

<u>MAY MEETING MINUTES</u>

The May meeting started at 7:45PM with Andy Sanders presiding. No new faces or visitors were noted. The April minutes were accepted as written. Frank Chasteler gave the treasurer's report covering such items as checking and savings account balances, expenditures, sales of club shirts, and memberships; the treasurer's report was accepted as read.

Ross Thomas gave a report on future contests. The SC2 contest will be CDed by Ben Clerx on Sunday May 23. The Astro Champs will be held the 29th and 30th. June 19th and 20th will be the North/South Challenge at Visalia; teams will be made up of the 12 highest scores from each area. The winners will be competing for a new Thermal Eagle glider.

Pete Young thanked all those who help in making the Newsletter and described two articles on foam cutting and wing bagging (refer to last month's Newsletter for specifics).

Frank gave a report on the HSS hats on order; they should be here in 2

MEETING LOCATION

Lakes at Seabridge Condos. On Adams Ave. in Huntington Beach. Turn right at the first traffic light heading East from Beach Boulevard. You will need to check in at the gate. Tell the guard you are there for the HSS meeting. If there are any problems, call 969-1524

weeks and will self for approximately \$10. They will be white corduroy with the standard club logo.

Dave Nemecek asked about the status of the flying field digging and its estimated completion date. Frank said that the digging underway had an expected completion in 6 months to a year.

A general discussion followed about people landing their aircraft, and then loitering around, making it difficult for others to land safely. Ross talked about (continued, page 2)

H.S.S. BOARD MEMBERS

President: Andy Sanders	(714) 751-9235
Vice President: Pat Scheer	(714)744-3375
Secretary: Woody Grosvenor	(714) 969-1524
Treasurer: Frank Chasteler	(714) 545-2185
Contest Coord: Curt Nehring	(714) 592-2105
General Dir: Ross Thomas	(714) 638-0705
Newsletter Ed: Pete Young	(714) 892-3473

The Harbor Soaring Society newsletter is published monthly. Editorial comments and articles are welcomed. Please provide all material for consideration by the 15th. of the month prior to publication. Wordprocessed material is appreciated (any major IBM compatible disk format and program). Handwritten material must be clear and legible. The editor reserves the right to edit all material. Submissions should be made to Pete Young in person or by mail to: 6592 Belgrave Ave., Garden Grove, CA 92645.

May Meeting Minutes. continued

more and more people landing near the winches. A little common sense, courtesy, and safety consciousness will go a long way to relieve these problems.

Marvin Pass thanked everyone for the help and courtesy shown to him by all the club members.

The business meeting closed at 8:05PM. Andy Sanders introduced Greg Chun of GRECO Technologies. Manny Tau had contacted Greg and asked him to show his products and let the members know more about his business.

Greg began with the history of composite molding for glider wings. The Europeans have considerable experience on the molding processes, materials, etc. The process of painting and molding complete composite wings was explained in detail. A large carbon fiber, Kevlar, and Rohacell laminated spar was shown - this is used for F3B applications. Molded planes are task oriented, so each type has its own strengths depending on the weight, shape, airfoil, etc. depending on the flight tasks. One of the problems encountered with fast gliders is flutter and Greg talked about ways to avoid flutter. He recommends light weight extremities (front, rear, and wing) to offset tip stalls and make for crisper turns.

Different materials were discussed with their advantages, such as obechi versus balsa. Balsa wood is getting very difficult to purchase in the high qualities demanded by competitive gliders. European companies send experts to Ecuador to select the premium logs, a strategy that American companies cannot justify.

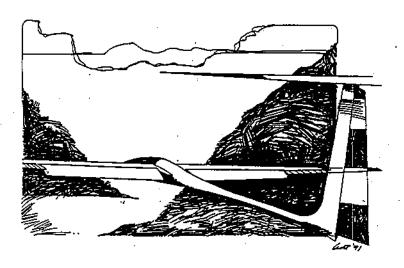
GRECO will be importing a series of specialized glider servos from Germany

which have fiberglass cases and very robust gear trains. Availability will be later this summer.

Greg provided a "show and tell" of his molded MODI, thermal MODI, and duration MODI. He also brought a 15 oz hand launch glider with flaperons driven by a computer radio.

Don Edberg brought along a Futaba 9ZAP radio system for which he is producing the operating instructions. The 9ZAP is designed from the very beginning for glider pilots and has a multitude of user assignable mixes, switches, knobs, and functions. Memory is available for 10 models, storable on a removable module. Frequencies are changeable via synthesizer. Outputs can be programmed with ramps, break points, and time delays. Built-in timers can count up or down. The TX run time is approximately 3 1/2 hours per charge. The 9ZAP radio system is available now from Futaba or from distributors.

- Woody Grosvenor, Secretary



M

... at the April SC2 hosted by North County Clouds, Don Edberg, first overall! Other HSSers doing well were Bob Sliff, Duane Gibbs, Mike Aguirre, Ross Thomas, and Jim Parsons... at this point in the season, HSS is battling it out with PSS, TPG, and EDSF in a tight season points race...new planes at the field: Al Cron's Falcon 880, Pete Young's NSP Alcyone (second one!)... Manny Tau will be selling "rubber ducky" antennas, price about \$25, more details forthcoming... ...FLASH: at the May 16 HSS Monthly for 2 Meter ships, Nick Buzolich with his Shadow 2M scores one of the day's few long flights and buries his competition - attaboy, Nick! Overall, Mike Aguirre tops a tough 2M field and places first with his Agnew Banshee - read Mike's summary comments on the Banshee below...

THE AGNEW BANSHEE

by Mike Aguirre

When I decided to retire my 2M Gnome, the question came up - what should I fly in 2 meter as a replacment? Several designs came to mind - Falcon 600, Shadow 2M, Accipiter, and many more. But the one that stuck in my mind was Brian Agnew's Banshee. This plane won 2 meter and Standard class, and placed third in Unlimited at the 1992 LSF Nats. But I had yet to see a Banshee flying!

