TOSS -- UP



NEWSLETTER

JUNE 1992

844 CHARLES STREET,

MOORPARK, CA. 93021

A.M.A. CHARTERED CLUB # 1943

EDITOR: BOB SWET

2600 PONDEROSA DRIVE, #15

CAMARILLO, CA. 93010

PRESIDENT:

Mike Leal 844 Charles Street Moorpark, CA 93021 (805) 529 - 7535

VICE PRESIDENT:

Thomas Akers 1583 Wakefield Ave. Thousand Oaks, CA 91360 (805) 496 - 6655

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TREASURER:

Bob Swet 2600 Ponderosa Dr., #15 Camarillo, CA 93010 (805) 388 - 9619

CLUB WINCHES:

Thomas Akers (805) 496 - 6655 Mike Leal (805) 529 - 7535 Edgar Weisman (805) 496 - 0611

NEXT CLUB CONTEST:

Date Saturday, JULY 12, 1992
Place Redwood School, T.O.
Time 9:00 a.m.
C/D Myles Moran

NEXT CLUB MEETING:

Date JUNE 30th. 1992
Day TUESDAY
Place Cameron House

Time 7:30 p.m.

TOSS MEETING NOTES FOR MAY

There are no meeting notes for the May 26th meeting. It seems that Larry J. lost them. Since I can't remember anything either, we can assume that nothing earth shattering was discussed.

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TREASURER'S REPORT

We have \$730.17 in our account. Please turn in all score cards and contests funds to me after each contest. THANKS ---Bob---

DELTA CUB CONTEST

Well, we pulled it off again. On May 30th, we had another successful Delta Cub contest thanks to our sponsors and participants. Mother nature even cooperated and provided us with one of those nearly perfect California days of bright sun, nice temperature and a gentle breeze.

Armed with our glue, knives, building boards, planes and prizes, we stormed into the western town at Paramount Ranch and set up shop at the Pavilion. The early morning groups turned out small and allowed us to prepare without much pressure. It also provided us with a chance to teach a few new instructors. This proved to be quite helpful. Little did we know, there was to be soon to be about 30 young Girl Scouts to try their hand at building the balsa and tissue, rubber band powered planes.

We taught the girls how to build and fly the planes while they taught us that girls could enjoy the activity as much as boys. At times, it was difficult to identify who was having the most fun, the little kids or the grown up ones. Thanks to some new techniques and tools, the construction went quick and easy.

Finally, it was time for the fly off, a time to test all our endeavors. At this contest, it was decided to give one prize per round based on whose plane stayed in the air the longest. This worked out easier for the judges and gave everyone a better chance to win. With almost everyone flying every round, seven prizes were distributed among six winning contestants. No one really looses in this contest, for everyone takes home the plane that they had built and the memories of the morning.

Many thanks go to the contest sponsors, instructors and contestants. Without them, this enjoyable event would not be possible. A special thanks goes to John Van Hamersveld for designing, building and bringing wing dihedral jigs. They certainly made a difficult task into child's play.

I hope everyone is looking forward to the next one scheduled in November as much as I am. - Bob -

DELTA CUB SPONSORS

The Red Baron, Camarillo Radiowave Hobbies, Ventura Marty's Hobbies. Thousand Oaks Blue Max Hobby Distributor. Oxnard National Park System. Agoura

WELCOME ABOARD

We would like to welcome aboard our newest member - Gary Rake. He claims to be just starting, but Just remember, TOSS is out there to help you, so if you have a question, grab your phone and give a member a call.

IMPORTANT DATES TO REMEMBER

For the months of July, August, and September - we will be meeting the last THURSDAY of the month. July 30th. August 27, and September 30th.

UPCOMING EVENTS

July 12 - CVRC New Field Grand Opening - Picnic and Friendship Fun Fly

July 28 - SWASA "Giant Swap Meet" - 7:30 PM at the Pomona First Federal Savings & Loan, Glendora

August 29 - Chino Nightfly

Sept 20 - TPG Handlaunch, Poway

October 3 & 4 - Visalia Fall Soaring Festival

CONVERSION FACTORS

For all those that have Casio watches that give you Standard Altitude and atmospheric pressure or those using vacuum

pumps, here are some conversion factors (at 0 degrees centigrade) for you.

