

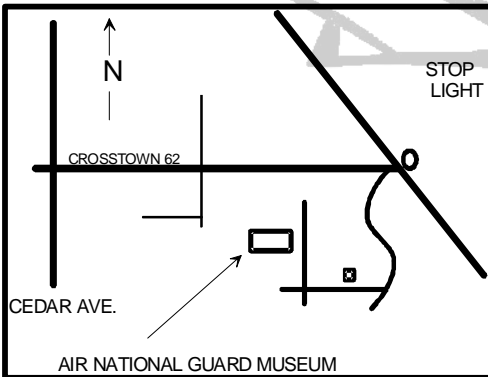
Looking Up!!

July 1998 : Issue #17

Wanted: Sailplane Pilots!!

All MRCSS members must also be a member of the AMA, Academy of Model Aeronautics. See any hobby shop or contact an officer for an application.

To join MRCSS, Send \$20 to MRCSS
5354 Newton Ave. S.
Minneapolis, MN 55419



MRCSS Club Officers:

PREZ: Mike Trutwin 953-3612
VP: Kirk Hall 866-1388
SECR: Jim Ladwig 920-1245
TRES: Jack Perecman 377-4166
EDITOR: Steve Stadler 483-5894
EDITOR: Andy Karl 926-6538
DISTR: Jill Trutwin 953-3612
RECORDS: Jim Smith 831-8184
LIBRARY: John Croke 891-1029

INSTRUCTORS = HELP FOR BEGINNERS

Corky Wald 459-2005 Cottage Grove
Julian Bristow Lakeville
Bob Botha 507-345-1832 Mankato
Bill Sampson 425-3422 Osseo
Mike Trutwin 953-3612 Lakeville

Club EMAIL = sstadler@holadayinc.com
Club WEB page =
<http://www.rcsoaring.com/mnclubs.htm>

JIRIK SOD FARM	ROBINSON LANDSCAPING	PRESCOTT SLOPE	SUPERSLOPE
4 miles East of FARMINGTON on Co Rd 66. Park on Co Rd 66 or on Blaine ave (N/S road). Winch and high starts available on site. Contact an officer for locker combination.	2 miles East of Lexington Ave on Main Street (CR 14, 125 th street) in Lino Lakes. This is the Sod Farm on the South side of the road. DO NOT FLY ON THE SOD FARM ON THE NORTH SIDE OF THE ROAD.	8 miles east of Prescott Wisconsin on Hwy. 10 Take Minnesota Hwy. 61 to Hwy. 10 just north of Hastings. East on Hwy. 10 into Wisconsin, through Prescott. Continue east on Hwy. 10 8 miles to "The Virginian" restaurant on north side of road. Park in north-west corner of lot, hop the electric fence and climb the hill. beware the fence. It's hot! N.N.W. to N.E. winds.	4 miles SE of Northfield. Take MN 246 to Ibson ave. South on IBSON then East on 135 th to Isaacson Trail. Isaacson Trail follows top of the Ridge. SSE to WSW winds at 5-25 MPH needed.

FIELD RULES for SOD FARMS

Nos

- No walking on newly seeded or new growth area
- No driving or parking on the property unless owner permission given on the day you visit (even on "on site" roads).
- No Smoking or Alcoholic beverages
- No Littering
- No music or yelling
- No walking on wet areas
- No recreational vehicles
- No flying of GAS models
- No flying near owner buildings
- No assisting none-insured flyers
- No parking in front of access points

YESs

- Use bright colored streamers on all stakes
- Use frequency board when 5 or more members are flying
- Take all trash home with you
- Pick up any debris found, even if it is not yours
- Park only on the road, and appropriately
- Yield to all farm work and all farm workers, be friendly!
- Use off-site rest rooms
- Report all questionable none-MRCSS activities
- Report rule violations to a Leader Member
- YOU ARE A GUEST SO ALWAYS ACT LIKE ONE

Schedule of MRCSS Events:

July	16th	meeting 7:00 – 10:00 pm Air National Guard Museum
	18th	fun fly (Kirk Hall 866-1388) Hand Launch Golf 10:00 am (Contact Mike Trutwin 953-3612)
	19 th	Rain day for Hand Launch Golf
	25th	Nostalgia Contest (Mike Martindale) AMA pending
August	15th	Contest (Bob Botha)
	20th	meeting 7:00 – 10:00 pm Air National Guard Museum
	22nd	fun fly (Kirk Hall 866-1388)
Sept.	17th	meeting 7:00 – 10:00 pm Air National Guard Museum
	19th	fun fly (Kirk Hall 866-1388)
	26th	Sailplane Regatta (Mike Trutwin) AMA pending
Oct.	15th	meeting 7:00 – 10:00 pm Air National Guard Museum
Nov.	19th	meeting 7:00 – 10:00 pm Air National Guard Museum
Dec.	17th	meeting 7:00 – 10:00 pm Air National Guard Museum

WING IT !

