

# TOSSUP 00



May 2000 TOSS Monthly Contest															
NAME	CLASS	Glider	Round 1			Round 2			Round 3			Penalty	TOTAL	Normalized	Yearly Flier
			Time	Landing	Points	Time	Landing	Points	Time	Landing	Points				
Hank Schorz	Open	??	8:02	94	525	7:55	61	505.5	5:05	96	353	2	1381.5	1000.0	1000.0
Mike Reagan	Open	Addiction	7:50	49	494.5	7:52	95	519.5	5:18	80	358	0	1372	993.1	993.1
Mike Stern	Open	Mako	7:51	55	498.5	5:51	74	388	7:17	73	473.5	0	1360	984.4	984.4
Art McNamee	Open	Salsa Supreme	8:00	54	507	8:03	81	517.5	4:53	71	328.5	0	1353	979.4	979.4
John Erickson	Open	Addiction	7:51	57	499.5	6:53	0	413	6:17	86	420	1	1331.5	963.8	963.8
John Elias	Open	Stork	8:04	50	501	8:01	0	479	5:01	100	351	6	1325	959.1	959.1
Edgar Weisman	Open	De Plane	7:46	79	505.5	7:53	89	517.5	4:46	0	286	0	1309	947.5	947.5
Lex Mierop	Open	Thermal Eagle	8:01	46	502	5:52	19	361.5	6:15	89	419.5	0	1283	928.7	928.7
Bill Karp	Open	Psycho	7:57	42	498	5:53	91	398.5	5:48	73	384.5	0	1281	927.3	927.3
Lowell Norenberg	Open	??	7:48	77	506.5	7:49	63	500.5	3:39	88	263	0	1270	919.3	919.3
Bob Swet	Open	Cumic	7:51	0	471	7:49	88	513	1:58	0	118	0	1102	797.7	797.7
Bob Swet	Sport	Cumic	7:54	76	512	5:12	73	348.5	7:58	53	504.5	4	1361	1000.0	985.2
Larry Jimenez	Sport	Paragon	7:59	83	520.5	4:07	0	247	4:50	18	299	0	1066.5	783.6	772.0
Lex Mierop	Sport	Chrysalis 2M	2:20	79	179.5	3:56	81	276.5	7:36	0	456	0	912	670.1	660.2
Bill Karp	Sport	Pantera	7:02	62	453	5:45	0	345	0:00	0	0	0	798	586.3	577.6

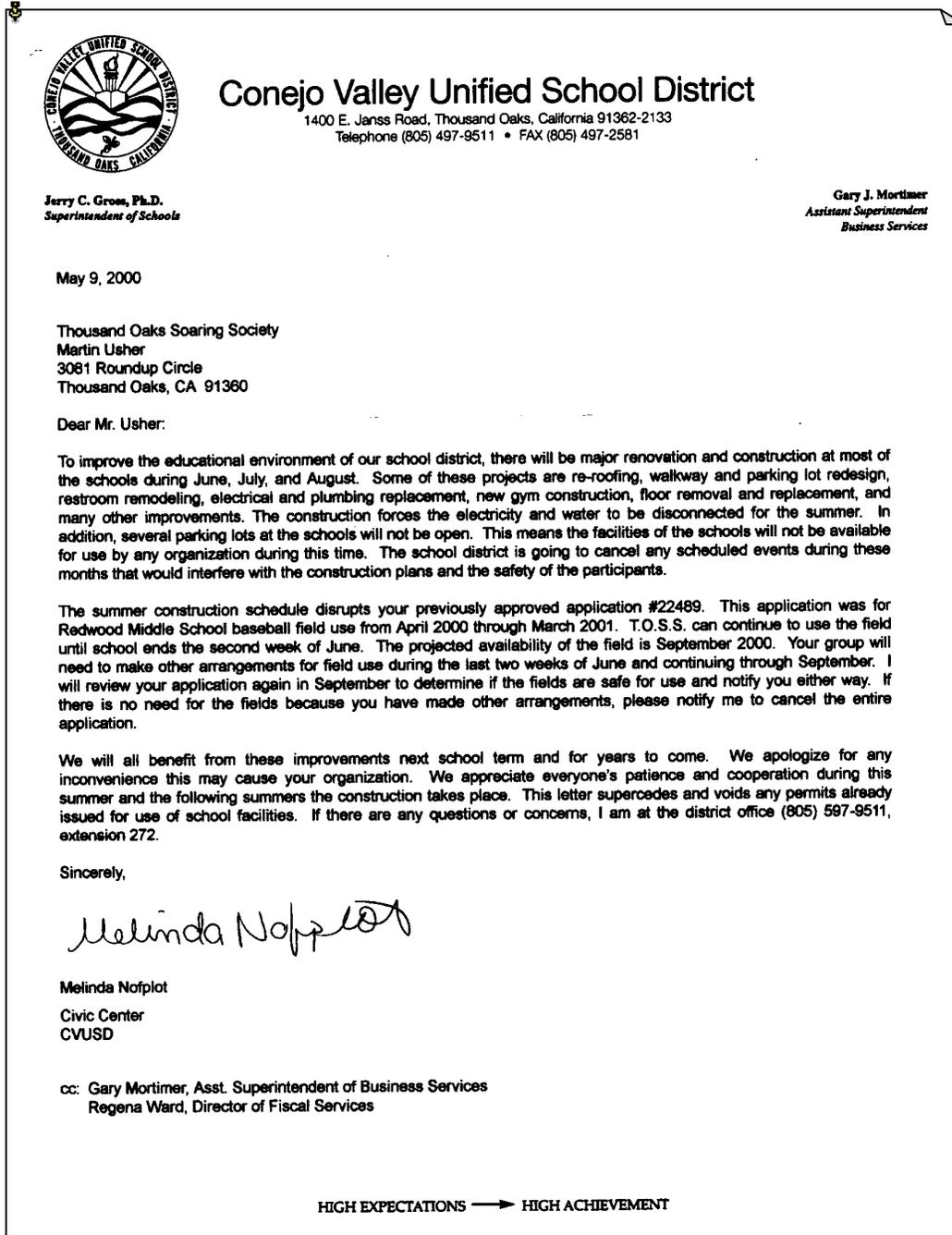
May's competition was a three round add-'em-up, 21 minutes total, 1 point per second, 50 point landing on a tape and no round over 8 minutes. Rounds were open and could be flown at any time.