Being one to try new things, I called Brian to determine the kit's availability. He explained that the kit could be delivered in ten days. Well, that sounded good so the deal was made. Ten days later the kit arrived. Everything in the kit was of the highest quality. The

wings are pre-sheeted obechi over foam with the dihedral pressed in. The fuselage was virtually free of any pinholes which made finishing a snap. All the hardware was top grade and even includes the wiring for the wing servos, a small but nice feature. Building time is minimal due to the manufacturer's labor. It took me about 3 weeks part time effort to get the plane finished the way I wanted it to come out.

After one hand launch it was time for the winch test. According to Brian this plane can handle big zooms with its Dave Squire's 9/32" wing rod. So with the pedal to the metal, my Banshee climbed right out to the top of the line and zoomed off the top in a climb that I could not believe - it was quite impressive. Approximately 2 trim flights were needed then it was 20 minute air time on a beautiful morning with only Steve Fink's Tango and my Banshee sharing the early morning lift. The plane's airfoil is an E387 which really covers the sky in a hurry and can carry a lot of ballast on those windy days - it slopes well, too! My plane weighs approx. 44 ozs and that gives a wing loading of 11.02 ozs/ft2. At the recent Rose Bowl Soaring Festival, Banshees outnumbered all other designs in the 2 meter class, and I believe 2 of them placed in the top 5.

Overall I have found my Banshee a joy to fly with its ability to cover sky quickly, thermal even in the smallest bumps, sky out, and come down in a blistering hurry to slow down to a snail's pace for those crucial spot landings! Please give Brian a call if interested in the plane, he advertises in RCSD and other publications. Or ask me for any info I can help you with, the pleasure would be mine.

IMPROVING CONTEST PERFORMANCE BY LIMITING YOUR HANDICAPS

by Roger Lackey

Every contest flier has at one time or another asked other fliers questions regarding improving contest performance and has no doubt received a greater variety of answers than you could imagine. A theory that I have developed over the last couple of years deals with removing the barriers that may inhibit our potential or gives an advantage to the opposition. Below are several tips that will assist you in "being on the same page" as many of the expert pilots and hopefully will contribute to improving your contest standings.

- * PROGRESS TO AN OPEN CLASS AILERON PLANE. If the competition is flying "high-tech" planes and you are not, you are giving up a lot of speed, distance, and landing accuracy potential. An aileron plane with its responsiveness gives you the ability to go WHERE you want to WHEN you want to, unlike most polyhedral planes.
- * DON'T FLY A 2 METER PLANE IN AN OPEN CONTEST. Although it may be fun to fly a 2 meter in a contest, when pitted against open class planes, the disadvantages are just too great. Big planes fly better, and while it may not matter when the lift is great, when the conditions get bad you need to be able to search as far as possible for lift and be as unaffected by sink as possible by utilizing a superior L/D and speed potential.
- * HAVE YOUR EYES CHECKED. This is something I feel is easily overlooked. I

had a friend with a Falcon 880 who just wouldn't let the plane travel in search of lift like it could, creating a huge handicap. Despite the Falcon's performance potential, he would continually search the same air even though it wasn't going up. It turned out that while he wasn't flying the plane to its limits, he was flying to the limit of his vision! Once he began wearing glasses he was able to fly it out of MY vision range. Test your eyes against those you fly with and if there is any doubt, have them checked (your eyes, not your fellow fliers), and get glasses if necessary. You may want to experiment with different tints for sunglasses as well. Different colors seem to work better for different people.

*COLOR YOUR PLANE FOR VISIBILITY. Again this deals with seeing your plane as far away as possible. A natural wood finish may look great on the ground but if it disappears in the sky, it's hurting your performance potential. If another pilot can see his plane a mile away and you only a half mile, he has a definite advantage. You may never be able to fly as far away from yourself as someone else, but do as many things as possible to limit your handicaps. Being able to see your plane well will increase your confidence in marginal situations as well.

*FLY A PLANE THAT WILL PERFORM WELL AT A LIGHT WING LOADING. While using the latest composites are fun and have their benefits, if it creates wing loadings over 12 oz/ft2, you are at a disadvantage. Even if you subscribe to the philosophy that weight doesn't matter, you won't have the advantage in light lift, and especially in slowing the plane down for landings when there is little or no breeze. If conditions change

such that the heavier ships come into their own, ballast up. But for those early morning flights, it's nice to be light.

*FIND A PLANE THAT IS EASY TO FLY. The best plane to fly is the easiest plane to fly. What that means is that you don't have to worry about what the plane is doing. It basically flies itself. A plane that flies predictably and calmly will require minimum inputs, minimizes drag, and maximizes the plane's peformance in all conditions. It also gives you the opportunity to concentrate on strategy instead of worrying about flying the plane. Trimming out your plane has a big effect also, so get your plane trimmed as well as possible.

*FLY WHEN THE EXPERTS FLY. Regardless of whether they call it sandbagging or not, when you are trying to figure out when to fly in an open order contest, the burden is on you to choose the right time to fly. When considering all the factors like birds, dust devils, and less obvious details, keep your eye on the experts who consistently max their flights. It's very probable that not only is it their good flying skills, but also their good observation skills that causes them to always find lift. Notice their patterns and fly when they fly if possible. They may fool you occasionally but chances are good that if you have comparable equipment and eyesight that you will find lift with them.

*USE LANDING DEVICES. As ugly as they may look, if landing devices are allowed, USE THEM, the opposition does. Not only can they improve your scoring consistency but they keep you from sliding as far. This may not be important if you fly on a sod farm. But if you fly on rough dirt, the shortened

slides keeps your wings from getting so roughed up. If you fly in a fenced area it may keep your plane from sliding into a fence on a poor landing. Landing devices may even keep your plane from hitting you in the shins occasionally.