By: Mike Trutwin

It's unbelievable how fast this summer is flying by! Hopefully by now everyone has had a chance to test fly last winters building projects. In fact many of you have probably rebuilt them once or twice already. Or maybe you've scraped it altogether and have your eye on that new kit.

Over the past few years I've witnessed many test flights, Some successful, others not. I've also tested many of my own designs. This by no means makes me an expert, but I thought I might share a few of my deductions anyway.

Center of Gravity (CG) seems to be the biggest problem or concern for most fliers. I hear all the time: "should I add nose weight"?, "it seems tail heavy", "its just pitch sensitive". First of all, if you have plan set the CG as shown. Without plans the general rule of thumb is place the CG at 30% of the wing chord back from the leading edge of the wing. For example: A plane with a 10" wing chord would have its CG 3" behind the leading edge. Planes with tapered or swept back wings would have CG's further back and require a little more trial and error. For initial flights it's better to be a little nose heavy rather than tail heavy. If your plane seems a little twitchy, unstable, or hard to control, especially in pitch, try adding nose weight in

small amounts and retesting. Adjust your transmitter trim one or two clicks up elevator each time you add nose weight, and one or two clicks down elevator each time you remove nose weight.

Directly related to CG and stability is the angle of incidence. This is the angle between the chord line of the wing and chord line of the horizontal stabilizer. The chord line is the imaginary line between the very leading edge and the very trailing edge of any airfoil. To have a stable flying airplane it should have a little positive incidence, around 2-3 degrees. This is the way I look at it; With the stabilizer perfectly level the leading edge of the wing should be just a little higher than the trailing edge of the wing. If both chord lines are parallel (0 incidence) the plane will be much more sensitive in pitch to the point were you are always chasing it, making it hard to fly straight and level. Negative incidence will make the plane tuck under and dive with any gain in speed. Too much positive incidence is no good either, as it creates excess drag slowing the planes forward speed.

For those first flights I've always went through a process that seems to work for me and I've avoided those dreaded launch and crash scenarios. With radios on and all trims set to your best guess of level flight, set the radio down and gently hold the plane level and at its CG. Run with it into the wind adjusting your speed so that the plane just begins to fly. At times actually let go for just a second or two and observe the results. Be ready to grab it quick if a gust comes along. I haven't lost one yet. Adjust the trim settings on your transmitter as needed to give a gradual, descending glide. Never allow the plane to fly away from you without being at the controls. If when you let go the plane wants to immediately nose up, recheck the CG and/or add some down trim. If when you let go the plane quickly returns to your hand, try adding a little up trim and retry. This may require many trial runs, but well worth it.

After you feel comfortable with the running tests, it's time for the hand launch. If I feel unsure of the planes CG, incidence, or pure design, I'll usually do the first tests in tall grass, otherwise sod works just fine. Holding the radio in one hand, again run into the wind until the plane begins to feel light, then give it a push forward and slightly up. Get your hands back on the stick fast ready for that dive down or climb into a stall. If you did your run test correct it should glide straight out and begin a gradual decent for landing. There is no need to give the plane a powerful throw, just make sure it's released faster than its stalling speed. If there is little to no wind, or your plane is heavy or has a small wing area, expect to have to throw it a little faster. If all seems to go well, you are ready for the high start, winch, or slope.

Good thermals!!

Stanton slope updates:

Owner Lyle Gunderson says he will be adding a bull to his herd sometime in July. So if your flying nearby you may want to have a planned route to the nearest fence line. Also, the face of the east slope on the far north part of the hill belongs to someone who may not take kindly to our presence. There still is enough east facing slope further to the south to fly on. If you have any questions please call Mike Trutwin. So far we have flown S.E., E, N.E., N.W., and W. all with success. The west side is not quite as high as the east but works quite well.

Club Library

Please double check around your shop and VCR to see if you may have any MRCSS library items overextended. Last time I looked quite a few articles were missing and/or not checked out. Please help us locate any misplaced items.

Hand Launch Golf

Mike Trutwin is planning an unofficial fun fly HLG golf contest at Jeriks Sod Farm along with our normal fun fly July 18th. Rain day the 19th. No entry fee, no prizes, just good fun. Mike will try to have the course set up by 10:00 am. If you can't make it till later, fine. the course will be up till maybe 3 or 4pm. Bring field repair supplies as our last contest was pretty tuff on planes. Please give Mike a call if you have questions.