1 Atmosphere = 29.92 inches of mercury

1 Atmosphere = 14.7 pounds/square inch

1 Atmosphere = 1013.1 millibars

1 inch of mercury = 33.86 millibars

1 inch of mercury = 0.4912 pounds/square inch

1 inch of mercury = 70.73 pounds/square foot

1 pound/square inch = 144 pounds/square foot

FOR SALE

Bob Martin Talon slope plane, new in box, will trade for used S-133 servo or best offer call James Cowley (805)-568-0077.



SPONSORED BY: HARBOR SOARING SOCIETY

DATE: SATURDAY, AUGUST 24, 1991 (MAKE-UP AUGUST 25)

LOCATION: FAIRVIEW PARK BLUFFS WEST OF H.S.S. FIELD

ENTRY FEE: \$5.00

CONTEST DIRECTOR: KEITH McLELLAN (714) 832-9257

REGISTRATION: 11:00 A.M.

The race will be flown on Saturday, allowing a continuation on Sunday if weather or other factors do not cooperate.

Pilots may compete in <u>only one</u> of two divisions. Division 1 is for the more experienced pilots or competitive planes while Division 2 is aimed at those who want to experience a slope race without the burden or expense of special models or equipment.

Division 1: OPEN CLASS (Any model type or size)

No wing-loading limit 8 Laps, around 3 pylons

Division 2: Rudder/Elevator only (spoilers ok)

No size limit No wing-loading limit 6 laps, around 2 pylons

The following rules apply to both divisions:

3 Rounds of competition, plus fly-offs for ties

4 planes per heat maximum

1st. place finisher in each heat is timed
In the event of a frequency conflict in a fly-off, each pilot may be required to fly for time if no other solution exists

All pilots must be current A.M.A. members
All models must display pilot's A.M.A. number (minimum 1 inch high)

All radios must be 1991 Gold-stickered

For further information, contact Keith McLellan or Ed Resetar at (714) 832-9257

06/16/92 1992 THOUSAND OAKS SOARING SOCIETY PREQUENCIES

LAST	FIRST	FREQUENCIES
AKERS	TUOMA C	40, 44, 12
ARNOLD	DENNIS JIM NICE	22, 44
BENNETT	JIM	46 6 METER: 56.
BOYNTON	JIM	49
BUZOLICH	NICE	22, 42, 16, 17, 30
DEAPIN	ממ	18, 19
BLLIAS	JOHN	20
GEOHAGAN		40 6 METER: 53.2
GRISWOLD		22
HARTMAN	RICHARD	44, 46, 48, 52, 54, 56
HINMAN	RICHARD STAN & BILL	- 28
JIMENEZ	LARRY	18, 34, 56
KIM	SONNY	56
	FRANK & KYLB	22, 52
	#PDD#	37 6 METER:
LEAL	TERRY MICHAEL FRANK	20, 24, 28
LURRA	FRANK	30, 24, 42 -
MICHITSCH	ROBERT	40, 44, 38, 48
MORAN		
	RALPH	32, 38, 34, 42, 46, 50, 56, 18
Menambe	ART	40 6 METER: 56.
MONAMER	DON	54
NORTHERN	DON	40, 48, 52, 42, 54
OLDENBURG	RD.	6 METER: 53.3
		34
RAKE	DAVID GABY	26
RATNER	MTCHARL	16, 17, 30
REAGAN	MTRR	40
ST. LAWRENCE		28, 48
CTVDU	MTCHARI.	
STERN SUTTON	MICHAEL ROBERT & BOB JR.	38, 40, 44
SWET	ROR	16, 31, 34, 42, 54
VAN HAMBESVELD		28, 32, 40, 46, 50
VANNETT		14, 19, 50, 54
	BOB	16, 46, 50, 52
	JIM	40
#10013	UD#	••
	BDGAR and B.J.	32, 12, 48 22