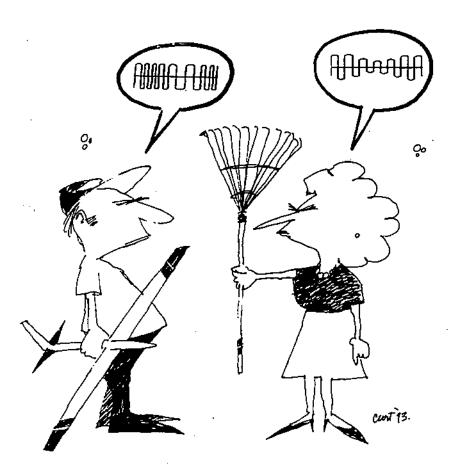
*FIND "USER FRIENDLY" TIMERS. This is like having an easy plane to fly. I'm sure you have noticed when you haven't had a good timer. He/she may not keep you posted on time well, leading to anxiety and/or lack of rhythm. The timer may talk excessively to bystanders, distracting from your concentration. He/she may talk in such a manner that is irritating to you. Whatver the reasons why not to use certain people, strive to find several that read lift well, keep you posted of your times, and have mannerisms that put you at ease and allow you to concentrate on flying.

*BUILD A LIGHT YET STRONG PLANE THAT WILL LAUNCH HIGH. High launches feel great, look great, and give you a definite advantage. It may take a little bit of work and knowledge, but with the right amount of weight and structure in the right places, you can build a light yet strong plane. It is advisable to start with a kit or project that has the potential to be both light and strong. There are a lot of Open class planes out there that meet these criteria so stick around 10 oz/ft2 if possible. It seems like planes rarely come in at or less than the advertised weights.

*LEARN TO BALLAST. Finally, since several of my topics dealt with keeping the weight down, it is important that you learn to overcome any disadvantage created by light weight when the conditions change. Heavy planes at times have the advantage. If the wind

picks up yet there is still lift to be found, you should be able to match heavier aircrafts' performance in these conditions. Learning how to ballast will put you in the same ballpark, so learn when and how much to ballast, and do it.

In closing, I hope these tips are helpful to you. In my observations over the years I have been contest flying, they seem to be true more often than not. Anything you can do to give yourself an edge or to neutralize the oppositions - DO IT. While it almost always comes down to the pilot and not the plane, removing as many handicaps as possible will go a long way towards improving your ultimate contest performance.



FOR SALE

- Harbor Soaring Society shirts and vinyl patches - contact Frank Chasteler at (714) 545-2185
- SELLING OUT! LJMP Cheetah readyto-soar + Vision 8SP radio system, all servos, new RX 600 mah pack + 5 extra new Airtronics servos + new Cronus digital stopwatch (count up/down) + more extras - \$575 takes it all, no serious offers refused!

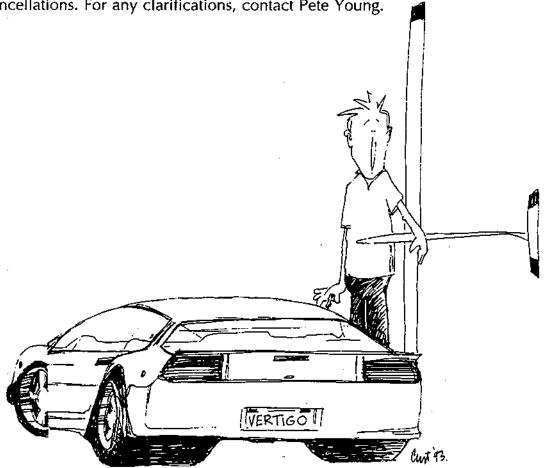
Sealy Pulsar, S3021 airfoil, 95% constructed, wings covered, fuselage ready to paint, reduced to sell at \$175. Call Rich at 714 528-4984.

- Falcon 800, like new condition, with integral wiring harness and carbon fiber skegs, \$350, call Ben at (714) 721-8848.
- 2M (78" span) Sealy Lumina, glass fuse, T-tail, NEW polyhedral wing with flaps. Buyer needs to cut out flaps and cover wing. Price includes a wing bag. \$125 firm. LJMP Cheetah, ready to fly, less RX, includes wing bag, \$265. Gnome 2M ready to fly, less RX, includes wing bag, \$100. Gnome HLG, less radio, ready to fly, \$50. LJMP Pantera ready to fly, less RX, includes wing bag, \$175. 2 Airtronics Vanguard radio systems, less servos, includes TX bag, channels 28 and 56, each \$125. NEW, never used: 5/16" wing rod, 8 3/4" long. Contact Curt @ (714) 592-2105.
- Sealy Laser kit new-in-box. For price, call Mike at (310) 439-4173
- Modified Kincaid Scooter, with Airtronics Module 7SP radio system, completely ready to fly, excellent condition, \$600. Call Ed Hawley at (714) 821-8768.

CONTEST LISTINGS

<u>Date/Location</u>	<u>Event</u>	Point of Contact	
6/5 Riverside	10th Annual H/L	Ian Douglas	714 621-2522
6/5 El Dorado	EDSF Monthly	Mark Child	
6/6 San Diego	Menard 2M 6th Annual	P. Hoffman	619 276-6335
6/6 Costa Mesa	HSS June Monthly	Curt Nehring	
6/12 Carson	SULA 2M/SULABird	J. Smith	
6/12-13 Taft	TOSS Cross Country F3B Benefit/Open-2M	E. Weisman	805 498-8878
6/13 Riverside		Joe Rodriguez	714 924-9537
6/19 San Bernardin 6/19-20	o Watts-Up 2nd Annual Electi		714 883-3145
Visalia	North/South Challenge	CVRC	209 733-3390
6/27 Carson	SC2 @ SULA	E. Kennedy	310 519-7628
7/10-11 Riverside	La Sierra 2nd Annual Slope	W. Gunther	909 943-3198
7/11 San Diego	Anderson 2M Contest	H. Merrifield	619 578-7942
8/14-15 Carson	1st Annual Summer Soaring F		0.4.0.000.0=00
8/21-22 Morgan Hi		S. Addis	310 320-2708
	SBSS Summer Classic	G. Paige	916 273-0415

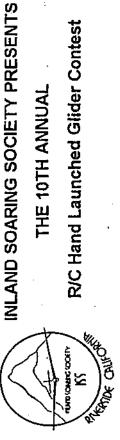
Note: for detailed information, contact the individuals listed. Not responsible for changes or cancellations. For any clarifications, contact Pete Young.





1993 U.S. F3B Soaring Team Official

Merchandise Order form



R/C Hand Launched Glider Contest

THE 10TH ANNUAL

coming this June. There will be a raffle, and some major prizes, (glue. hand launch plans, fats, even ractos), so don't miss it! The Inland Souring Society's Tenth Annual R./C Hand Launched glider contest is

FEST I'D LIKE TO HELP SUPPORT OUR U.S. SOARING TEAM.