Meeting Minutes - June 18, 1998

President Mike Trutwin called us to order at 7:29 P.M.

NEW FACES - Lynn Lewis and his son Matt were present. They had seen our club on the WEB and have already visited one of our contests.

TREASURER'S REPORT - Jack Perecman reported that the club is solvent. Details are not available now as his computer disk info is being reassembled.

BUILDER'S CHALLENGE - Our treasurer will return to John Croke the \$210 in entry fees. Members should contact John at 891-1029 for their share of the money.

JUNE 20 FUN FLY - Kirk Hall announced Jirik sod farm as the location for 11 AM Saturday. May move to the Superslope afterward to fly until 4:00 or later.

OTHER EVENTS - Craig Lamatsch's Beginner's Electric and Hand Launch FunFly is June 20. Electric R/C planes will be at MARCEE98 June 26-28 at the 3M RC Field in Cottage Grove on County Hwy 19.

MEMBERSHIP CARDS - Brian Brinkman will be sending artwork to Ed Berris for membership cards.

CLUB WINCH BATTERY - Andy Karl brought the new battery to the meeting. Mike Trutwin or Dave DeGroot will likely be the caretakers for this.

CLUB HI-START - Members present saw no need to replace this, since so many members regularly bring theirs to the field and will share their use.

COMBAT SLOPE FOAMER ORDER - Mike Martindale distributed kits at the meeting to those who had ordered. Packing tape had not been included, but various sources are available. Mike is coordinating a group building session in Ed Berris' shop area.

ONE-DESIGN EVENT PROPOSED - Geoff Cooke said he will champion an event for slope pylon racers and is willing to build fuselages. Details to be in the July newsletter.

STANTON SLOPE SITE - Mike Trutwin announced that Lyle Gunderson is now willing to have us use his land 1 mile SW of Stanton Airport. Advantages are usable slopes in all directions of wind. Let the owner know when you enter and when you depart, and be careful of the wire fences (some are HOT!) and the poison ivy. The Gunderson house is at 12614 90th Street on the south end of the hill, near the pine trees. Be sure to stay off the fields which have crops.

MINNESOTA RIVER SLOPE SITE - Kirk Hall has found a site near where Hwy 13 turns from the river to go to Prior Lake. There is a flat field with grass at the top. Wind direction is N & NE, perhaps NW.

MRCSS WEB SITE - Tom Rent requests photos of slope soaring activities. He will be adding a HOME button to each page for user convenience.

Questions & Answers

Mark Miller asked where he might find a buddy box for a JR radio. Kirk Hall said he will loan his cord and a spare 400 transmitter.

Rare Attendees Win Raffle Prizes

Tom Rent came to ONE meeting, bought ONE ticket and won the 2M Gnome kit. Dave Engleson (a regular attendee) won the Hot Flash kit, and Dick Nordquist came to his first meeting in many months to win the pair of clamps.

Big and Small Sailplanes Shown

Bill Young showed his Open class Alcyone, which is 99% complete. Wing is obechi over foam. (Jack Perecman revealed he has one all ready to fly - built by Tom Peterson.)

Conrad Sowder brought his Weston Mosquito HLG, built from the kit (now an ARF.) It has a bagged wing, aileron and elevator controls. The thin nose cone was noted to flex quite a bit.

Mark Miller showed the pieces of his damaged Hobie Hawk. The front of the fuselage is plastic (ABS?) while the rear is blown-molded fiberglass. The tailcone is styrene plastic. The glider bellied in after a stall, and is being repaired.

Walt Huemmer displayed his HLG for which Mike Martindale fabricated the fuselage with a conventional tail. Walt commented he enjoys fling the Illusion after work and looks forward to the new glider which weighs 8 oz. without the wing.

Beginner's Fun Fly Held June 20, 1998 at Craig Lamatsch's Elk River Strip

Once again, Craig delivered good weather. Sporadic sprinkles caused planes to be put in the cars now and again, but never forced everyone to seek shelter. Much better conditions than in The Cities, it was said. Wind was variable, but moderate.

At least ten fliers received hands-on flying help; seven had never flown anything before. Don Granlund and Craig Lamatsch were the instructors. Don mostly used his small Buzzard Bombshell and Craig used his just-completed (thanks to Bill Kubiak) "Framed up Skimmer" from Hobby Lobby. Don also assisted Floran Sullivan get used to the way his Goblins fly, and helped new MRCSS member Alan Phelps fly Alan's Spectra.

Lynn Lewis, who had just this past week visited the MRCSS meeting, brought his three sons- Matt (14), Todd (12) and Jeff (8). Lynn is building a Spectra, and Matt is building a Skeeter. All four got flying time with Craig's Skimmer, as did young Brian McKenzie.