A NEW WING ROD MATERIAL

By: Bob Bayard

Recently some of the SBSS builders have discovered a new wing rod material, a series of fiberglass rods available at TAP Plastics in sizes of 1/8", 1/4", 3/8", 1/2", 3/4" and 1". You can get a six foot length of any of them for a few dollars. (Six feet of 1/2" costs only \$6.) So I decided to get a few sizes and see how they stand up to the steel and carbon fiber rods that Dave Squires and I measured recently (Silent Flyer, June 1991).

I measured the strengths of 1/4", 3/8" and 1/2" rods of this material using the same sort of setup that Dave and I used on the other kinds of wing rod material. The moments at failure for these three rod sizes are given in Table 1. Each of the samples failed in both tension and compression, i.e. buckling of the upper or compression fibers and breaking of the lower or tension fibers. However, and this could be very important, none of them snapped in two the way the carbon fiber samples did. Instead, the center fibers did not break, leaving a much weaker but still unbroken rod. Also shown in the table are the bending angles for these samples just before breaking. The unsupported length of rod in each case was 1/4". These bending angles are quite large enough to be easily noticed on launch by even the most carefree gorillas.

Surprisingly, these samples are not a lot weaker than the carbon fiber rods. The data for carbon fiber rods are given in Table 2. In fact, the 1/2" fiberglass rod was actually stronger than the same sized carbon fiber rod. Also, the relation of bending moment at failure to the cube of the diameter is much more consistent for the fiberglass rods than it was for carbon fiber, as can be seen in the tables. (The moment divided by diameter cubed should theoretically be the same for all sizes of a given rod material.)

How can it be that the failures in these rods are so close to those for the carbon fiber when everyone knows that carbon fiber is so much stronger than anything else? The carbon fiber rods failed in compression only, with the tension fibers undamaged. The fiberglass failed in both tension and compression, evidently essentially simultaneously. So maybe

fiberglass is relatively better in compression compared to tension than is carbon fiber. This is consistent with what Reinhard Lahde and I discovered in our study of spar strength, where we found that it takes about three times as much carbon fiber in compression as in tension to make a balanced design.

The weight of these fiberglass rods is only about 22% that of steel rods. The 1/2" fiberglass rod failure moment of 142.5 ft.lbs. is about three times the elastic limit of the 11/32" case hardened rods used by many of our members in their Falcons and other ``hot" models. Before such a fiberglass rod failed, your straightwinged bird would become a dihedral model in front of your very eyes. Yet the 1/2" fiberglass rod is only half as heavy as the 11/32" steel and about one tenth the cost. Seems like a good deal to me.

TABLE #1 FIBERGLASS RODS

Dia. (inch)	Moment at Failure (ft.lbs.)	Moment/ Dia. cubed	Bending Angle (Degrees)
1/4	17.5	1120	18
3/8	67.0	1270	19
1/2	142.5	1140	24

TABLE #2 CARBON FIBER RODS

Dia.	Moment at	Moment/
(inch)	Failure (ft.lbs.)	Dia. cubed
1/4	24	1536
3/8	90	1707
1/2	123	984

