



Thermals

Newsletter of the Rocky Mountain Soaring Association

April 2001

AMA Chartered Club 1245

Volume XXV Number 4

Vice-President's Message

The season has begun... March has been a challenge but we managed to get in our two events. The Pro/Am went very well on schedule, but the Open event was postponed due to inclement weather and completed two week later. I hope the rest of the season fares better weather. The March meeting was held at Dr. Dan's offices in Broomfield. Mark Howard graciously volunteered to conduct a program for us. First he did a show and tell with his new Texas Twister discus launch HLG (DLG?). It is a very nice piece of workmanship. Even better, Mark did an approximation of the launch technique indoors. That tells you how much room we have in doc's office. After the HLG demo Mark showed some video that he shot from a video camera attached to the top of his cross country Sagitta. He used the tripod mounting screw to attach it to the top of the fuselage. I gotta tell ya the video was awesome. You would think you were in a full-scale sailplane. Mark's flying was smooth and solid. He caught a great thermal and had some great shots of the field and Barr Lake. Mark assures us that there is a lot better shots to be had. I can't wait to see them.

The winches have all been redone with "Real Balls" and are working great. Thanks to Charlie Miller who donated the time in his shop to refit the "Balls" – he also donated the necessary rebuild parts such as brushes and the costs associated with turning the commutators. MANY THANKS Charlie. Bob ordered 290# line and it appears to be working very well. Bob Rice and Dr. Dan are working on redoing the frames to make them lighter and easier to transport. We look forward to getting the new design done.

WinchMaster Needed!!!

Would you like to earn the envy of all your friends? How about having the use of a "Real Balls" winch to practice with any time you want? All you have to do is volunteer to be a winchmaster. The main responsibility of a winchmaster is to be sure the winch gets to the scheduled contests, either by bringing it themselves, or getting it to someone that is attending. Sooo – if you come to most of the contests anyway – you might as well have a winch. Contact Shannon Bingham to see about getting it. His number is on the back page of this newsletter.

Shannon & Jim

Next Meeting:

Date/Time: April 3, 2001 - 7:00PM

Location: Broomfield Advanced Chiropractic
26 Garden Ctr
Broomfield CO 80020-7012

PROGRAM: I will be showing a tape on Dynamic Soaring – pretty incredible speeds!



Rocky Mountain Soaring Association

Spring Thermals April 8, 2001 Jim Barr - CD

Registration: 8:30-9:00 AM
Pilot's Meeting: 9:00 AM
First Flight: 9:30 AM
Entry Fee: \$5.00 (\$3.00 Juniors)

Current (2001) AMA membership is required and must be shown – if you haven't renewed – get to it...

Please be registered and have planes assembled by Pilot's Meeting

Tasks: Tasks T1 International Duration with time set according to conditions and turn-out.

Landing: L4 Spot Landing with AMA tapes.

Winchmasters: Please be at the field by 8:45AM. If you are unable to attend please contact the CD to arrange to have your winch/retriever available

RMSA HLG Sunday April 15, 2001 Shannon Bingham - CD

Registration: 8:30-9:00AM
Pilot's Meeting: 9:00AM
First Round: 9:30PM
Entry Fee: \$5.00 (\$3.00 Jrs)

Current (2000) AMA membership is required and must be shown when registering.

Please be registered and have planes assembled by Pilot's Meeting

Tasks: To be announced at the pilot meeting



Rocky Mountain Soaring Association

F3J in the Rockies May 25-27, 2001 Mark Howard - CD

The F3B contest in Denver last May was one of the most fantastic events imaginable. 3 days of perfect weather; the Friday clinic with Skip Miller – midday BBQ's and Mexicali/Margarita evenings.

Were doing it again - only this time it's **F3J** !

MEMORIAL DAY WEEKEND 2001 - DENVER, COLORADO ---- IS F3J IN THE ROCKIES !!!!

Tune up for the team trials. Attend Skip Miller's renowned soaring clinic. Compete for fantastic prizes!

This event will be a two-day, full-rules F3J competition.

- Friday 5/25 is the clinic
- Sat and Sun 5/26-27 are competition days.

This is a beautiful time of year in the Denver area. Come celebrate springtime in the Rockies.

Put this weekend on your calendar NOW!
Event entry forms will be available soon.

You can e-mail me to reserve your frequency now.

**mark_s_howard@msn.com or
mhoward@spaceimaging.com**

Thanks,
Mark

RMSA members take note – this is a premier event that provides a lot of great publicity for our club. Come on out and fly – no experience necessary. We could also use some help - specifically we need help in cooking for the BBQ and running the flight line. We have some world class flyers confirmed for attendance – it should be fun.



