

The Harbor Soaring Society Newsletter

AUGUST 1992, VOL. 29 NO. 8



Fairview Park's Future by Ben Clerx

A recent meeting with a city parks department representative revealed a new plan for Fairview Park which will have been voted upon by the time this hits the press. The new plan calls for development of about one third of the park area, mostly in the form of soccer fields and facilities - likely to be located at our present flying site. The area now occupied by dirt piles - the Indian burial grounds - would likely become our new and larger flying site as that area cannot be built upon or developed in any way. In any case, HSS will be involved in the planning and won't be left in the dark - or so we've been told.

The bottom line is that it is very unlikely that HSS would be left without a flying site. It is important to remember that these are long range plans that

can change, and that these plans are based upon funding that at present - and probably for many years in the future - simply does not exist. I don't expect to see much change over the next five years...except for the leveling of the dirt piles by the end of this year - good news for those who've had to play "hide and seek" with their plane after landing beyond the dirt piles. In the meantime, have fun and fly safely!

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

H.S.S. BOARD MEMBERS

President: Ben Clerx	(714) 721-8848
Vice President: Dick Johnson	(714) 673-7553
Secretary: Woody Grosvenor	(714) 969-1524
Treasurer: Frank Chasteler	(714) 545-2185
Contest Coord: Ross Thomas	(714) 638-0705
General Dir: Pete Richardson	(714) 557-4782
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.

Printing Courtesy of OCB Reprographics
Irvine, CA (714) 660-1150

JULY HSS MEETING MINUTES

The meeting was brought to order at 7:40PM by Ben Clerx, President. The minutes from the last meeting were accepted as read. Frank Chasteler gave the Treasurer's report on the balance of club funds, club shirt sales, contest funds, etc. The Treasurer's report was accepted as read.

Ross Thomas talked about the SC2 contest hosted by HSS, planned for July 26. Ross asked for help with the contest and pointed out the things needed to make the contest a success. Some of the suggested items were: plenty of fresh winch batteries, winches, and supplies in good condition with operation and condition checked out before the contest. Ross recommended having extra equipment rather than not enough, with helpers ready to keep everything running smooth. A portable canopy for the transmitter impound would be a useful feature to keep transmitter batteries cool and help control frequency use. People willing to help with the SC2 contest should contact Ross.

A barbecue or picnic was suggested for after a future contest in the near future. Better advance notification of dates that amateur radio clubs are using Fairview Park was requested. If available, this information will be printed in the newsletter.

John Ostrowski showed some very nice monogrammed clothing and coffee mugs. John has found a very good place to have items monogrammed with the club emblem for a reasonable price - polo shirts, T-shirts, jackets, hats, sweat shirts, and warm-up suits are available. If there is enough interest, the club will coordinate orders later in the

year - contact Pete Young for details.

The business meeting closed at 8:15PM.

The guest speaker was clubmember Howard Doering who brought his equipment and design notes for his recordsetting electric control-line speedster, an exquisitely crafted aircraft using an Astro-Flight "dragster" R/C car electric motor, flown on 7 cells. Weighing 24 ounces, his airplane flew 80.50 mph on its first-ever flight, breaking the existing record by over 10 mph!

One of the most promising areas for future development is propeller design, and Howard has done a lot of research and testing to develop optimum propellers. His goal is to raise his existing 7 cell speed record from 87.47 mph into the low 90s. He has new aircraft concepts designed, and plans to attack the records in other control-line electric speed categories.

Woody Grosvenor, Secretary



FYI

FOR SALE

...Congrats to Ben Clerx for placing first at the June SC2 tournament "Earthquake Sunday", hosted by TPG at their Poway field...other HSSers placing in the top 20 were Roger Lackey, Bob Sliff, Manny Tau, and Tony Martin...flying conditions were excellent, equipment problems nonexistent, an extremely well-run contest by George Joy and the TPG club...so far in overall SC2 points standings, HSS leads by a narrow margin over NCC and TPG, with SULA and ISS following closely behind...HSS is hosting the next SC2 July 26th at Fairview Park, and the support of all HSS members is needed, contact CD Ross Thomas for specific details...seen at the field: Ben Clerx's new composite Open ship, looks deadly and flies great; John O's new composite 2M, looks promising...Revived and Flying Again: Norm Buzolich's Spirit 100, rebuilt by Norm Kutch; Dick Pantzar's Legend...Rest In Peace: Steve Hendry's composite ship, totalled after shedding both horizontal stabs; Pete Young's 2M Gnome, a flyaway after radio failure at Hughes Hill...best wishes to the F3E team (Bridgeman/Neu/Perrin, Bob Sliff manager), leaving soon for the World Champs in Belgium...new HSS logo stick-ons have arrived, contact Frank Chasteler...

WANTED

- Airtronics Module 7SP radio systems. Contact Pete @ (714) 892-3473.

- 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 - glass fuse, extended wings, spoilers and flaps. Price includes a wing bag. Ready to fly. With 7 servos - \$275. Without servos - \$175.

- contact Curt @ (714) 592-2105.

- Sealy Ultima - glass fuse, T-tail, 130" span, flaps, ailerons. Spare set of wing cores included. \$175.

- Kits new-in-box: Airtronics Adante, Sagitta 600; Mark's Mirage, Ace Quasoar, Prodigy; Sig Citabria, Goldberg Super Chipmunk; LJMP Meteor and Pantera; Top Flite Nobler, Klingberg Wing. For prices, call Pete @ (714) 892-3473.