Sixteen fliers brought 25 planes - not a bad turnout.

PILOTS AND PLANES AT LAMATSCH'S BEGINNER'S FUN FLY JUNE 20, 1998

Borlaug, John	Sensoar 2M Sailplane
Borlaug, John	Bird of Time 3M Sailplane
Brophy, Jim	Astro Challenger with AF035 (direct) and SonicTronics 7 x 4.
Granlund, Don	4 Engine Puddlemaster with four S400 7.2v and Cox 6 x 4 props.
Granlund, Don	Skimmer 400 with S400 7.2v and Cox 6 x 3.
Granlund, Don	Buzzard Bombshell (reduced) with geared (2.33) S400 6v and 8 x 6.
Granlund, Don	Astro Viking (OldTimer) with Mag Mayhem (2.5:1) and 11 x 7.
Kampmann, Bob	Blue Foamie with S400 and Robbe 6 x 3.5 prop.
Kubiak, Bill	La Chica (85% Signorita) with AF05G and MAF 12 x 8 prop.
Ladwig, Jim	Astro Viking (OldTimer) with AF035G and MAF 12 x 8 prop.
Lamatsch, Craig	Skimmer with Mag Mayhem (2.5:1) and ??? prop.
Lamatsch, Craig	Osprey RCHLG 1.5M Sailplane with Illusion wing or Mike M. wing.
McGillivray, Don	Lazy Bee with AxMan 550 (2716) direct and Slim 8 x 4 prop.
Pauley, Steve	Crackle with AF035G and 9 x 7 prop.
Phelps, Alan	Spectra(w/flaps); S600 (1.7:1 Titanium gears)& Aeronaut 11.5 x 7.
Sampson, Bill	Illusion RCHLG 1.5M Sailplane.
Scott, Dick	Astro Challenger
Scott, Dick	ElectriCub

Scott, Dick	Electric 1.5M Sailplane with S400 geared and CAM 11 x 8 prop.
Sewell, Fred	Spectra(w/spoilers) with AF05G (2.33:1) and Aeronaut 12 x 7 prop.
Sullivan, Floran	Goblin I with Mag Mayhem and 8 x 4.5 prop. (Was S400 last time.)
Sullivan, Floran	Goblin II with S500 (2.8:1) and 11 x 8 prop.
Swetland, John	PolshPare (original WWI type) with 05 (GR#3323) (3.0:1).
Taffe, Bill	Woody's International (PAA-load) with Mag Mayhem (2.5:1).
Taffe, Bill	Astro Challenger with AF05G (3:1) and SonicTronics 11 x 7 prop.
Taffe, Bill	Lanzo Bomber (OldTimer) with Mag Mayhem (3.0:1) and Gr 11.5 x 7.

Pylon Racing at the Slopes -Geoff Cooke

The proposal of a one-design (O.D.) slope pylon racing series was met with a show of hands at the June meeting. To that end, I suggest we start the series – and continue it for the duration of this flying season – without a whole bunch of rules. Initially, the racing will not be for a O.D. sloped, so, if it fly's, and you want to race it, bring it to the slope.

The express purpose of a one-design class is to challenge the competitor rather than available technology. During the off-season, if there is continued interest, we'll move into the O.D. arena and nail down some specifics (for all to vote on), using what we've learned this year as a basis to establish rules and design parameters, i.e., span, wing section and planform, control functions, construction materials, etc.; and of course, how the actual racing should be conducted. One possible scenario to conduct the racing might be through a series of heats, each consisting of at least 2 competitors. A pilot upon winning 2 races will advance to the next level. Succeeding levels will start when at least 2 pilots have advanced from the previous level. The racing will continue until a single competitor remains in the preceding level (at which time that racer is eliminated from further racing), and until the 2 remaining racers face off in what will be the final heat. The winner of that heat will be declared the overall winner.

The contest *may* be conducted using a pre-agreed set of rules:

- Advancement to the next level will be only when back-to-back heats are won;
- Otherwise, any 2 non-sequential wins will qualify for advancement.
- Racing at the different levels will occur separately, or,
- All racers of all levels will race in the same heat.
- 4 racers max per heat;
- 4 laps (8 turns) per heat;
- Flying start.
- Distance between the pylons to be determined by topography at the site.

