon is totally hidden under the tape. Run your fingernail along the edges of the carbon strips to force the tape into the corners between the carbon and your cutting surface so you can clearly see the edges of the carbon through the tape. Cut through the tape and carbon together in several passes with a 'snap-off' knife. If you like, spray a thin coat of the ubiquitous 3M77 / 3M75 spray adhesive over the tape before cutting. A coat of 3M75 under the carbon also helps.

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(SEE PAGE 4 FOR MORE INFORMATION)**

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