SULA/EDSF/HSS Fun-Fly

Saturday August 1st marks the inaugural SULA/EDSF/HSS Challenge Fun-Fly to be held at El Dorado Park in Long Beach. CDs are Mark Child and Jim Markle.

The flying events are unique and challenging. Most Loops is self explanatory - highest number of completions wins. Chicken Flight will find out how long your plane can fly with your transmitter on the ground, untouched! Dead Reckoning is a precision time flight with landing points - only hitch, the flier can not be assisted by any timing devices, you must keep track of the time in your head.

Ross Thomas is the HSS point of contact. Dust off an old Wanderer, Gentle Lady, or anything expendable and see you at the field!

JULY HSS MONTHLY

Clear sunny weather greeted the fliers for the July HSS Monthly. CDs Curt Nehring and Pete Young announced the tasks: 20 minutes add-em-up, 3 minutes min - 10 minutes max per flight, 3 rounds mandatory. Landings counted 50 points apiece, aircraft landing "on" or "off" the 25' landing tape.

Thermal conditions were excellent, perhaps the best soaring weather for an HSS Monthly this year. 10 minute maxes were plentiful, and many fliers returned 20 minute totals.

In 2 Meter, Bill Duncan's Gnome outflew the field, with Roger Lackey (Falcon 600) and Pat Stoker (Chuperosa) placing second and third. Pete Young won Sportsman with his new Alcyone, with Mike Aguirre and his Gnome placing second. Dan Danrich won Advanced with his composite original, with Jim Boese's flat-winged Legend following.

Ben Clerx took first in Expert with his Falcon 880, edging out Roger Lackey's Eagle; Frank Chasteler (Legend) tied Steve Fink (Falcon) for third.

Special thanks to the club members who brought out their winches - with four winches "on the line", flying moved along briskly with flying complete by 12:20. With the early start time, winds were not a factor until the last round of Open.

Dick Pantzar, Al Cron, and Brett Young deserve a special "Good Neighbor" award - they gave up early round flying time to isolate and seal off a badly leaking water line in the adjacent schoolyard.

HSS LOGO ITEMS

The club has received 1000 multi-color stick-ons which Frank Chasteler is distributing. 2 for \$1.00 is the going rate. Using weather-proof inks on a vinyl background, this patch is non-fading and non-wrinkling, unlike the previous paper-based patches.

Here's an FYI for other model clubs: I did quite a bit of telephone calling before settling in on CC Decal & Ad Specialties, 5702 Venturi Drive, Huntington Beach 92649. Their service was top-notch and their prices unbeatable. Their phone number is (714) 840-4475, ask for Carol.

Frank C. is also distributing the new HSS club shirts. Prices are \$13 for large and XL, and \$15 for extra-extra large.

Pete Young

AUGUST MONTHLY

DATE: Sunday August 9, 1992

CONTEST DIRECTOR(S): Curt Nehring and Pete Young

FORMAT: 3 rounds @ 1000 pts, 4-6-8 minute maxes - pilot's choice, graduated tape landings. Landing points: 120-80-40 possible.

PILOTS' MEETING AT 8:15 AM

FIRST ROUND AT 8:30 AM - NOTE THE EARLY START TIME!!

Starting flight group to be decided at the pilots' meeting.

GLIDERNET
by Manny Tau

I guess some of you are thinking that this article might have something to do with an alternative landing procedure for gas-baggers. Well, it's actually about 2 meter amateur (ham) radios, ham band frequencies, and site updates.

My friends and I have been talking about switching over to ham band frequencies (6 meters) for our radios. We also found out that this year, a new change in the regulations has made it easier to become licensed as a ham radio operator. The new no-code Technician class requires passing only two relatively easy tests, and eliminated the 5 words per minute Morse Code requirement. If you want to find out more specifically about this, just drop into a Ham Radio Outlet store (Anaheim, San Diego) and pick up the available literature and study books. Now to get to the interesting part.

A bunch of us fly in different locations throughout San Diego, Orange, and L.A. counties. Some are slope sites, and others are thermal sites. How's this for an idea. Let's say that a group of flyers have hand-held 2 meter (popular band) transceivers - costing around \$325 apiece - and have chosen a repeater that will reach out to the various counties. We can then set up a special interest group, a GliderNet, which will make contact with one another at predetermined times. The times might be set at every hour on the hour starting at 10 AM on both Saturday and Sunday. We can then tune in with our radios at these times, and call out for each other or anyone associated with the GliderNet to get updates on flying conditions at each flying

site. We could also find out about local get-togethers or contests, and pretty much stay in immediate contact with the RC soaring community. I'm currently studying for the tests, and have been listening in on the 2 meter band with a scanner. These people like to talk about all sorts of things, much akin to the popularity of CB radios about 10 years ago. So I think to myself, why not fill the airwaves with soaring related chatter.

There have been times when I could have utilized immediate status reports on the various local sites. Well, I'm interested in obtaining feedback from people who are interested in the GliderNet proposal. For those who aren't already licensed hams, it will take an initial cash investment and a couple of weeks to study for the exam. To let me know that you're interested, leave me a message on my answering machine (714 492-9553) with your name, phone number, and call sign if you already have one. I'll then re-evaluate the viability and let you folks know the results.