SOUTHERN CALIFORNIA SOARING CLUBS RESULTS OF NCC (SC)2 CONTEST OF 05/31/92 CONTEST DIRECTOR - KEITH FINKENBINER

NORMAL

1000.0 999.3 995.6 994.3 988.3 985.9

985.6

984.3

984.3 981.6 975.2 975.2 974.2 965.5 965.2 955.3 955.1

955.1

953.1 953.1 952.1 952.1 933.7 927.7 920.0

910.9 905.6

872.8 871.1 870.1

863.1 860.7

860.1 856.0

853.4

827.6 824.9 817.5

812.2 808.5

806.8 798.8 793.8 791.4 785.4

783.4 770.7 769.0

761.3 753.6 750.3 749.2 745.2 743.9

NORMAL

742.9

742.2 740.5 736.2

736.2 732.8 727.8 714.1 660.5 656.8 652.8

634.4 624.4 603.6 589.9 574.5

554.4 549.7 549.4 527.3 517.9

438.6 434.2 378.3 218.3 0.0

TROPHY

2987.0 2985.0

2974.0 2970.0 2952.0 2945.0

2944.0 2940.0 2932.0

2916.0 2913.0

2911.0 2898.0

2889.0 2885.0 2884.0 2883.0

2866.0

2866.0 2858.0 2853.0 2847.0 2847.0 2844.0 2789.0

2789.0 2771.0 2748.0 2721.0 2705.0 2607.0 2599.0 2578.0 2571.0 2557.0

2557.0 2549.0 2472.0 2464.0 2442.0 2426.0 2415.0

2415.0 2410.0 2386.0 2371.0 2364.0 2340.0 2340.0 2297.0 2274.0 2251.0 2241.0 2238.0

2238.0 2226.0 2222.0

2219.0 2217.0 2212.0 2199.0 2189.0 2174.0 2133.0 1973.0

1973.0 1962.0 1895.0 1895.0 1865.0 1716.0 1716.0 1656.0 1641.0 1575.0

1310.0 1297.0 1130.0

652.0

0.0

TROPHY

E - 1 E - 2 E - 3 E - 4 E - 5

S - 1 S - 2

s - 3

05/31/92 Clubs 9 California Soaring (SC) 2 CONTEST SCORES TEAM N C C Southern 9 RESULTS