1993 USA F38 Team • 15781 Empire Ln • Westminster • CA • 92663 & (714) 839 4166

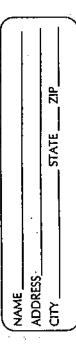
Official Team T-Shirts emblazoned on the front in full color with 1993 Team Logo & USA F3B Team on sleeve. Shirts are 100% preshrunk Cotton. Medium T-Shirt Large T-Shirt Extra-Large T-Shirt XXL T-Shirt Official U.S. Team Pin
Official U.S. Team Patch

send you a free team pin! equals \$25 or more we'll total (not including S/H) *If your merchandise

GRAND TOTAL Shipping/Handling (Add 10% of Subtotal) Donation (Optional)

SUBTOTAL*

to 1993 USA F3B Soaring Team, 15781 Empire Lane, Westminster, CA 92683. Please allow Please fill out your name and address below, and send your check or money order payable two to three weeks for delivery.



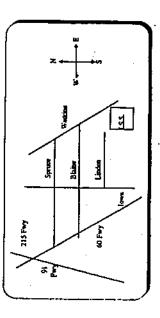
The rules and tasks will be very simple. Any glider with a projected span of sixty inches or less, no will be flown. Round one will be a ten minute alot in which each pilot may launch as many times as possible with your three longest flights counting. The pilot with the longest flights will receive 1000 points and all other scoring will be man-on-man. Round two will be a ten minute slot with matter how many functions, will qualify. Anyone may throw your glider for you. Three rounds nan-on-man. Round three will be a ten minute slot with six launches, best five count with a two scoring will be man-on-man. All flights must end before the slot is over to count, any flight that minute maximum. The pilot with the highest total time will receive 1000 points and all other minutes, the pilot with the longest flight will receive 1000 points and all other scoring will be unlimited launches to attempt a five minute precision/duration flight. If no one makes five ends after the slot will be scored as a zero.

tharp. Mark your calendars for Saturday, June 5, 1993 and make your way to Riverside, C.A for Entry fee is \$ 7.00. Registration starts at 8:00 AM and the pilot's meeting will be at 9:00 AM fun, excitement and big prizes.

AMA LICENSE REQUIRED AMA SANCTIONED

UNIVERSITY OF CALIFORNIA RIVERSIDE

FOR MORE INFORMATION CALL HARVEY JENKINS (909) 980-5732 (909) 621-2522 IAN DOUGLAS



SOARING UNION OF LOS ANGELES JUNE SC2 CONTEST ANNOUNCEMENT

SULA field, CSUDH, Carson, CA. Intersection of Avalon Blvd. and Victoria St. Enter at Tamcliff entrance. (Map on Back) WHERE:

June 27, 1993. Registration begins at 8:00 AM. Pilots meeting at 8:45 AM. First flight 9:00 AM WHEN:

 THREE ROUNDS OF THERMAL PRECISION DURATION. **EVENTS:**

DURATION. Scoring: Max 960 Fit. Pts., Max. 40 Lndg. Pts. ■ ROUND ONE: 4 MINUTE TARGET TIME PRECISION

DURATION. Scoring: Max 960 Fit. Pts., Max 40 Lndg. Pts. ■ ROUND TWO: 7 MINUTE TARGET TIME PRECISION

ROUND THREE: 5 MINUTE TARGET TIME PRECISION DURATION. Scoring: Max 960 Fit. Pts., Max 40 Lndg Pts.

FLIGHT POINTS: 960 - 4 POINTS PER SECOND PENALTY OVER OR UNDER TARGET TIME. All flight times rounded to

■ LANDINGS: 20 FT., 4 ZONE TAPE (OUT, 10, 20, 30, & 40 Pts.); nearest second (down for less than 0.5 sec.).

All approaches from the east; Landing surface mowed, dried weeds.

RAHM 12 V WINCHES, 900 FT. LINES. All launches to the west.

group, rounds two and three. SULA field safety rules enforced. frequencies subject to call up. Called flight order by random All SC² rules apply. All 72 Mhz. transmitters gold stickered. DETAILS: Open flight order, round one, with cut-off time. Crowded

CD: Ed Kennedy (310) 519-7628

Entry fee \$6.00 Open to all AMA members.

SULA President: Kevin Andersen (310) 372-2585

HOBBY HORN

(714) 893-8311 PHONE // (714) 895-6629 FAX 15173 MORAN ST. // P.O. BOX 2212 **WESTMINSTER, CA 92683**

MONTHLY SPECIALS ON PADIOS, PARTS AND ACCESSORIES	(specials listed below are only good for the month of this special flyer.) MAY, 1993
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JR RADIOS

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JA RECEIVERS (CONT)

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	141 MINI METAL GEAR SERVO \$79.96.	923
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\$29.95 \$15.99	745 FM MICRO 4 CH RECEIVER \$59.95.	\$75
\$24,99	765 FM STO 6 CH RECEIVER \$89.95	98
\$52.99	985 PCM 8 CH RECEIVER\$189.85.	\$133

JR SERVOS

\$133.90		\$110.90	\$182.99	\$16.99	88	2.28	
\$189.95		VOS \$244,95	\$289.85	53.85	\$59.05	SERVO \$79,95	
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GENERAL	SERVO SAVERS (FOR YOUR FLAPS)	FOR PUTABA SERVOS	FOR AIRTRONICS OR JR SERVOS \$2.25	HOBBY HORN SUPER DUTY TOW HOOK	HOBBY HORN WING SERVO FARINGS (4)	HOBBY DYNAMICS DIGITAL MINITACH \$40.95 \$30.95	HD EXPANDED SCALE VOLT METER\$19.95\$14.05	FEATHER CUT MACHINE
025 Mini highapeed/coreless \$79.95 \$49.99	321 Gilder wing/consists \$89.95 \$54.99	D5 FET high power \$109.95 \$64.99	005 Low profile/oozeless \$109.95 \$64.99	*** BULK OFFER ON 341-BUY 6 OR MORE AND TAKE OFF	NEXTRA 10%)	R ACCESSORIES	31 DELLIXE SMITCH HARNESS, GOLD \$14.95 \$12.99	23 SMALL SW HARNESS \$8.95 \$8.06