Sailing away on HSS Bay
Spring 1992

Tips from Competition Products
on Cutting Foam Wings

- by Ed Berton

(continued from last month)

Stainless steel wire is not as good a conductor as NICHROME, and you will probably require a higher voltage to maintain the same wire temperature. The trick is to tighten the wire under heat. CAUTION - WEAR EYE PROTECTION!!! MOVE AWAY FROM THE BOW, THEN TURN THE HEAT OFF!! IF THE WIRE IS TOO TIGHT IT WILL BREAK WHEN IT COOLS. STAY AWAY FROM THE BOW WHILE IT IS COOLING!!! As you do this several times you will get the feel as to how tight is tight enough. The simple way to tighten the wire is to STOP just before it breaks!! Wire sag or drag is the result of two factors: temperature and cutting speed. If the wire remains at a constant temperature or voltage, varying the speed will increase or decrease the wire sag. The opposite is true if you vary the voltage and maintain a constant speed. Why should we be so concerned about wire sag? Why not cut at a speed and voltage setting that will eliminate all sag? Wire sag is THE most important factor in cutting accurate cores!! It is the ONLY way to maintain a consistent amount of "wire burn". "Wire burn" is the amount of foam melted by the hot wire. If cutting speed is held constant the hotter the wire the more foam will be melted. We are now starting to touch on the CONSISTENCY problem. How do you know how much foam is being melted by the wire and how do you keep it the same on every cut? This becomes VERY important when you cut the trailing edge of a 9% sailplane airfoil.

Failure to control "wire burn" can change the trailing edge from thin to thick, it can also melt away the trailing edge and change the chord of the wing core 1/4"! The first rule in cutting ANY size core is: ALWAYS HAVE WIRE SAG! The amount of sag will depend on the length of the core. A 68 - 72 inch wing core should have a sag of about 1/16". This means the hot wire at the center will lag 1/16" behind the wire at the root and tip. A shorter core should have less sag.

Keep the following rules in mind regardless of the length of the core:

1. Always have a small amount of wire sag.
2. Keep the hot wire as tight as possible.
3. Use wire speed OR wire temperature to control wire sag.

The following is a good practice procedure that does not use a lot of foam.

Start cutting 1/8" thick slices on an 8" wide x 36" long block of foam. Make sure you always have a little WIRE SAG and that the 1/8" thick slice when removed from the block is FLAT!! It's easy to cut the 1/8" thick slice, it's another thing to cut it flat. You will have to adjust speed and or temperature to get flat slice.

Now adjust your cut to 1/64" - 1/32" thick. When you can remove a flat slice that thin from a 72" long block you can cut any length core your heart desires! If you have trouble getting your cut that thin, don't worry about it, there are foam machines that can not do that one. However, practice the 1/8" thick cut and get it flat. Adjust wire speed to maintain wire sag as you will be able to see your wire sag through the 1/8" thick foam.

Tips on Cutting Foam Wings
- continued

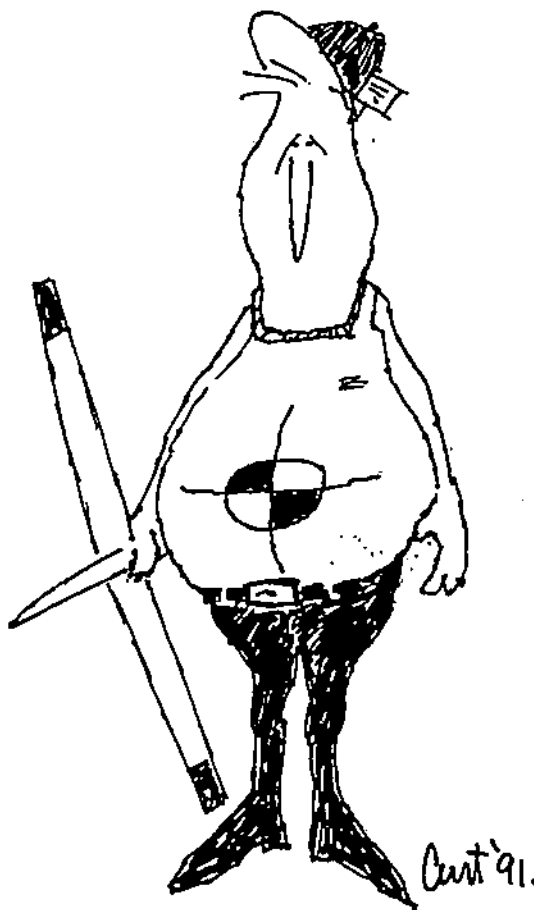
While we are on the subject of wire burn and wire sag, a few comments about a foam cutting machine. A good machine should have a variable speed motor control to operate the bow and a variable power supply for the wire. This combination allows you to have complete control of "WIRE SAG" and "WIRE BURN". Once a machine is set up, it can cut 40 - 60 cores an hour, double that quantity for stabilizer cores! One might think a foam cutting machine with this speed and consistency is only for a manufacturer: not so. A foam cutting machine offers one additional advantage, perfection! Anyone who has built foam wings has seen cores with ridges that run from root to tip. These ridges come from either poor templates or a CHANGE IN WIRE SPEED, mostly from the latter. This happens when two people are cutting a core and one speeds up or slows down to maintain alignment in order to have a true airfoil. A motor operated foam machine cuts cores to perfection because wire speed is always constant. Also, remember that a good machine is a one person operation no matter how long the core is!