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İ		į	0.0	PLACE	NAME CLERX, BEN MARTIN, TONY MEIENBERG, KEN SMITH, MICHAEL EDBERG, DON LACKEY, ROGER MORAN, MYLES REAGAN, MIKE LEUKEN, JIM ANDERSON, GARY LEVOE, MARK BLEDSLOE, RICHARD WEISMAN, EDCAR JOY, GEORGE CHASTELER, FRANK ANDERSON, ROBERT ATWELL, BLAIR BILLMAN, TODD RAYMOND, KEN SPITZER, GEORGE XX SADORF, STAN XX ZINK, DON FINKENBINER, KEITH WARNER, GARTH CONDON, STEPHEN HENDRY, STEVE NEHRING, CURT BATES, JEFF THACKER, BOB BRISTER, KEVIN SMITH, STEVE SAGE, FRED OLSEN, PETER GATTI, MARK VALDES, AARON RODRIGUEZ, JOE FAULKENHAM, RON XX DUNCAN, BILL STROBEL, RICH WIDMAN, DANYLD DEAN, THOMAS SLIFF, BOB WILSON, DAN XX VAN GUNDY, SUE	HSS	EXPERT	2987.0
-	8			1 2	MARTIN, TONY	HSS	EXPERT	2985.0
-	MRCS			3	MEIENBERG, KEN	NCC NCC	EXPERT	2974.0
1	=			5	EDBERG, DON	HSS	EXPERT	2952.0
į	0 1			11 6 7	LACKEY, ROGER MORAN, MYLES	TOSS	EXPERT	2945.0
į	_		0.0	8	REAGAN, MIKE	TOSS	EXPERT	2940.0
į	. !			9	LEUKEN, JIM ANDERSON, GARY	TPG	EXPERT	2916.0
į	SFVF			11	LEVOE, MARK	PSS	EXPERT	2913.0
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į	-	i	i	# * 21 21	ZINK, DON	HSS	EXPERT	2847.0
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- 1	SWSA		7	28	BATES, JEFF	NCC	SPORTSMAN	2705.0
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ı	DUST	@ r r u	7	ii 36	RODRIGUEZ, JOE	ISS	EXPERT	2549.0
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1		:	ı	II 39	STROBEL, RICH	TPG	EXPERT	2442.0
į	7	464	18.3	40 41	WIDMAN, DAVID	NONE	EXPERT SPORTSMAN	2426.0
į		65 85 14 14	8	1 42	SLIFF, BOB	HSS	EXPERT	2410.0
į	4	9 2 2 2	32	ii 43	WILSON, DAN XX VAN GUNDY. SUE	TPG	SPORTSMAN	2371.0
į	SULA		1	45	GUSTIN, RON	DUST	EXPERT	2364.0
ŀ	63		i	46 47	MARKLE, JIM DOUGLAS, IAN	SWSA	EXPERT	2340.0
1	1	2 2	9	II 48	STROBEL, RICH WIDMAN, DAVID DEAN, THOMAS SLIFF, BOB WILSON, DAN XX VAN GUNDY, SUE GUSTIN, RON MARKLE, JIM DOUGLAS, IAN KEIL, DAVID YOUNG, BRETT LEE, MICHAEL PUCHALSKI, MARK VAN GUNDY, DON HALL, DAVID KUTCH, NORM CONDON, SCOTT	NCC	SPORTSMAN	2302.0
- 1	4			49 50	LEE, MICHAEL	TPG	SPORTSMAN	2274.0
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-	Toss	1	1	# }			CLASS	
1		1		II PLACE	NAME			
1	9	2. 4. 6.	! 9:	56	STAFFORD, IRV	NCC PSS	EXPERT SPORTSMAN	2219.0
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İ	EA .	9 9 9 9	i 10	11 59	JOY, BRYAN XX LUGO, BRENDAN	TPG NCC	SPORTSMAN SPORTSMAN	2199.0
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ij	17	10461	1 60	11 66	HUNTER, CLIFF CLARK, DEAN	NCC NONE	EXPERT	1895.0
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ł	TPG] 		jj 68 IJ 69 IJ 70	JENKINS, HARVĖY KLATSKIN, BILL	SULA	SPORTSMAN	1762.0
ı	H	ľ	1	70 71	RICHMOND, DON FINK, DAN	TPG	SPORTSMAN EXPERT	1716.0
- 1					THOMAS, ROSS	HSS	EXPERT	1656.0
į	91			72 73 74	AGUIRRE, MIKE MONAHAN, SEAN XX	HSS SULA	SPORTSMAN SPORTSMAN	1642.0
į		999	1 7	!! 75	SWANSON, NORM	NCC	SPORTSMAN	1575.0 1547.0
į	ပ္ပ	!		!! 77	BUZOLICH, NICK YOUNG, PETER	HSS HSS	SPORTSMAN SPORTSMAN	1310.0
ļ	NCC	ļ	į	78	ANDREWS, ROBERT	ISS NCC	SPORTSMAN SPORTSMAN	1297.0
ŀ		•		80	SHELBY, RICK SANDRONI, HUGO	DUST	EXPERT	652.0
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	06/13/92	OPEN C	Lass Stan	DINGS	HIGH SCORE = 1912									
P	NAME	CLUB	TOTAL	Jan	FEB	MAR	APR	MAY	JUN					
1	MIKE REAGAN	TOSS	5852	1000	980	1000	1000	872	1000					
2	DON McNAMEE	TOSS	4574	920	0	958	736	1000	960					
3	BOBSWET	TOSS	4492	935	943	757	175	695	987					
4	EDGAR WEISMAN	TOSS	4371	955	882	982	0	604	948					
5	THOMASAKERS	TOSS	3930	917	944	170	997	902	0					
6	DON NORTHERN	TOSS	3916	980	0	985	994	957	0					
7	ART McNAMEE	TOSS	3852	923	963	979	987	0	0					
8	MYLESMORAN	TOSS	2812	837	1000	975	0	0	0					
9	B.J. WEISMAN	TOSS	1984	0	994	990	0	0	0					
10	MIKE LEAL	TOSS	1861	0	953	908	0	0	0					
11	PETER STAIRS	????	940	0	0	940	0	0	0					
12	JOHN ELLIAS	TOSS.	881	0	0	881 .	0	0	0					
13	HERB JULIEN	MRCSS	809	0	809	0	0	0	0					
14	LARRYJIMENEZ	TOSS	602	602	0	. 0	0	0	0					
15	BILL KARP	????	566	0	0	0	0	0	566					
16	HERB JULIAN	????	0	0	0	0	0	0	0					