Rocky Mountain Soaring Association

4th Annual Pro/Am Jim Monaco - CD

The 4th Annual Pro/Am was again a big success. We had 16 flyers show up to fly in somewhat dense fog. The winchmasters brought out the winches and set them up with help from the flyers. Thanks go out to Don Ingram and Bob Pederson for pitching in and getting the winches out. We needed to restring the winches, but since we had a lot of fog we used the time well to get everything set up. I was a little concerned about the ceiling, but Don Ingram did a test launch and it looked OK, so we split the teams up and got started. We had one good round, then the wind started to blow. By the end of the third round it was really howling and was getting much less fun. The good news was that even with the new "Real Balls" winches and a pretty stiff head wind – we didn't have any problem launching or crunching airplanes. On the other hand there were no gentle ladies there either. After 3 rounds we decided to call the contest and avoid any carnage.

All the feedback was very positive – the Ams got a lot of individual instruction from their accompanying pro and the pros really seemed to enjoy working with the Ams. It was little disappointing to see so few novices out, but I'd like to attribute it to the weather rather than lack of interest. I am very proud of the number of Master flyers that came out to lend their expertise for a non-counting contest. We have a great club with everyone willing to help the new folks out. I'd like to encourage the novice and sportsman flyers to come out and take advantage of this great opportunity next year. You need not feel self conscious about your skills, that is what the pro is there to help out with and all are more than happy to help.

Because of the low novice turnout we basically ranked the flyers attending by their approximate previous year standing and then split the total in half to get an even number of teams. In the end Team Moffett took the Pro/Am title with Dr. Dan and Bob Moffett edging out Skip Miller and Don Ingram by 3 raw points. It was a tough contest in tough conditions and everyone did very well.

See you next year... *Jim*

Pro/Am Results

Name	RD 1	RD 2	RD 3	Total	Norm by Contest	Norm by Class	Total	Place
Team Moffett								1
Dr. Dan	435.00	503.00	447.00	1,385.00	993.54	1,000.00		1
Bob Moffett	446.00	457.00	254.00	1,157.00	829.99	835.38	1824	1
Team Skip								2
Skip Miller	439.00	510.00	445.00	1,394.00	1,000.00	1,000.00		2
Don Ingram	417.00	489.00	239.00	1,145.00	821.38	821.38	1821	2
Team Howard								3
Mark Howard	444.00	500.00	395.00	1,339.00	960.55	1,000.00		3
Gary Lewan	404.00	447.00	241.00	1,092.00	783.36	815.53	1744	3
Team Keer								4
Bob Johnston	456.00	503.00	308.00	1,267.00	908.90	1,000.00		4
Lenny Keer	421.00	258.00	428.00	1,107.00	794.12	873.72	1703	4
Team Pederson								5
Wayne Hollenbeck	304.00	364.00	437.00	1,105.00	792.68	1,000.00		5
Bob Pederson	267.00	451.00	230.00	948.00	680.06	857.92	1473	5
Team Charlie								6
Charlie Miller	285.00	431.00	444.00	1,160.00	832.14	1,000.00		6
Joseph Newcomb	301.00	413.00	163.00	877.00	629.12	756.03	1461	6
Team Zika								7
Ali G	213.00	364.00	385.00	962.00	690.10	1,000.00		7
Jack Zika	296.00	401.00	200.00	897.00	643.47	932.43	1334	7
Team Jones								8
Phil Jones	317.00	168.00	432.00	917.00	657.82	1,000.00		8
Jim Monaco	444.00	190.00	123.00	757.00	543.04	825.52	1201	8



Rocky Mountain Soaring Association

March Open Contest Report Jim Monaco - CD

The March contest was postponed from the 11th to the 25th because of weather. It snowed like crazy the originally scheduled weekend for the contest so we postponed it to after the Pro/Am. At bedtime on Saturday it was still raining, but the forecast for Sunday predicted cloudy but no rain in the AM, with clearing skies around noon. Fifteen hardy flyers showed up and while we consumed the donuts I brought, we debated the merits of continuing. It was not raining, but it was very cold. Based on the previous forecast and the fact that postponing again would begin to clog the schedule, I decided to go ahead and start the contest. The wind predictions we from the southeast, but the wind was out of the north. I decided to set up into the prevailing wind and we'd move the winches if the wind changed that much. As it turned out, the forecast was terribly wrong and it got colder and cloudier all day. The wind prediction was wrong as well and the wind stayed out of the north, fairly light for the whole day so we never needed to move the winches. This was a very close contest. There was an incredible amount of lift available despite the really crappy overcast and cold temps. Most everyone was flying a molded sailplane and they did incredibly well in the conditions. Smooth flying was the order of the day, but most folks made their times – that made landings really important. And we landed very well too – under 90 was not very good for the day.