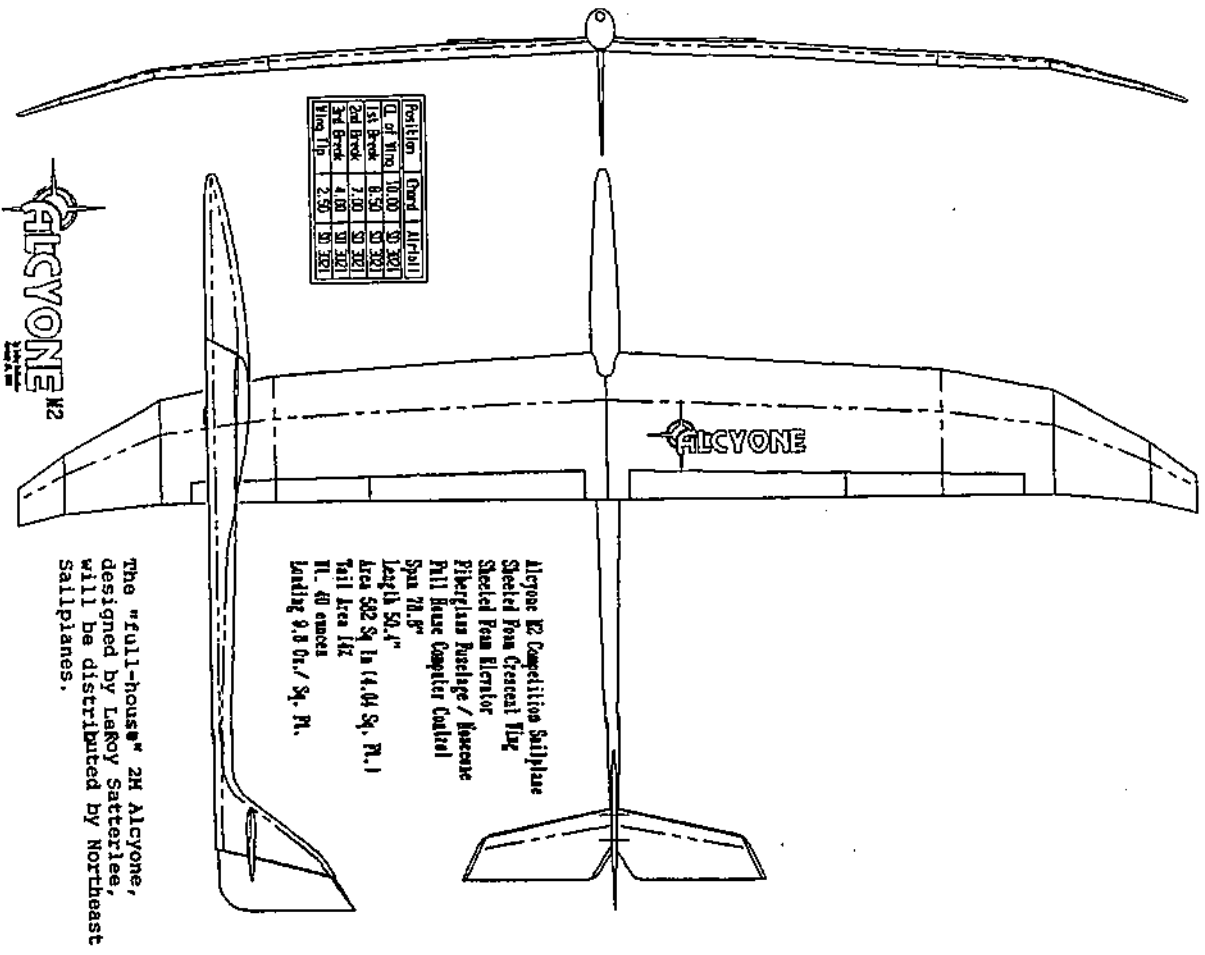
- This article, originally published in Northeast Sailplane Product's 1990 catalog, is reprinted by permission of the author. Ed produces two fine sailplane kits, the 2M Mariah and the Unlimited class Phoenix.

VIDEO LIBRARY

NEW: Soaring in England, visit to the ASW factory ****!
RC Video Magazine
Striking Back - Byron Air Show ****
Foam, Fiberglass, Flight ****
Tournament of Champions, 1988
How to Monokote, parts 1 & 2
MIG Killers ****
Hook Down, Wheels Down ****
F3E - Bridgeman's airplane
Electric Flight
Dawn Patrol - WWI movie ****
Thunderbolt, Fight for the Skies
1988 F3E USA Team Finals
The Quiet Challenge/Running on Empty B1
AMA Today - 1990
R/C Park of Costa Mesa
Fighting Sabre Jets

Number of *'s indicates a reviewer's opinion. All tapes are VHS format. Contact Dick Johnson for more info.





PSS SC² AUGUST CONTEST

AUGUST 16TH

THREE ROUND ADD-EM-UP WITH 1SF LEVEL II LANDING

THREE ROUNDS TO MAKE 21 MINUTES WITH NO ONE ROUND OVER 8 MINUTES. PENALTY OF 8 POINTS PER SECOND FOR ANY TIME OVER 8 MINUTES. LANDING WILL BE 1 1/2 METER CIRCLE FOR 50 POINTS IN OR OUT

TOTAL POINTS 3000 SCORED AT 2.262 POINTS PER SEC.