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	06/13/92	2 METER	CLASS STAN	NDINGS		HIGH	SCORE :	= 1762		
P	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR :	MAY	JUN	
1	MIKE REAGAN	TOSS	3912	0	1000	1000	1000	0	912	
2	BOBSWET	TOSS	. 3593	1000	860	724	188	331	490	
3	DON McNAMEE	TOSS	2976	0	0	977	999	0	1000	
4	EDGAR WEISMAN	TOSS	2843	841	485	0	0	575	942	
5	THOMASAKERS	TOSS	2273	0	343	696	712	0	522	
6	ART McNAMEE	TOSS	1840	841	898	942	0	0	0	
7	LARRYJIMENEZ	TOSS	1835	0	741	563	0	0	531	
8	B.J. WEISMAN	TOSS	1802	877	925	0	0	0	0	
9	MIKE LEAL	TOSS	1010	0	0	0	0	1000	10	
10	ED DEVLIN	MRCSS	866	0	703	0	163	0	0	
11	DANE VANNETT	TOSS	756	0	0	0	0	0	756	
12	MIKE PUCKETT		629	0	0	629	0	0	0	

	06/13/92	SPORT	SMAN CLAS	S STAND	HIGH SCORE = 660						
P	NAME	CLUB	TOTAL	JAN	FEB	MAR	APR	MAY	JUN		
1	LARRYJIMENEZ	TOSS	3720	703	752	886	1000	0	379		
2	PETER STAIRS	????	1891	1000	891	0	0	0	0		
3	JOHN ELLIAS	TOSS	1770	824	0,	946	0 .	0	0		
4	ED DEVLIN	TOSS	1000	0	1000	0	0	0	0		
5	JIM GEOHAGAN	TOSS	1000	0	0	0	0	1000	0		
6	DANEVANNETT	TOSS	1000	0	0	1000	0	0	0		
7	BEN WILLIS	TOSS	1000	0	0	0	0	0	1000		
8	B.J. WEISMAN	TOSS	807	807	0	0	0	0	0		
9	DONST.LAWRENCE	TOSS	0	0	0	0	0	0	0		
10	JOHN VAN HAMERSVELD	TOSS	0	0	0	0	0	0	0		