Pix - thanks to Larry J.

## What's Happening with Redwood?

A couple of weeks ago we received this letter from the CVUSD.....



This letter looked bad for our continuing use of Redwood and would inconvenience our planned SC<sup>2</sup> and Bent Wing contests due to be held in August. Edgar and Miles attacked the problem by scouting out four or five alternative sites and by going to see Tim Carpenter, the school's principal, about it. Since we were already known to the school and the District thanks to the work done with the model planes in the Science classes Mr. Carpenter made a call or two with the result that we were recently called by Melinda and told that we were able to use the fields.

Redwood is getting a new parking facility at the west end of the campus - that's the large thermal generator ("building site") down there. The upper field is going to get a 10,000 sq ft gymnasium (which Edgar thinks will be ideal for indoor flying). .

## “Yes” Grant Application

Edgar has been putting together an application for an AMA “Yes” grant for a project to teach middle school students about aeronautics using the resources of the schools and TOSS. This project came out of the work done with Craig Fox at Redwood which has been described in a previous Tossup. It was a big hit with the kids and was probably a significant factor in Tim Carpenter’s favorable intercession on our behalf with CVUSD over the use of their field.

The application is quite long but the summary and financial parts are repeated here because this application, if approved, will involve TOSS in a significant commitment of resources (including money) over the next few years. It is almost certain to be the main topic of discussion at our next meeting so any member who has any views should try to either turn up at that meeting or make sure that they communicate them to someone who will be going.

The project summary commits TOSS to:-

- Providing plans and/or kits of materials for the construction of model airplanes in the classroom.
- Provide instruction in how to build, adjust, fly and repair the models.
- Coordinate classroom instruction on the principles of flight and aircraft design.
- Construct a three-function training sailplane and instruct interested students with the use of a ‘buddy box’ in how to control a plane in flight (instruction will take place at Redwood after normal school hours).
- Provide instruction aides in at least two sessions with each of approximately 8 classes each semester.

Instruction will first use the AMA Delta Dart as the basic classroom tool. Each student will build one model. There is also a requirement by Redwood to give some classes more advanced instruction to show how altering the plane’s characteristics - control surfaces, CG, thrust line, power and so on - will alter the flying characteristics of the planes.

The costs incurred are estimated to be \$1839 in the first year and \$839 in second and subsequent years. The costs break down into two components. The \$839 figure is for 240 Dart kits, 240 HLG glider kits and associated sundry supplies. The \$1000 figure is

for 2 training sailplanes plus associated radio gear (*This seems a bit high - Ed*). Of these costs \$839 comes from TOSS in the first year, zero in the second year and \$339 from TOSS in the third year.

There are a number of refinements that can be made to the application.