CONTEST WILL START AT 9:00 AM
 PILOTS MEETING 8:45 AM
 ALL ROUNDS WILL BE OPEN FLIGHT ORDER WITH TIME LIMITS

WE WILL FINISH THIS CONTEST BY 2:00 PM
 CONTEST WILL BE HELD AT THE PASADENA ROSE BOWL FIELD

\$6.00 ENTRY FEE
 LIMITED TO AMA MEMBERS
 CD: BEN MATSUMOTO (818) 798-1662
 ALL STANDARD RULES FOR SC² SHALL APPLY

CENTRAL VALLEY R/C SOARING CLUB

Presents The

19th Annual FALL SOARING FESTIVAL

October 3rd and 4th, 1992

- Saturday:** First round - 3 minute precision/duration
1-point per second under 3-points per second over.
Second round - 5 minute Precision/duration, same penalty.
Third round - 7 minute precision/duration, same penalty.
Fourth round - 4 minute precision/duration, same penalty.
- Sunday:** First round - 2 minute precision/duration, 3-points per second
under 1-point per second over.
Second round - 6 minute precision/duration 1-point per second
under 3-points per second over.
Third round - 8 minute precision/duration, same penalty.
- Landings:** 6x28 foot runway divided into 3 parts max score 25% of flight
score 4' section, 8' section 15% of flight score, 16' section 10%
of flight score. (Landing past foul line -25%)
- Site:** New CVRC flying field Rd.80 and Ferguson 1-1/2 miles north of Hwy.
198. Turn east on Ferguson 1/2 mile.
- Entry:** \$27.50 (Non-Refundable, Non-Transferable) Please don't ask. No
entry postmarked before 8/1/92 will be accepted. Use only stamps,
no metered mail will be accepted. You must declare your AMA
Charter club affiliation on your entry form, no changes will be
allowed after entry is recieved. Send entry to C.D.'s Address.
- Awards:** 1st through 10th, 1st place team (4)
- BBQ:** \$8.50 With live entertainment at the field.
- Raffle:** Unbelievable
- T-Shirts:** We will have T-Shirts available again this year if you would like
one they will be \$12.00 Please send with your entry.
- C.D.:** Phil Hill
1966 Plymouth
Tulare, Ca. 93274
(209) 686-8867
- ASST. C.D.:** Larry Taylor
1944 E. Paradise
Visalia, Ca.93277
(209) 627-8808

1992 Fall Soaring Festival

Entry Form

Name _____ A.M.A.# _____ Club _____
Address _____ City _____ State _____ Zip _____
Phone _____ LSF Level _____ Freq. #1 _____ #2 _____ #3 _____
(BBQ \$8.50x _____)+(T-Shirts \$12.00x _____)=\$ _____
Entry \$27.50
T-Shirt size/Qty.: Med _____ Lg _____ XLg _____ XXLg _____ Total \$ _____

HARBOR SOARING SOCIETY
JULY CONTEST
OPEN CLASS

PLACE	NAME	CLASS	SCORE	NORMALIZED	TROPHY
1	CLERK BEN	EXPERT	1349.0	1000.0	1ST. EXP.
2	LACKEY ROGER	EXPERT	1345.0	997.0	2ND. EXP.
TIE 3	CHASTELER FRANK	EXPERT	1344.0	996.3	3RD. EXP.
TIE 3	FINK STEVE	EXPERT	1344.0	996.3	3RD. EXP.
5	DANRICH DAN	ADVANCED	1293.0	958.5	1ST. ADV.
6	MARKLE JIM	GUEST	1289.0	855.5	
7	BOESE JIM	ADVANCED	1264.0	837.0	2ND. ADV.
8	CRON AL	EXPERT	1261.0	934.8	
9	STOKER PAT	EXPERT	1233.0	918.5	
10	YOUNG PETE	SPORTSMAN	1233.0	914.0	1ST. SPTS.
11	SMITH MORRY	ADVANCED	1222.0	905.9	
12	GERMANE BRIAN	ADVANCED	1204.0	892.5	
13	THOMAS ROSS	EXPERT	1194.0	885.1	
14	ZINK DON	EXPERT	1185.0	878.4	
15	RICHARDSON PETE	EXPERT	1181.0	875.5	
16	PARSONS JIM	ADVANCED	1148.0	851.0	
17	RITSCHKE GORDON	EXPERT	1144.0	848.0	
18	DUNCAN BILL	ADVANCED	1140.0	845.1	
19	NEHRING CURT	ADVANCED	1127.0	835.4	
20	AGUIRRE MIKE	SPORTSMAN	1091.0	808.7	2ND. SPTS.
21	PANTZAR DICK	EXPERT	1057.0	783.5	
22	NEMECEK DAVID	EXPERT	998.0	738.6	
23	SANDERS ANDY	SPORTSMAN	887.0	731.7	
24	CLARKE GEORGE	SPORTSMAN	886.0	730.9	
25	BONNAND TONY	GUEST	870.0	718.1	
26	MONAHAN SEAN	ADVANCED	852.0	705.7	
27	WILHITE CONNIE	SPORTSMAN	809.0	673.8	
28	WHITE LARRY	EXPERT	780.0	585.6	
29	YOUNG BRETT	ADVANCED	441.0	326.9	

TWO-METER CLASS

PLACE	NAME	SCORE	NORMALIZED	TROPHY
1	DUNCAN BILL	1267.0	1000.0	1ST.
2	LACKEY ROGER	1261.0	995.3	2ND.
3	STOKER PAT	1189.0	948.3	3RD.
4	THOMAS ROSS	1123.0	898.3	
5	MONAHAN SEAN	1044.0	824.0	
6	WHITE LARRY	954.0	753.0	
7	AGUIRRE MIKE	922.0	727.7	
8	CLARKE GEORGE	704.0	555.6	
9	PARSONS JIM	548.0	432.5	

CONTEST CALENDAR

July 26 SC2 @ HSS
 August 1 SULA/EDSF/HSS Fun-Fly
 August 9 HSS Monthly
 August 16 SC2 @ PSS
 September 6 HSS Monthly
 September 27 SC2 @ ISS
 October 3-4 Visalia Fall Festival
 October 11 HSS Monthly
 October 25 SC2 @ SWSA
 November 7-8 Astro Champs, Mile Sq
 November 15 HSS Monthly
 November 22 SC2 @ TOSS
 December 6 HSS Monthly