While this won't be a demolition derby, it nonetheless needs to be said: enter at your own risk; if competition is hot,

airspace around the pylons will be at a premium. Need I say more. I welcome your input, and that includes date(s) and location(s). I may be contacted at:

on the net: gcooke@isd.net

phone and U.S. Mail:

(until 7.29.98)

905-9448

Geoffrey Cooke

1130 Northwood Dr.

Apt. 101

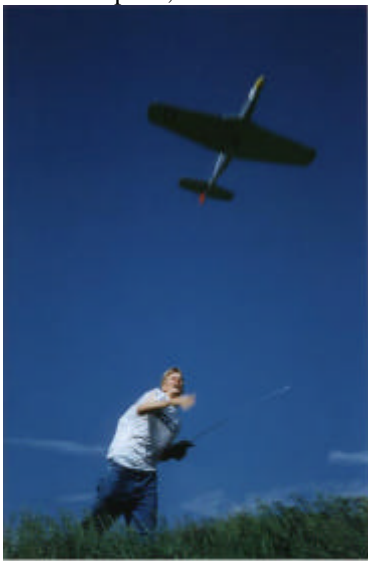
Eagan, MN 55121

(after 7.30.98)

(don't have a phone for the new address yet)

4032 Park Avenue South

Minneapolis, MN 55407





MRCSS GROUP ROSTER July 1, 1998

NOT for public distribution NOR for commercial use

Assad, Steve 606942	calgey@earthlink.net		
612-724-7436 (EVE)		(DAY)	
5211 38th Avenue South	Minneapolis	MN 55017	
Bagley, Russ 207308	russmin@aol.com		
612-835-4195 (EVE)		(DAY)	
5700 Northwood Ridge	Bloomington	MN 55437	
Bailey, Pat pending	basebox@aol.com		
612-432-7788 (EVE)		(DAY)	
144 Cty R42	Apple Valley	MN 55124	
Berris, Ed 446736	imhermie@earthlink.net		
612-920-2464 (EVE)	612-476-3902 (DAY)		
5280 Lochloy Drive	Edina	MN 55436	
Botha, Bob 101854	botha@rconnect.com		
507-345-1832 (EVE)		(DAY)	
1630 Nottingham Drive	N. Mankato	MN 56003	
Brinkman, Brian 312276	brinkman33@aol.com		
218-628-1076 (EVE)		(DAY)	
3430 Midway Road	Proctor	MN 55810	
Bristow, Julian 369344			
17091 Javelin Ct.	Lakeville	MN 55044	
Brophy, Jim 401571	jjbrophy@aol.com		
612-227-0723 (EVE)		(DAY)	
479 Laurel Avenue	St. Paul	MN 55102	
Carver, Lee 074925	ilcarver@pmlink.com		
612-429-3475 (EVE)	612-429-3475 (DAY)		
4181 White Bear Avenue	White Bear Lake	MN 55110	
Christensen, Craig 085771			
612-435-7406 (EVE)		(DAY)	
16550 Linch Path	Lakeville	MN 55044	
Coghlan, Joe pendng			
612-504-0336 (EVE)		(DAY)	
4608 Douglas Drive	Crystal	MN 55422	
Cooke, Geoff 609660			
612-905-9448 (EVE)	612-726-2648 (DAY)		
1130 Northwood Dr #101	Eagan	MN 55121	
Cotter, Jack 278487	jcotter@isd.net		
612-571-6173 (EVE)		(DAY)	
620 Helene Place	Fridley	MN 55432	
Croke, John 507721			
612-891-1029 (EVE)		(DAY)	
15797 Highview Drive	Apple Valley	MN 55124	
Dahl, Rodney 061960			
612-454-8889 (EVE)		(DAY)	
4279 Sequoia Drive	Eagan	MN 55122	
DeGroot, Dave 085243			
612-423-2459 (EVE)		(DAY)	
4208 W. 157th Street	Rosemount	MN 55068	
Engleson, David	dengleson@cunningham.com		
612-695-0708 (EVE)	612-379-3400 (DAY)		
2177 James Avenue	St. Paul	MN 55105	
Erdrich, Richard 130429			
612-423-1809 (EVE)		(DAY)	
12420 Bacardi Ave.	Rosemount	MN 55068	
Goodrich, Bill			
612-721-1191 (EVE)		(DAY)	
5116 17th Ave S	Minneapolis	MN 55417	
Griffiths, Bob 008882			
612-926-6051 (EVE)		(DAY)	
5033 Indianola Avenue	Edina	MN 55424	
Hall, Kirk 536946			
612-866-1388 (EVE)		(DAY)	
7611 Knox Ave. S. #320	Richfield	MN	
55423			
Hanson, Jack 423923			
612-831-8224 (EVE)		(DAY)	
3908 Poplar Bridge Road	Bloomington	MN 55437	
Harold, Bob 002457			
608-786-0856 (EVE)		(DAY)	
519 N. Youlon Street	West Salem	WI 54669	
Harris, Ray 012380			
612-929-8155 (EVE)	612-473-7341 (DAY)		
3149 Jersey Ave. S.	St. Louis Park	MN 55426	
Heggen, Eugene 368019	heggengearing@thegrid.net		
480 Sherwood Drive	Gilroy	CA 95020	
Hocker, Ben 044159	bhocker@pmlink.com		
612-474-2285 (EVE)	612-954-2745 (DAY)		
5730 Covington Circle	Minnetonka	MN 55345	
Huemmer, Walter 605563	walt@qbp.com		
612-699-6946 (EVE)		(DAY)	
1292 Bayard Avenue	St. Paul	MN 55116	
Igoe, Bill 036496	bill.igoe@juno.com		
612-944-7981 (EVE)	612-944-7981 (DAY)		
10519 Maryland Rd.	Bloomington	MN 55438	
Johnson, Greg pending	cheyenne@wavetech.net		
612-754-6503 (EVE)		(DAY)	
1235 120 th Lane NW	Coon Rapids	MN 55448	
Karl, Andy 109813	andy_karl@ccgate.apl.com		
612-926-6538 (EVE)		(DAY)	
4089 Toledo Avenue	St. Louis Park	MN 55426	
Kotval, Craig 203371			
612-452-7394 (EVE)		(DAY)	
1901 Jade Lane	Eagan	MN 55122	
Ladwig, Jim 023709	jimladwig@internetmci.com		
612-920-1245 (EVE)	612-920-1245 (DAY)		
5354 Newton Avenue S.	Minneapolis	MN 55419	
Martindale, Mike 494683	burfo001@gold.tc.umn.edu		
612-653-9312 (EVE)		(DAY)	
84 Oak Street	Mahtomedi	MN 55115	
Metz, Steve 002332	Steve.Metz@htc.honeywell.com		
612-644-5071 (EVE)		(DAY)	
1387 Englewood Avenue	St. Paul	MN 55104	
Miller, Mark	crabcake@minn.net		
612-306-9984 (EVE)		(DAY)	
1445 Upper 55 ST E.#310	Inver Grove Hts	MN 55077	
Nordquist, Dick 311505			
612-783-8859 (EVE)	612-786-8580 (DAY)		
5650 Dunlap Avenue	Shoreview	MN 55126	
Okinow, Harold 052953			
602-905-7331 (EVE)	612-927-6398 (DAY)		
7115 E Foothill Drive	Paradise Valley	AZ 85253	