SMALL SW HARNESS 895
1 CHARGE SWITCH HARNESS 818.95
1 JA NECK STRAP 813.95
1 JA NECK STRAP 819.95
1 JA KEROW HARNESS 819.95
1 KZ ZTO MAH PACK

SUPPLIES HAS TO THE FITTERS ARE GOTAVARES ENTITIONS OF CONTROL. ONYS OENEEW TIO OUR SKYP, LAST ONE US A CALL WITH YOUNG CER GITTON WE CAUCHCKAN HOU CALL YOU LOOK ON THE WASHINGT AND WE CHUTCHAN HOU CALL YOU LOOK ON THE WASHINGTON TO THE WEST THE ALTERNATES FYOU CAN THE SEVEN PRESENCE PRECLICENCY, FUNE ME SOME ALTERNATES FYOU CAN THE WASHINGTON THE SECOLED WHO HIS STECLALS WHICH SOURCE WORTHAT OUR PRESENCE OF THE MACHINGTON THE WASHINGTON THE WITHOUT SEVEN THE WOOD THE WASHINGTON THE WITHOUT SEVEN THE WASHINGTON THE WOOD THE WASHINGTON
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(Hams, Looking for JR 6 meter stuff give me a cell.)

ANY SPECIAL REQUESTS? GIVE ME A CALL FOR A QUOTE!

\$91.99

228 FM RX, 8 CH CREDIT CARD 72MHZ \$149.95 528 FM RX, 9 CH 50/53/72 MHZ \$144.95

COMPOSITE SAILPLANES

by GRECO TECHNOLOGIES



DED

abuse of competition. This engineering has created a plane that is excellent for FIB. Thermaling and is definitely not for everyone. It was created for the RC salphere palot who want to test his own acteriques to create an acrodynamically sound Slope Racing Competitions. However, this plane he design goal for the Molded Modi was to suid a competition style suitplane that used the atest advences in materials and proven design usiplane that excelled in speed, duration, and hermaling; and was soons enough to hardle the

THERMAL MODI 900

companion pilot a high quality, well construced multi-purpose airplane. The most unpressive The Thornal Modi was designed to offer the nineted wings. The faith resembles that of fine furnithm. feature of this otane is the wood lar

The plane is available with three different aufolis, to accommodate a variety of flying stylot: \$3021, \$D1037, and RG-15. The \$3021 is or the slightly more advanced pilot who wants a escellent for the pilot who wants a basic sixfoil for hermating and landing. The SD7037 is an unfoll

DURATION

andings and to be able to stay affort in dead air. The resulting sailplane, when built right, weight a mere 60 oz. and has a wing loading of 10 oz./2q.ft. and the level of compenition at these contest, Greco had many request for an extremely light The Detailor Modi was With the popularity of Thermal/Duration constructed extra light to be competitive in spot resson of the Modi.

MODI

very popular among glider pilous. Green's design team, like may others, like to just go out and see what kind of thermals they can catch. There is a great sense of accomplishment being able to "sky-

tomance envelope. The suiplane has capabilities that are entirely beyond the beginning pilot. The futulage is constructed of fiberglast and

polyuculume form with carbon fiber luminated, wrapped in fiberglass and Kevler. The 14 mil, solid carbon fiber wing joiner red fits into a carbon fiber receiver tabe. The suiplass also has mechined Kevlar, The molded wings are assembled with high compression polymethene foam, fiberglass and Kevlar. The spar is made of high compression Quesinan concellents and beletterk with spanished

bit more speed. The RO-15 is for the advanced pilot, who has the ability to take advantage of the benefits this zirfoil has to offer.

and fiberglass laminated within the wing. The outer-layer is luminated wood. The additions of composite materials pressly enhances the sentition of options. Like the Modded Moult he Thormat Motil has the aluminum control horse and belevank, and the The wood wings are constructed of high compression blue fourt, with inlaid root ribs and sub tibs. There is a layer of unidirectional curbon fiber

MODI KI

addition of a fiber gluuribest web. The wing planform is a triple uper and the sidfoll comes in body \$3021 or \$D7037. The fiberglass flue is 30 in, long. The stabilistors and rudder ers built-up to reduce the The wings although extremely light will still of white fourn covered with Obachi. The sper runs early the cruire krapth of the wings and has the andle a full tilt learnch. The wings are constructed

JAVELIN HAND-LAI divehand taunch pilot. The fuselage is a pod

surfoil and a polyhedral, single taper planform. The such and radder are built-up, This plane connex in a and boom style. The pod is made of fiberglass and Keyler, the boom is black fiberglass. The wings are kit form and requires an Airtronics computer redio white fourn with Obochi shocting, with an SO7037 The Modi Javelin Hand-launch is for the

bearing; along with aluminum shaft hinges with

The plane requires an Airtronics V&SP ratio and an 8 chursel PCM/FM receiver or bester. There needs to be 4 Pro Micro servos in the wings and 2 Sendard serves in the flux, or the equivalent.

Specifications:
Wingspare Hillin, Area 911 in P. Weights 80 or
Louding: 140 or Mr. France 50 or Root Chord
10 or; Arfold RO 15; Wing Planform: Triple
Tapen, State SDM00: Aspert Parior: 13.20.1.

eluminum start hinges. This leit is pre-built and all that is left to complete it is to install the radio equipment and linkage. This felt has the sume ndio set up as the molded. Specifications:

Wingspen: 116 in: Wing Ares 949 in!; Fue Larght: 50 in: Weight 55az; Wing Londing: 12.4 oxfr?; Road-Dord; 10 in: Axifoli; 53031, 55003, or 6G-15; Wing Planform: Triple Taper, 5ab Axifoli; 508020; Axpert Ruio: 14.2.1.

weight in the tail and in turn reduces the weight led in the nose. This plane comes in hit form. Specifications:

Wingspart 10th: Wing Avent 860th: Aprox. Weight 60oz. Aprox. Weight 60oz. Aprox. Weig Londing: 10ou pl. Roo. Choeft 10th: Arfoil: 53021 or 510073; Wing Panform: Triple Taper: Appet Raio: 13.1:1.