ANNUAL STANDINGS
OPEN CLASS

PLACE	NAME	CLASS	SCORE	CONTESTS
1	CRON AL	EXPERT	4343.3	3
2	THOMAS ROSS	EXPERT	4288.1	5
3	LACKEY ROGER	EXPERT	4228.9	5
4	CLERK BEN	EXPERT	3856.2	4
5	DUNCAN BILL	ADVANCED	3850.8	5
6	RITSCHKE GORDON	EXPERT	3943.4	5
7	BOESE JIM	ADVANCED	3829.1	5
8	NEMECEK DAVID	EXPERT	3772.7	5
9	ZINK DON	EXPERT	3512.1	5
10	WHITE LARRY	EXPERT	3480.3	5
11	AGUIRRE MIKE	SPORTSMAN	3407.1	4
12	KUTCH NORM	EXPERT	3334.9	4
13	NEHRING CURT	ADVANCED	3284.8	4
14	PANTZAR DICK	EXPERT	2950.7	4
15	GERBIN ROBERT Jr	EXPERT	2947.1	3
16	CHASTELER FRANK	EXPERT	2836.5	3
17	HENDRY STEVE	EXPERT	2878.9	4
18	FINK STEVE	EXPERT	2820.4	4
19	WILHITE CONNIE	SPORTSMAN	2525.3	3
20	SCHEER PAT	SPORTSMAN	2472.1	4
21	POULSEN GORDON	EXPERT	2457.0	4
22	BUZOLICH NICK	SPORTSMAN	2207.3	3
23	SMITH MORRY	ADVANCED	2115.1	3
24	YOUNG BRETT	ADVANCED	2089.8	4
25	RICHARDSON PETE	EXPERT	2026.8	3
26	YOUNG PETE	SPORTSMAN	1720.8	2
27	SANDERS ANDY	SPORTSMAN	1494.4	2
28	PARSONS JIM	ADVANCED	1383.5	2
29	CLARKE GEORGE	SPORTSMAN	1241.9	2
30	AZVEDO GEORGE	SPORTSMAN	1200.2	2
31	EDBERG DON	EXPERT	988.8	1
32	BIDDLE FRED	EXPERT	962.4	1
33	MONAHAN SEAN	ADVANCED	850.3	3
34	DANRICH DAN	ADVANCED	858.5	1
35	MARTIN TONY	EXPERT	832.7	1
36	STOKER PAT	EXPERT	818.5	1
37	GERMANE BRIAN	ADVANCED	892.5	1
38	HAWLEY ED	SPORTSMAN	868.0	1
39	SLIFF BOB	EXPERT	887.6	1
40	LONG DICK	ADVANCE	817.9	1
41	STOKER PAT	EXPERT	813.4	1
42	SCHOFRO STEVE	SPORTSMAN	594.3	1
43	LAIR DAN	SPORTSMAN	553.3	1
44	SEMMELMAYER ERIC	SPORTSMAN	525.5	1
45	BRANDT DENNIS	EXPERT	485.4	1
46	DUPHAM JACK	EXPERT	483.4	1
47	ROWELL WAYNE	SPORTSMAN	453.9	1
48	GROSVENOR WOODY	SPORTSMAN	391.1	1
49	RAMSAY DON	SPORTSMAN	183.7	1

ANNUAL STANDINGS
TWO-METER CLASS

PLACE	NAME	SCORE	CONTESTS
1	WHITE LARRY	4284.0	5
2	LACKEY ROGER	4086.9	5
3	THOMAS ROSS	4078.0	5
4	DUNCAN BILL	3760.5	5
5	KUTCH NORM	3676.2	4
6	AGUIRRE MIKE	3222.8	4
7	MONAHAN SEAN	2052.2	3
8	YOUNG BRETT	1887.4	2
9	SCHEER PAT	1481.8	2
10	FINK STEVE	1281.3	3
11	PARSONS JIM	1028.9	2
12	YOUNG PETER	994.5	1
13	STOKER PAT	948.3	1
14	MARTIN TONY	880.0	1
15	SCHOFRO STEVE	874.0	1
16	STOKER PAT	868.4	1
17	BRANDT DENNIS	844.8	1
18	SLIFF BOB	824.9	1
19	LONG DICK	753.3	1
20	NEHRING CURT	752.1	1
21	BUZOLICH NICK	591.6	1
22	CLARKE GEORGE	555.6	1
23	SEMMELMAYER ERIC	551.6	1
24	CONRAD WILL	531.7	1
25	HENDRY STEVE	470.8	1
26	RAMSAY DON	141.4	1
27	RICHARDSON PETE	0.0	0
28	ZINK DON	0.0	1