Olive, Andrew 325333 612-825-1685 (EVE) 4226 Bloomington Ave. S Palen, Luke 612-490-7963 (EVE) 10 W. Shore Road Paske, Terry 013089 507-753-2064 (EVE) RR 4 Box 160 Patterson, Don 001722 612-476-2057 (EVE) 435 Comstock Lane Perecman, Jack 204085 612-377-4166 (EVE) 224 Natchez Avenue N. Peterson, Tom 196860 215-321-1781 (EVE) 8 Old Barn Court Phelps, Alan pending 612-470-2285 (EVE) 2613 Longacres Drive Pribble, John 036266 612-431-5328 (EVE) 15673 Highview Drive Rent, Tom 216998 612-435-2792 (EVE) 17540 Kodiak Avenue Robertson, Lee 320-252-8453 (EVE) 1000 10th St. NE Rosenquist, Dick 098124 612-437-2331 (EVE) 1321 W. 22nd Street Sampson, Bill 016232 612-425-3422 (EVE) 9902 93rd Place N. Schmierer, Richard 393893 612-721-8787 (EVE) 1852 E. 39th Street Schworer, Tom 174661 612-639-0364 (EVE) 2651 Rice Creek Rd. #106 Senum, David pending 612-704-1803 (EVE) 16241 Kwei Street Sewell, Fred 552135 612-724-5519 (EVE) 4822 Folwell Drive	S Minneapolis MN 55407 palen@dacmail.net North Oaks MN 55127 tapaske@juno.com 507-753-2064 (DAY) Rochester MN 55906 dgpebml@isd.net 612-476-2057 (DAY) MN 55447 Golden Valley MN 55422 planes4tom@aol.com Newtown PA 18940 alsandyphelps@worldnet.att.net 612-887-7390 (DAY) Chanhassen MN 55317 Apple Valley MN 55124 tmrent@goldengate.net 612-921-6384 (DAY) Lakeville MN 55044 Sauk Rapids MN 56379 drosenqu@citolink.com Hastings MN 55033 wjsamp@juno.com 612-425-3422 (DAY) Osseo MN 55369 Minneapolis MN 55407 thomas_schworer@yahoo.com New Brighton MN 55112 Forest Lake MN 55025 Minneapolis MN 55406	Smith, James C. 220173 612-831-8184 (EVE) 9919 Oxborough Road Sorenson, Larry 604237 715-426-4918 (EVE) 650 Hazel Street Sowder, Conrad 383039 612-869-6244 (EVE) 5909 Park Avenue South Stadler, Steve 236470 612-483-5894 (EVE) 786 Cannon Ave. Stewart, Greg 095055 612-925-1747 (EVE) 4933 Vincent Avenue S Sullivan, Floran 584524 612-559-0767 (EVE) 11355 36TH PL. N. Trutwin, Mike 441508 612-953-3612 (EVE) 16842 Glencoe Avenue Tucker, Jeff 612-521-8063 (EVE) 5100 Winsdale Street Van Benthuyzen, Bill 409243 612-920-9531 (EVE) 6944 Hillcrest Lane Vogelgesang, Maynard 157118 612-423-2586 (EVE) 3365 143rd Street West Wald, Corky 006749 612-459-2005 (EVE) 11500 Grey Cloud Trail S Young, Bill 588818 612-702-0607 (EVE) 9144 Brentwood Trail	jamescsmith@worldnet.att.net 612-831-8184 (DAY) Bloomington MN 55437 sorenson@adc.com 612-403-8625 (DAY) River Falls WI 54022 (DAY) Minneapolis MN 55417 sstadler@holadayinc.com 612-934-4920 (DAY) Shoreview MN 55126 gstew@aol.com 612-835-4884 (DAY) Minneapolis MN 55410 612-559-0767 (DAY) Plymouth MN 55441 mtrutwin@profdesign.com (DAY) Lakeville MN 55044 612-363-7320 (DAY) Golden Valley MN 55422 (DAY) Edina MN 55435 mwvogel@juno.com (DAY) Rosemount MN 55068 ewald@pclink.com (DAY) MN 55016 (DAY) MN 55125
--	---	--	--