1) We should show how we expect the effort to be self-sustaining after Year 3. Maybe we can get a PTSA buy-in at this point if the project has proven to be both useful and successful so that it can be included in the general school fund-raising efforts.

2) We should demonstrate how the science learnt from the models is relevant to the age groups being taught and how the lessons could be tailored across the ability range found at this school. This could also tie into the California Science Standards. These are a quite detailed list of the concepts that are expected to be mastered at each grade level. (This may not be that important when working with experienced teachers, especially those that are more ‘intuitive’, but they are invaluable for fleshing out grant applications!) The 8th. grade focuses on Physical Science, particularly with respect to Newton’s Laws (definition of velocity, relation of force to velocity) and the application of Scientific Method (forming hypotheses and checking them out by devising and carrying out experiments). Students are also expected to be able to apply simple mathematical relationships between quantities (for example, speed, distance and time) and to understand linear and non-linear relationships. All this translates nicely to building simple model planes; it’s unlikely that all but the very brightest kids would be able to understand and apply polars but they will all to varying degrees be able to measure how fast, how far, how high, how long and possibly relate the energy put into winding a propeller into the height and/or speed of the plane.

*(Bottom line, though, is that it’s not so much what high-falutin’ concepts are taught as how much fun the kids have, because fun fosters interest and interest sparks learning! - Ed)*

2000 TOSS OVERALL STANDINGS														
NAME	CLUB	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	TOTAL
Mike Reagan	TOSS	1000.0	1000.0	R	1000.0	1000.0	993.1							4993.1
Art McNamee	TOSS	977.8	997.8		993.7	992.8	979.4							4941.5
Mike Stern	TOSS	968.2	989.2	A	982.8	986.6	984.4							4911.1
Edgar Weisman	TOSS	997.5	989.2		977.4	988.3	947.5							4899.8
Bob Swet	TOSS	661.0	939.3	I	996.5	935.4	985.2							4517.4
Bill Karp	TOSS	919.3	649.3		993.3	956.7	927.3							4445.8
Don Northern	TOSS	987.9	978.3	N	967.5	988.1								3921.8
John Elias	TOSS		910.6		972.7	969.1	959.1							3811.5
Gary Filice	TOSS	956.8	984.8	E	788.5	963.3								3693.4
Hank Schorz	TOSS	1000.0				968.0	1000.0							2968.0
Peter Stairs	TOSS	980.0	942.0	D		919.3								2841.3
Lex Mierop	TOSS				942.3	948.0	928.7							2819.0
Larry Jimenez	TOSS		966.4			914.0	772.0							2652.3
David Butkovich	TOSS	962.8			927.7									1890.5
Myles Moran	TOSS		845.5			984.4								1829.9
Dan Werner	SCSA	983.9												983.9
Paul Trist	TOSS	982.1		O										982.1
Greg Nikola	SCSA					975.8								975.8
John Erickson	SCSA			U			963.8							963.8
Brian Buaas	????					949.0								949.0
Lowell Norenberg	SCSA			T			919.3							919.3
Greg Boswell	????				794.7									794.7
Brent Blair	TOSS				499.8									499.8
Bob Sutton	TOSS					465.4								465.4
Martin Usher	TOSS						437.2							437.2
Chuck Griswold	????					324.2								324.2

## Results of SJSS 2nd. Annual Bent Wing Contest

April 16th., 2000

Place	Name	Score	%	LSF	Landing
1	Ryan Hipp	1800	100	2400	98
2	Art Macnamee	1778	98.8	2272	108
3	John Erickson	1683	93.5	2057	41
4	Jerry Tonnelli	1636	90.9	1909	90
5	Don Northern	1632	90.7	1813	101
6	Terry Rose	1613	89.6	1703	37
7	Jerry Dyer	1557	86.5	1557	52
8	Clarence Nikkel	1542	85.7	1456	53
9	Dan Chandler	1415	78.6	1258	87
10	Sireich Collins	1405	78.1	1171	22
11	Larry Taylor	1359	75.5	1057	31
12	Ross Thomas	1328	73.8	959	35
13	Bob Swet	1314	73	876	93
14	Gil Ortiz	1276	70.9	780	63
15	Karl Hawley	1263	70.2	702	57
16	Larry Jimenez	1254	69.7	627	52
17	Charlie Thompson	1174	65.2	522	53
18	Harry Rose	1069	59.4	416	63
19	David Bachtel	1021	56.7	340	48
20	Jerry Fox	1011	56.2	281	34
21	Carl Marburger	977	54.3	217	42
22	Perry Hudson	926	51.4	154	29
23	Robyn Rouland	269	14.9	30	0
24	Vern Oldershaw	6	0.3	0	0