Greco Sun-visor Greco T-Shirs Greco Stickers

AS-921 AS-922

ACCESSORIES

s 15.00 5 6.00 3.00

AUNCH KIT With Achagned microsmoseive and two ministervola

- ₹

Wingspen: Stirr, Wing Area: 1800ir2, Aprox. Weight: 14oz; Aprox., Wing Londing: 52oz ft2. Root Chord: 7.5xx., Airfolt: 507037; Wing Planform: Polyhottel, Single Taper. or the equivalent. Specifications:

MODI 900 SERIES		00 0000
M9-110	Molded Mode you almost ready to ruy, kound microso will be.	2000
W9-120	Thermal Modi 900 Almost Ready to Fly, \$3021 Wood Wings.	2800.00
M9-121	Thermal Modi 900 Almost Ready to Fly, SD7037 Wood Wings.	\$800.00
M9-122	Thermal Modi 900 Almost Ready to Fly. RG-15 Wood Wings.	\$800.00
M9-130	Thermal Modi 900 Kit. \$3021 Wood Wings.	\$450.00
M9-131	Thermal Medi 900 Kit SD2037 Wood Witnes	25,50
FF: 93	Thermal Medi 200 Wis CC 15 Wood Winns	245000
7C1-6W	וופווואד ונוסח אס יציל יציקים בניסים יג חוף:	
MODI SAIT PLANES		
WS-110	Modi Javelia Hand faunch Kin. SD7037 Wood Wings.	\$150.00
MS-120	Duracon Modi Kir SW21 Wood Wings.	\$350.00
MS-120	Duration Modi Kit, \$D7037 Wood Wings.	\$350.00
IMPORTED SAIL PLANES	E	
	A variety of imported suitplanes are available upon request.	Call for Quote
To see The second		
KELALEMEN CARLA		
RP-300	Modi 900 Fusciage with Canopy.	B15118
RP-310	Modi 900 Canopy Only.	\$ 10.00
RP-320	Molded Modi 900, RG-15 Wings.	\$675,00
RP-321	Thermal Modi 900 Almost Ready to Ply, \$3021 Wood Wings.	\$600.00
RP-322	Thermal Modi 900 Almost Ready to Fly, SD7037 Wood Wings.	2600:00
.RP-323	Thermal Modi 900 Almost Ready to Fly, RG-15 Wood Wings.	2600.00
RP-324	Thermal Modi 900 Kir, 53021 Wood Wings.	\$350.00
RP-325	Thermal Modi 900 Kit, 5 D7037 Wood Wings.	\$350.00
RP-326	Thermal Modi 900 Kit, RG-15 Wood Wings.	\$350,00
RP-330	Modi 900 Vacuum Bagged Competition Stabilator.	\$145.00
SAIL PLANE PARTS		
SP-410	Aluminum Belezank with Precision Bearing.	\$ 20.00
SP-421	Custom Shaft Hinges. Set of 2.	Call for Quote
SP-422	Standard Shaft Hinges, 26" length by 5/8" dismeter. Set of 2.	\$ 25.00
SP-430	Aluminum Control Homs for Aikerons, Flaps or Rudder, Set of 2.	\$ 6.00
SP-440	48" long Music Wire Push-Rod.	\$ 5.00
SP-441	14 mil, Carbon Fiber Wing Joiner Rod 5* dibodral.	\$ 55.00
SP-442	14 mil. Hardened Sizel Wing Joiner Rod 5" dihedral, used for Ballass.	\$ 40.00
SP-450	1/2" Carbon Fiber Wing Joiner Rod.	s 30.00
SP-451	1/2 " Hardened Steel Wing Joiner Rod, used for Ballast.	20.00

GRECO

Price effective starting December 1, 1992. Prices subject to change without notice. See Castiog for more detail, to obtain send SASE to Greco at PO Box. 10, So. Passdons, CA 91030. Prices not available at time of patriate.

TECHNICAL CONSULTING

POST OFFICE BOX 10 - SOUTH PASADENA - CALFORNIA - 91031 33 NORTH LAKE AVENUE, TH FLOOR - PASADENA - CALIFORNIA - 91101 TELEPHONE (213) 680-2070