SOUTHERN CALIFORNIA SOARING CLUBS
CONTEST OF JUNE 28, 1992

PLACE	NAME	CLUB	CLASS	SCORE	NORMALIZED	TROPHY
1	CLERK BEN	HSS	EXPERT	2965.0	1000.0	1ST. EXP.
2	REAGAN MIKE	TOSS	EXPERT	2941.0	891.9	2ND. EXP.
3	ATWELL BLAIR	SULA	EXPERT	2933.0	899.2	3RD. EXP.
4	SAGE FRED	NCC	EXPERT	2914.0	882.8	4TH. EXP.
5	LUEKEN JIM	NCC	EXPERT	2910.0	891.5	5TH. EXP.
6	WEISMAN EDGAR	TOSS	EXPERT	2878.0	870.0	
7	STAFFORD RV	NCC	EXPERT	2867.0	866.9	
8	FINKENBINER KEITH	NCC	EXPERT	2855.0	862.9	
9	CONWAY PATRICK XX	TPG	SPORTSMAN	2844.0	859.2	1ST. SPTS
10	STROBEL RICH	TPG	EXPERT	2843.0	858.8	
11	ANDERSON GARY	TPG	EXPERT	2837.0	856.8	
12	LACKEY ROGER	HSS	EXPERT	2835.0	856.2	
13	RAYMOND KEN	NCC	EXPERT	2835.0	856.2	
14	SUFF BOB	HSS	EXPERT	2830.0	854.5	
15	RODRIGUEZ JOE	ISS	EXPERT	2821.0	851.4	
16	MORTON RICHARD XX	TPG	SPORTSMAN	2804.0	845.7	2ND. SPTS
17	CONDON SCOTT XX	TPG	SPORTSMAN	2795.0	842.7	3RD. SPTS
18	TAU MANNY	HSS	SPORTSMAN	2760.0	841.0	
19	SADOFF STAN	ISS	EXPERT	2775.0	835.9	
20	MARTIN TONY	HSS	EXPERT	2743.0	825.1	
21	DOUGLAS IAN	SWSA	EXPERT	2719.0	817.0	
22	LEVOE MARK	PSS	EXPERT	2708.0	813.3	
23	FINK DAN	SULA	EXPERT	2705.0	812.3	
24	JOY GEORGE	TPG	EXPERT	2688.0	809.3	
25	CRON AL	HSS	EXPERT	2688.0	806.8	
26	CHILD MARK XX	EDSF	SPORTSMAN	2674.0	801.9	
27	MENENBERG KEN	NCC	EXPERT	2674.0	801.9	
28	WILSON DAN XX	EDSF	SPORTSMAN	2665.0	808.8	
29	PUGHASKI MARK	SULA	EXPERT	2648.0	892.4	
30	SPITZER GEORGE	PSS	EXPERT	2644.0	891.7	
31	FAULKENHAM RON XX	HSS	SPORTSMAN	2631.0	887.4	
32	DOG AL	NCC	EXPERT	2606.0	878.9	
33	AKERS THOMAS	TOSS	EXPERT	2601.0	877.2	
34	JOY BRYAN XX	TPG	SPORTSMAN	2575.0	868.5	
35	SMITH STEVE	DUST	SPORTSMAN	2567.0	865.8	
36	MARKLE JIM	SULA	EXPERT	2568.0	865.4	
37	FINK STEVEN	SULA	EXPERT	2538.0	856.3	
38	BLEDLOE RICHARD	TPG	EXPERT	2531.0	853.6	
39	DUNCAN BILL	EDSF	SPORTSMAN	2497.0	842.2	
40	THOMAS HOSS	HSS	EXPERT	2498.0	841.8	
41	WAGER MARVIN	TPG	SPORTSMAN	2454.0	827.7	
42	AVESON BRUCE	SWSA	SPORTSMAN	2448.0	825.6	
43	VAN GUNDY DON	TPG	EXPERT	2392.0	806.7	
44	WARNER GARTH	NCC	EXPERT	2385.0	797.8	
45	CROCK JIM	ISS	SPORTSMAN	2340.0	789.2	
46	ANDERSON ROBERT	TPG	EXPERT	2338.0	787.9	
47	CLARKE GEORGE	HSS	SPORTSMAN	2318.0	781.8	
48	AGUIFFE MIKE	HSS	SPORTSMAN	2298.0	775.4	
49	BLIKOVICH DAVID	PSS	SPORTSMAN	2285.0	774.0	
50	BECKER JOHN	NONE	SPORTSMAN	2271.0	765.9	
51	MONAHAN SEAN XX	HSS	SPORTSMAN	2253.0	759.9	
52	BRISTER KEVIN	TPG	SPORTSMAN	2219.0	748.4	
53	RICHMOND DON	TPG	SPORTSMAN	2178.0	733.9	
54	WHITEFORD ANDREW	EDSF	SPORTSMAN	2162.0	729.2	
55	SHELBY RICK	NCC	SPORTSMAN	2058.0	694.4	
56	CONDON STEPHEN	TPG	SPORTSMAN	2049.0	691.1	
57	DROUGHT GEOFF	EDSF	SPORTSMAN	1769.0	566.8	
58	YOUNG PETER	HSS	SPORTSMAN	1574.0	530.9	
59	HENDRY STEVE	HSS	EXPERT	1503.0	506.9	
60	BLZOUCH NICK	HSS	SPORTSMAN	1288.0	434.4	
61	FRASER ROGER	TPG	SPORTSMAN	1288.0	434.4	
62	KUTCH NORM	HSS	EXPERT	1258.0	424.3	
63	KLATSKIN BILL	SULA	SPORTSMAN	1178.0	396.6	
64	SMITH MICHAEL	NCC	EXPERT	970.0	327.2	