MRCSS OFFICERS FOR 1998

PRESIDENT :	Mike Trutwin	612-953-3612
VICE - PRES :	Kirk Hall	612-866-1388
SECRETARY :	Jim Ladwig	612-920-1245
TREASURER :	Jack Perecman	612-377-4166
NEWSLETTER :	Steve Stadler	612-934-4920
RECORDS :	Jim Smith	612-831-8184
LIBRARIAN :	John Croke	612-891-1029

1998 MRCSS FREQUENCY USAGE CHART

July 1, 1998

CH	Computer	Regular	CH	Computer	Regular
00			30		Rent, Carver Rosenquist, Dahl
01			31	Okinow	Lamatsch
02			32	Metz, Harold, Okinow	Berris, Lamatsch Rent
03			33	Rent Stewart	
04			34	Schmidt, Berris, Paske	Rent, Stewart, Paske, Brinkman
05			35	Harold	Harold
06	Bagley	Bagley	36		Berris, Lamatsch
07			37	Okinow	Paske
08			38	Berris, Karl Christensen	Bagley, Brinkman Berris, Hocker
09			39	Stadler, Berris	Miller
10			40	Berris Degroot	Bagley, Trutwin, Hocker Karl, Kotval, Wald
11		Rent, Sampson	41		Hanson
12		Rent, Vogelsang Van Benthuyzen	42		Wald, Rosenquist, Bristow
13	Hall, Patterson	Paske	43		Nordquist, Palen
14	Olive	Rosenquist, Paske	44		Griffiths, Vogelgesang Rosenquist, Brinkman
15	Lamatsch	Gold, Clinton, Rosenquist Tucker	45	Brinkman	
16	Botha Wald	Cotter, Coghlan Rosenquist	46	Christensen, Okinow	Brinkman, Metz, Rent Perecman, Dahl
17	Sowder, Hall	Sowder, Paske, Schworer	47	Martindale	Igoe
18	Botha Lamatsch	Botha, Kotval, Olive Nordquist, Christensen Rosenquist, Hocker	48	Okinow, Sorenson	Nordquist, Jorgensen Wald, Patterson, Vogelsang
19	Bristow	Olive	49	Berris, Wald	Palen
20	DO NOT USE. LOCAL INTERFERENCE	DO NOT USE. LOCAL INTERFERENCE	50	Berris Stewart, Young	Perecman, Carver, Wald Rosenquist, Hanson
21			51	Cooke	
22	Stewart	Berris, Rosenquist	52		Griffiths, Olive, Rent, Bailey Metz, Carver, Dahl, Christensen, Huemmer
23	Perecman, Vogelgesang	Wald, Sorenson	53	Smith, Engleson	
24		Bailey	54	Metz	Cotter, Karl, Igoe, Sampson. Patterson, Huemmer
25		Sampson, Croke	55	Stewart	Fisher, MRCSS
26		Bristow, Kotval Croke, Berris, Perecman	56		Perecman, Knox Igoe, Hocker
27	Nordquist Perecman	Lamatsch, Schworer, Phelps	57	Cotter	Bagley, Smith, Sampson Ladwig, Martindale
28	Haley	Bristow, Kotval Degroot, Wald	58	Lamatsch, Vogelsang	
29	Trutwin	Sampson	59	Lamatsch	Olive, MRCSS