LAC	Έ	NAME		CLUB	CLASS	SCORE	NORMALIZED TROPHY
	- 1	ED8ERG	DON	HSS	EXPERT	2980,0	1000.0 1ST. EXP.
		WURTS	JOE	PSS	EXPERT	2979.0	999.7 2NO. EXP.
	3	PERKINS	DARYL	PSS	EXPERT	2962.0	994.0 3RD, EXP.
	4	MARKLE	JIM	EDSF	EXPERT	2950.0	989.9 4TH. EXP.
	5	VALDES	AARON	TPG	EXPERT	2948.0	989.3 5TH, EXP.
	6	TILLMAN	NORM	NCC	EXPERT	2947.0	988.9
	7	WARNER	GARTH	NCC	EXPERT	2946.0	988.6
	9	JOY	GEORGE	TPG	EXPERT	2945.0	988 3
	9	CONDON	STEPHEN	TPG	EXPERT	2918.0	979.2
		SAGE	FRED	TPG	EXPERT	2916.0	978.51
	11	REAGAN .	MIKE	TOSS	EXPERT	2915.0	978.2
	12	SLIFF	вов	HSS	EXPERT	2885.0	968.1
	13	RODRÍGUEZ	JOE	ISS	EXPERT	2864.0	961.1
	14	CONDON**	SCOTT XX	TPG	SPORTSMAN	2851.0	958.7 1ST, SPTS
	15	SKINNER	JIM	EDSF	EXPERT	2834.0	951.0
	16	LEVOE	MARK	PSS	EXPERT	2822.0	947.0
		BAGGERLY"	GREG XX	iss	SPORTSMAN .	2819.0	
	_	GATTI	MARK	IPSS	EXPERT	2819.0	946.0 ZNO. SPTS
		MARKIEWICZ	ARTHUR	TPG	EXPERT	2815.0	946.0
		POPE	BOB XX	EDSF	SPORTSMAN		944.6
	_	GIBBS		HSS	SPORTSMAN	2791.0	936.6 3RO, SPTS
	_					2764.0	927.5
		SADORF RAYMOND	STAN KEN	ISS NCC	EXPERT	2759.0	925.8
					EXPERT	2720.0	912.8
		SWET	ВОВ	TOSS	EXPERT	2718.0	912.1
		MORTON	RICHARD	TPG	EXPERT	2699.0	905,7
		WEISMAN	B J XX	TOSS	SPORTSMAN	2680.0	899.3
		DUNCAN	BILL XX	EDSF	SPORTSMAN	2652.0	889.9
		DOUGLAS	IAN	SWSA	EXPERT	2634.0	883.9
		AGUIRRE	MIKE XX	HSS	SPORTSMAN	_ 2610.0	875,8
		ZINK	DON	NONE	EXPERT	2597.0	871,5
		THOMAS	ROSS	HSS	EXPERT	2581.0	866.1
		PARSONS	JIM XX	HSS	SPORTSMAN	2566.0	861,1
		WEISMAN	EDGAR	TOSS	EXPERT	2541,0	852.7
		DOIG	AL,	NCC	EXPERT	2525.0	847.3
	35	VAN GUNDY	SUE	TPG	SPORTSMAN	2520.0	845,6
	36	FINKENBINER	KEITH	NCC	EXPERT	2507.0	841.3
:	37	LACKEY	ROGER	HSS	EXPERT	2487.0	834.6
7	38	SPITZER	GEORGE	P\$\$	EXPERT	2476.0	830,9
- :	39	ŞWANSON	NORM	TPG	SPORTSMAN	2464.0	826.8
	40	BLEDSLOE	RICHARD	TPG	EXPERT	2428.0	814.8
,	41	SCHARCK	RON	TPG	SPORTSMAN	2420.0	812,1
		WAGER	MARVIN	TPG	SPORTSMAN	2397.0	804.4
		TAU	MANNY	HSS	EXPERT	2377.0	797.7
		RICHARDSON	PETE	HSS	EXPERT	2374.0	796.6
		STAFFORD	IRV	NCC	EXPERT	2368.0	794,6
		DEAN	THOMAS	NCC	SPORTSMAN	2356.0	790.6
		VINCENT	TOM	HSS	SPORTSMAN	2334.0	783.2
	_	LUGO	BRENDAN '	NCC	SPORTSMAN	2330.0	781.9
		NEHRING	CURT 4	HSS	SPORTSMAN	2324.0	779.9
		VAN GUNDY	DON	TPG	EXPERT	2293:0	769.5
	511	CRON	Al	IHSS	IEXPERT :	2278 0	76A A I
		CRON CHASTELER	AL ,	HSS	EXPERT	2278.0	764.4
	52	CHASTELER	FRANK	HSS	EXPERT	2259,0	758.1
	52 53	CHASTELER HALLFORD	FRANK PHILIP	HSS PSS	EXPERT EXPERT	2259,0 2229.0	758.1 748.0
	52 53 53	CHASTELER HALLFORD KINGSBURY	FRANK PHILIP TODD	HSS PSS NCC	EXPERT EXPERT EXPERT	2259.0 2229.0 2229.0	758.1 748.0 748.0
	52 53 53 55	CHASTELER HALLFORD KINGSBURY FAULKENHAM	FRANK PHILIP TODD RON	HSS PSS NCC ISS	EXPERT EXPERT EXPERT EXPERT	2259.0 2229.0 2229.0 2223.0	758.1 748.0 748.0 748.0 746.0
	52 53 53 55 56	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS	FRANK PHILIP TODD RON THOMAS	HSS PSS NCC ISS TOSS	EXPERT EXPERT EXPERT EXPERT EXPERT	2259.0 2229.0 2229.0 2223.0 2219.0	758.1 748.0 748.0 746.0 744.6
:	52 53 53 55 56 57	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER	FRANK PHILIP TODD RON THOMAS BOB	HSS PSS NCC ISS TOSS NONE	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT	2259.0 2229.0 2229.0 2223.0 2219.0 2211.0	758.1 748.0 748.0 746.0 744.6 741.9
:	52 53 53 55 56 57 58	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH	FRANK PHILIP TODD RON THOMAS BOB STEVE	HSS PSS NCC ISS TOSS NONE LVSC	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN	2259.0 2229.0 2229.0 2223.0 2219.0 2211.0 2207.0	758.1 748.0 748.0 746.0 744.6 741.9 740.6
	52 53 53 55 56 57 58 59	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY	FRANK PHILIP TODD RÖN THOMAS BÖB STEVE PATRICK	HSS PSS NCC ISS TOSS NONE LVSC TPG	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT	2259.0 2229.0 2229.0 2223.0 2219.0 2211.0 2207.0 2146.0	758.1 748.0 748.0 746.0 746.0 741.9 740.6 720.1
	52 53 55 55 56 57 58 59 60	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK	FRANK PHILIP TODD RÖN THOMAS BOB STEVE PATRICK STEVEN	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS	EXPERT	2259.0 2229.0 2229.0 2223.0 2219.0 2211.0 2207.0 2146.0 2139.0	758.1 748.0 748.0 746.0 746.0 741.6 741.9 740.6 720.1 717.8
	52 53 55 56 57 58 59 60 61	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT EXPERT EXPERT SPORTSMAN	2259,0 2229,0 2229,0 2223,0 2219,0 2211,0 2207,0 2146,0 2139,0 2105,0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8
	52 53 55 56 57 58 59 60 61 62	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON BILL	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT EXPERT SPORTSMAN SPORTSMAN	2259,0 2229,0 2229,0 2223,0 2219,0 2211,0 2207,0 2146,0 2139,0 2105,0 2025,0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8 706.4 679.5
	52 53 55 56 57 58 59 60 61 62 63	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN STROBEL	FRANK PHILIP TODD RÖN THOMAS BÖB STEVE PATRICK STEVEN DON BILL RICH	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF	EXPERT SPORTSMAN SPORTSMAN EXPERT	2259,0 2229,0 2229,0 2223,0 2219,0 2211,0 2207,0 2139,0 2105,0 2025,0	758.1 748.0 748.0 746.0 746.0 741.9 740.6 720.1 717.8 706.4 679.5 653.4
	52 53 55 56 57 58 59 60 61 62 63 64	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN STROBEL HUNTER	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON BILL RICH CLIFF	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF TPG NCC	EXPERT SPORTSMAN EXPERT EXPERT SPORTSMAN EXPERT SPORTSMAN	2259,0 2229,0 2229,0 2223,0 2223,0 2211,0 2207,0 2146,0 2139,0 2105,0 2025,0 1947,0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8 706.4 679.5 653.4 584.2
	52 53 53 55 56 57 58 59 60 61 62 63 64 65	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN STROBEL HUNTER SCHULTZ	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON BILL RICH CUFF STEVEN	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF TPG NCC EDSF	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT SPORTSMAN SPORTSMAN SPORTSMAN SPORTSMAN SPORTSMAN	2259,0 2229,0 2229,0 2223,0 2219,0 2211,0 2207,0 2146,0 2139,0 2105,0 2025,0 1741,0 1655,0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8 706.4 679.5 653.4 584.2 555.4
	52 53 53 55 56 57 58 60 61 62 63 64 65 66	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN STROBEL HUNTER SCHULTZ STUBB	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON BILL RIGH CLIFF STEVEN PAUL	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF TPG EOSF NCC	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT SPORTSMAN SPORTSMAN EXPERT SPORTSMAN EXPERT SPORTSMAN EXPERT SPORTSMAN EXPERT SPORTSMAN SPORTSMAN	2259.0 2229.0 2229.0 2229.0 2219.0 2211.0 2207.0 2146.0 2139.0 2105.0 2025.0 1947.0 1741.0 1655.0 987.0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8 706.4 679.5 653.4 584.2
	52 53 55 55 56 57 58 59 60 61 62 63 64 65 66 87	CHASTELER HALLFORD KINGSBURY FAULKENHAM AKERS THACKER SMITH CONWAY FINK RICHMOND KLATSKIN STROBEL HUNTER SCHULTZ	FRANK PHILIP TODD RON THOMAS BOB STEVE PATRICK STEVEN DON BILL RICH CUFF STEVEN	HSS PSS NCC ISS TOSS NONE LVSC TPG HSS TPG EDSF TPG NCC EDSF	EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT EXPERT SPORTSMAN EXPERT SPORTSMAN SPORTSMAN SPORTSMAN SPORTSMAN SPORTSMAN	2259,0 2229,0 2229,0 2223,0 2219,0 2211,0 2207,0 2146,0 2139,0 2105,0 2025,0 1741,0 1655,0	758.1 748.0 748.0 746.0 744.6 741.9 740.6 720.1 717.8 706.4 679.5 653.4 584.2 555.4