*PAT CONWAY MOVES TO EXPERT

TEAM SCORES

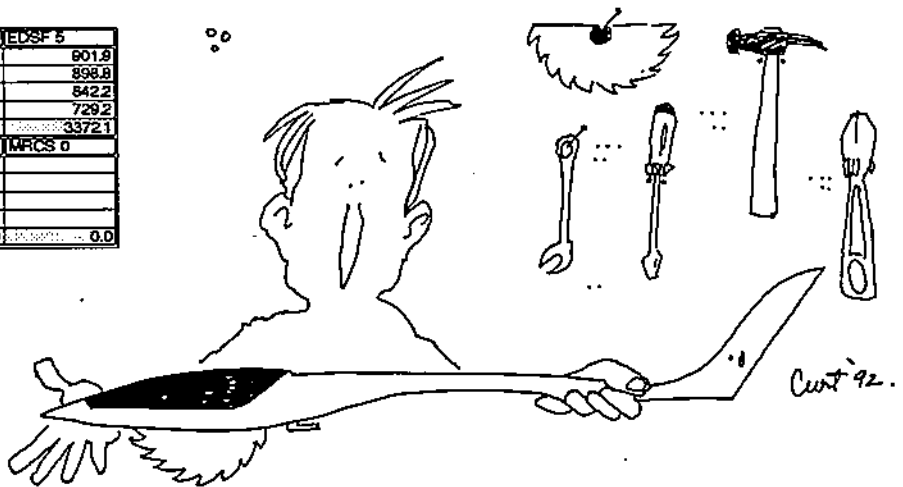
NCC 10	HSS 13	TPG 15	SULA 7	ISS 4	EDSF 5
982.8	1000.0	959.2	899.2	851.4	801.9
981.5	956.2	858.9	812.3	835.9	898.8
966.9	954.5	856.8	892.4	887.4	842.2
962.9	841.0	845.7	865.4	789.2	729.2
3894.1	3851.7	3820.6	3659.3	3563.9	3372.1
TOSS 3	PSS 3	SWSA 2	DUST 1	SPVF 0	MPCS 0
881.9	813.3	817.0	885.8		
870.0	891.7	825.6			
877.2	774.0				
2838.1	2578.0	1742.6	885.8	0.0	0.0

SOUTHERN CALIFORNIA SOARING CLUBS
ANNUAL STANDINGS BEST 4 OF 4 CONTESTS

PLACE	NAME	CLASS	SCORE	CONTESTS	CLUB
1	ATWELL BLAIR	EXPERT	3897.9	4	SULA
2	JOY GEORGE	EXPERT	3885.8	4	TPG
3	LACKEY ROGER	EXPERT	3828.2	4	HSS
4	ANDERSON GARY	EXPERT	3818.4	4	TPG
5	FINKENBINER KEITH	EXPERT	3756.6	4	NCC
6	SPITZER GEORGE	EXPERT	3735.3	4	PSS
7	REAGAN MIKE	EXPERT	3704.6	4	TOSS
8	LEVOE MARK	EXPERT	3691.1	4	PSS
9	RAYMOND KEN	EXPERT	3690.8	4	NCC
10	SUFF BOB	EXPERT	3618.8	4	HSS
11	STROBEL RICH	EXPERT	3575.9	4	TPG
12	MARKLE JIM	EXPERT	3558.0	4	SULA
13	RODRIGUEZ JOE	EXPERT	3528.1	4	HSS
14	SMITH STEVE	SPORTSMAN	3410.6	4	DUST
15	SADOFF STAN	EXPERT	3365.4	4	HSS
16	FINK STEVEN	EXPERT	3344.8	4	SULA
17	SAGE FRED	EXPERT	3241.3	4	NCC
18	THOMAS HOSS	EXPERT	3223.4	4	HSS
19	VAN GUNDY DON	EXPERT	3223.3	4	TPG
20	MONAHAN SEAN XX	SPORTSMAN	3135.6	4	HSS
21	EDBERG DON	EXPERT	2978.8	3	HSS
22	CLERK BEN	EXPERT	2977.4	3	HSS
27	ZINK DON	EXPERT	2713.2	3	HSS
30	KUTCH NORM	EXPERT	2652.7	4	HSS
32	NEHRING CURT	SPORTSMAN	2615.2	3	HSS
38	YOUNG BRETT	SPORTSMAN	2477.0	3	HSS
47	HENDRY STEVE	EXPERT	2176.9	3	HSS
48	AGUIFFE MIKE	SPORTSMAN	2128.7	3	HSS
53	MARTIN TONY	EXPERT	1924.4	2	HSS
54	CHASTELET FRANK	EXPERT	1893.6	2	HSS
59	TAU MANNY	SPORTSMAN	1787.3	2	HSS
61	BLZOUCH NICK	SPORTSMAN	1741.3	3	HSS
63	CRON AL	EXPERT	1721.1	2	HSS
64	GERBIN JR ROBERT	EXPERT	1694.2	2	HSS
71	YOUNG PETER	SPORTSMAN	1578.5	3	HSS
82	BOESE JIM	SPORTSMAN	820.2	1	HSS
107	CLARKE GEORGE	SPORTSMAN	781.8	1	HSS
124	PARSONS JIM XX	SPORTSMAN	649.0	1	HSS
131	POULSEN GORDON	EXPERT	605.8	1	HSS
135	KIELTYKA MAC	SPORTSMAN	582.0	1	HSS
144	SCHERR PAT	SPORTSMAN	358.3	1	HSS

YEAR-TO-DATE CLUB STANDINGS

CLUB	SCORE	CLUB	SCORE
HSS	15,412.4	TOSS	10,532.8
TPG	15,188.5	EDSF	8,372.8
NCC	14,861.4	DUST	7,617.6
SULA	14,309.1	SWSA	6,265.6
ISS	14,006.7	SPVF	1,928.7
PSS	13,929.7	MPCS	1,467.3





The Oldest Chartered
Soaring Club
in the
A.M.A.



Charter # 128

AUGUST MEETING

DATE: Wednesday, August 5, 1992
at 7:30 PM.

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

GUEST SPEAKER: Clubmember MAC
KIELTYKA will "show and tell"
the STINGER SC, a high-
performance scale sloper that
he is kitting!



P.O. Box 1673
Costa Mesa, CA 92628



FIRST CLASS MAIL

WILL CONRAD
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FOUNTAIN VALLEY, CA 92708