1992 THOUSAND OAKS SOARING SOCIETY ROSTER

06	/1	1	/92
vv.	, ,	1	174

I + 000	FIRST	PHONE NO	STREET	CITY	ST	ZIP	AMA#
LAST	riksi	HORENO	J. R. D. L.				
. KCED C	THOMAS	(805) 496-6655	1583 WAKEFIELD AVE	THOUSAND OAKS	CA		
AKERS	DENNIS	(818) 988-4354	6535 HASKELL AVENUE	VAN NUYS	CA		249690
ARNOLD	JIM	(805) 373-1480	1478 OBERLIN AVE.	THOUSAND OAKS	CA	91360	72810
BENNETT	JIM	(818) 347-0982	6953 MINSTREL AVE.	WEST HILLS	CA		411517
BOYNTON .	NICK	(714) 854-3689	19366 SIERRA BELLO RD.	IRVINE	CA		147697
BUZOLICH	ED	(818) 848-9520	839 E VERDUGO AVE.	BURBANK	CA	91501	14094
DEVLIN		(805) 388-5674	1961 VIA MONTECITO	CAMARILLO	CA	93012	304647
ELLIAS	JOHN	(805) 388-3074	5643 E. WILLOW VIEW DRIVE	CAMARILLO	CA	93012	143567
GEOHAGAN	JIM	(805) 495-1409	1646 LA JOLLA DR.	THOUSAND OAKS	CA	91362	12108
GRISWOLD	CHUCK	(805) 488-6136	1852 SANFORD ST	OXNARD	CA		111039
HARTMAN	RICHARD	(805) 484-1149	5260 HIDALGO ST.	CAMARILLO	CA	93010	
HINMAN	STAN & BILL	(805) 652-1937	1943 CHANNEL DR.	VENTURA	CA	93013	378742
JIMENEZ	LARRY	(805) 523-3436	15266 #A CAMPUS PARK DRIVE	MOORPARK	CA	93021	437956
KIM	SONNY	(805) 495-1997	1967 CAMPBELL AVE	THOUSAND OAKS	CA		419022
KIRBY	FRANK & KYLE	(818) 889-6984	30434 W. RAINBOW CREST DR.	AGOURA HILLS	CA	91301	71615
KOPLAN	TERRY	(805) 529-7535	844 CHARLES ST.	MOORPARK	CA	93021	334482
LEAL	MICHAEL	(805) 684-1384	5956 VIA REAL #2	CARPINTERIA	CA	93013	392617
LUERA	FRANK	(818) 991-0666	6012 COLODNY DR.	AGOURA HILLS	CA	91301	222852
MICHITSCH	ROBERT	(818) 882-4687	10428 OSO AVE.	CHATSWORTH	CA	91311	18426
MORAN	MYLES	(805) 484-7728	2120 GORMAN STREET	CAMARILLO	CA	93010	11074
MORGAN	RALPH	(805) 526-6292	2645 PLACERVILLE CT.	SIMI VALLEY	CA	93063	7417
McNAMEE	ART	(805) 526-3145	2291 NORTH HIETTER	SIMI VALLEY	CA	93063	48996
McNAMEE	DON	(805) 523-1018	3977 WILLOWCREEK Ln.	MOORPARK	CA	93021	28279
NORTHERN	DON	(805) 497-7463	951 WARWICK AVE. #A2	THOUSAND OAKS	CA	91360	
OLDENBURG	ED DAVID	(805) 498-7607	606 VALLEY OAK LANE	THOUSAND OAKS	CA	91320	
PERSON		(805) 498-2613	947 DRIFTWOOD CIRCLE	NEWBURY PARK	CA	91320	
RAKE	GARY MICHAEL	(818) 760-2770	4332 COLDWATER CYN.	STUDIO CITY	CA	91604	
RATNER	MIKE	(805) 529-5513	14705 LOYOLA ST.	MOORPARK	CA	90321	
REAGAN	DON	(805) 497-9681	207 SOMERSET CIRCLE	THOUSAND OAKS	CA	91360	
ST. LAWRENCE	MICHAEL	(805) 492-8452	745 LYNNMERE DR.	THOUSAND OAKS	CA	91360	
STERN	ROBERT & BOB JR.	(805) 498-4342	3415 CRESTWOOD CT.	NEWBURY PARK	CA	91320	
SUTTON	BOB	(805) 388-9619	2600 PONDEROSA DR. APT.15	CAMARILLO	CA	93010	
SWET	JOHN	(805) 492-5904	2826 N MARIETTA CIRCLE	THOUSAND OAKS	CA	91360	
VAN HAMERSVELD	DANE .	(805) 494-4520	689 MC CLOUD AVENUE APT #202	THOUSAND OAKS	CA	91360	
VANNETT	BOB	(805) 499-4635	142 DEWEY AVE.	NEWBURY PARK	CA	91320	
WALANCE	JIM	(805) 494-3031	1694 EL DORADO	THOUSAND OAKS	CA		404518
WARREN	EDGAR and B.J.	(805) 496-0611	752 CAMINO VALLES	THOUSAND OAKS	CA	91360	
WEISMAN		(805) 496-7404	196 QUAILS TRAIL	THOUSAND OAKS	CA	91361	317876
WILLIS	BEN	(600) 400-1404	the Kartine trains				

T.O.S.S. R/C CHANNEL USAGE

CH.	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
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CH.	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	21	52	53	54	ວວ	50	51	50	0.5	
QTY		1	3		9		5		5		5		5	1	4		4		כ		4				