CLUB	MEMB	TOTAL
TPG	10	3935,3
PSS		3886.7
HSS	14	3771,4
EOSF	7	3767.4
NCC	12	3737.6
7OSS	5	3842.3
ISS	1 4	3578.9
SWSA	1	883.9
SFVF	į.	0.0
MRCS	<u></u>	0.0
SULA		
DUST		0.0

HARBOR SOARING SOCIETY MAY, 1993 CONTEST TWO-METER DIVISION

	NAME		SCORE	NORMALIZED	TROPHY
	AGUIRRE	MIKE	4582,0	1,000.0	151.
	EDBERG	DON	4384.0	956.8	2ND.
	PARSONS	JIM	4221.0	921.2	3RD.
	NEHRING	CURT	3969.0	866.2	
	CHASTELER	FRANK	3713.0	810.3	
8	BUZOLICH	NICK	3539.0	772.4	
7	SUFF	BOB	3473.0	758,0	
.8	KUTCH	NORM	3370.0	735.5	
9	VINCENT	TOM	3206.0	699.7	
	THOMAS	ROSS	2862.0	824.6	
	RICHARDSON	PETE	2720.0	593.6	
12	CRON	AL	2576.0	562.2	

JUNE HSS MONTHLY

<u>DATE:</u> Sunday June 6th <u>LOCATION:</u> Fairview Park

CD: Andy Sanders
EVENTS: 2 Meter and Unlimited
FORMAT: 3 rounds, 20 mins.,
2400 flight pts possible,
Add-Em-Up, land on the
whole minute, 2 points per
sec penalty. 7 mins. max/
2 mins. min per flight. Runway
centerline landings, 25' tape,
200 pts max per flight.
PILOTS' MEETING 8:30AM,
FIRST FLIGHTS AT 8:45AM

FOR SALE

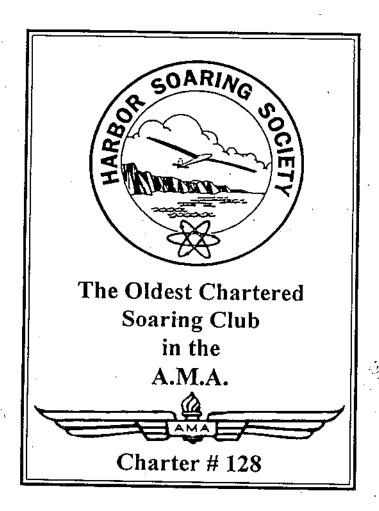
soar toons

Designed and Illustrated by Curt Nehring

- "Soartoons" illustrated notecards and envelopes
 - the perfect gift for the soaring enthusiast!
 - set of 12 for only \$10

Contact Curt Nehring 1265 N. Van Buren, 210D Anaheim, CA 92807-1633 (714) 592-2105

^{**} Scott Condon, Greg Baggerly, and Bob Pope move To EXPERT



JUNE HSS MEETING

DATE: Wednesday, June 2, 7:30PM

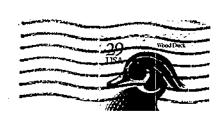
LOCATION: Clubhouse at Lakes at Seabridge Condos. Refer to instructions on page 1.

SHOW AND TELL: Bring in your latest projects!

GUEST SPEAKER: HSS member (and full scale glider flier) Bud Mears will detail wake rake measurements used to optimize flap settings.







FIRST CLASS MAIL

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