**Please call Jim Ladwig (920-1245) if you ADD or DELETE
radios so we can keep this list current.**

MRCSS CLUB RECORDS

May 98

STUFF

LONGEST SLOPE DURATION

ALL TIME HIGH RECORD

CLASS	NAME	TIME	DATE	NAME	TIME	DATE
1.5M/HL	Tom Rent	1:42:03	4/11	JIM SMITH	2:43:10	6/88
2 METER				K. ROGERS	4:29:00	10/87
STD				TOM RENT	3:17:07	8/89
OPEN				K. ROGERS	2:45:38	10/82

LONGEST THERMAL DURATION

HL	Mike Martindale	2:45	5/03	Brian Brinkman	0:46:01	7/96
ILLUSION HL	Jim Ladwig	1:03	4/28	Dave Degroot	0:11:13	5/96
ILLUSION	Jim Ladwig	2:55	5/03	Jim Ladwig	2:55	5/98
1.5M						
2 METER	Bill Igoe	12:38	4/26	K. ROGERS	1:37:48	8/83
STD				R. DIABAISSO	2:13:00	6/87
OPEN	Tom Rent	37:02	4/26	S. BOWMAN	3:17:10	5/90

LONGEST ELECTRIC DURATION

5/6 CELL	Jim Ladwig	18:11	5/03	TOM RENT	0:44:49	4/93
7 CELL				J. SMITH	2:44:12	8/94
OPEN				Brinkman	1:04:38	9/94

FLIGHTS AFTER 6 pm

SLOPE	NAME	TIME	DATE	NAME	TIME	DATE
THERMAL	Bill Igoe	1:09	4/28	C. KOTVAL	0:45:02	4/88
ILLUSION HL Thermal	Jim Ladwig	0:13	4/28	Jim Ladwig	0:00:13	5/98
ELECTRIC	Jim Ladwig	6:30	5/03	JIM SMITH	0:20:44	8/93

CROSS COUNTRY FLIGHTS

<12' SPAN						
>12' SPAN				KARL/PERECMAN	6 MILES	6/90

*** BOLD NAMES REFLECT ACTIVITY RECORDED DURING THE MONTH ***
PHONE ALL RECORDS INTO JIM SMITH..831-8184.

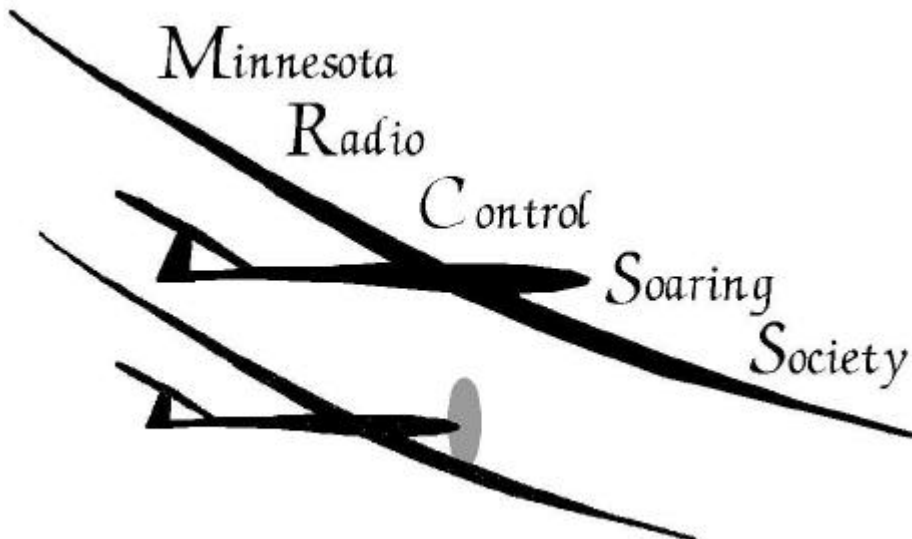
LOTS OF OPEN RECORDS PICK A CATEGORY AND GO FOR IT !!!

MRCSS Transmitter Bags - \$6 each
Shirts - \$8 each,
Tom Rent - 435-2792

100 Minute Club

Thermal	Tom Rent	Level 1
Slope	Mike Trutwin	Level 2

Steve Stadler / MRCSS
786 Cannon Ave.
Shoreview, MN 55126



FIRST CLASS MAIL