Dr. Dan took Sportsman – followed by a new member, Wayne Hollenbeck in second. In Masters class the top 3 positions were separated by about 100 raw points. Bob Lewan took 3rd place only 15 points behind Mark Howard in 2nd. Skip Miller continued his consistent flying winning every round he flew in except the last to take top honors. Thanks to all who braved the cold and flew 5 fun rounds. It goes to show – even in the cruddiest conditions there is lift around. By the time we headed home the snow was falling hard and there were several inches on the ground just west of the field...

See you n April - *Jim*

March Open Results March 25, 2001

ID	Class	Name	RD 1	RD 2	RD 3	RD 4	RD 5	Total	Norm by Contest	Norm by Class
N Novice										
S Sportsman										
15	S	Dr. Dan	987.95	932.16	783.84	820.36	992.13	4,516.44	905.07	1,000.00
5	S	Wayne Hollenbeck	541.67	561.06	727.88	378.43	748.53	2,957.56	592.68	654.84
M Masters										
3	M	Skip Miller	1,000.00	1,000.00	1,000.00	1,000.00	990.18	4,990.18	1,000.00	1,000.00
8	M	Mark Howard	1,000.00	1,000.00	951.75	992.16	961.45	4,905.36	983.00	983.00
4	M	Bob Lewan	1,000.00	1,000.00	901.75	988.33	1,000.00	4,890.07	979.94	979.94
6	M	Dusty Miller	963.96	1,000.00	1,000.00	1,000.00	898.80	4,862.76	974.47	974.47
7	M	Bob Moffett	894.58	969.47	1,000.00	1,000.00	988.19	4,852.23	972.36	972.36
2	M	Jon Padilla	954.95	956.96	940.13	968.87	1,000.00	4,820.92	966.08	966.08
14	M	Charlie Miller	969.88	969.85	984.51	1,000.00	869.88	4,794.12	960.71	960.71
10	M	Byron Blakesley	901.79	932.16	929.82	988.02	986.22	4,738.02	949.47	949.47
13	M	Jim Monaco	852.41	885.50	1,000.00	982.63	1,000.00	4,720.53	945.96	945.96
1	M	Don Ingram	1,000.00	706.27	995.57	986.03	1,000.00	4,687.86	939.42	939.42
11	M	Tom Gressman	954.82	712.87	982.30	984.56	946.53	4,581.08	918.02	918.02
9	M	Jeff Burg	879.88	848.10	946.78	924.12	880.16	4,479.05	897.57	897.57
12	M	Jack Zika	960.84	531.65	941.05	931.37	990.10	4,355.01	872.72	872.72



Rocky Mountain Soaring Association

RDS News

RDS is a system for creating linkages that are entirely contained within the wing structure leaving no hardware hanging in the breeze. Typically they have been used for built-up or foam wing models. In this article the designer provides some additional information and some internet links to additional details. Reprinted from the RCSE.

In the all-internal ROTARY DRIVER SYSTEM (RDS) of moving hinged surfaces, no hardware hangs out to catch on things, get torn away or detract from the beauty of an airframe. Horns, clevises, threaded rods, keepers, etc. are not used, nor are output arms and wheels. Linkage points where slop can begin are eliminated. Airframes are slicked up to reduce drag, noise and improve performance. If you've been intrigued by the RDS concept, but reluctant to make parts, here's GOOD NEWS, especially for LARGER, FASTER, HEAVIER airframe applications!

IRF Machine Works (flyer-machinist Walt Dimick) now offers a line of meticulously-machined, high-precision RDS accessories. It includes DRIVE SHAFTS, POCKETS and a tempered aluminum COUPLER TOP that accepts 4 setscrews to secure larger shafts with great integrity. Used with the Kimbrough Products MOLDED COUPLERS, Item # 500, installation is MUCH SIMPLIFIED. The precision fits provided best assure the advantages inherent in the RDS. ZERO SLOP is contributed by this hardware. Surface centering can be as good as servos and hinging will allow.

IRF's accessories reflect suggestions from prominent flyers and flyer-engineers involved in more extreme, high-airborne load applications in both sailplanes and powered airframes. Their intended use is in the more-demanding RC fixed-wing applications. In sailplanes, these would include F3B, F3J, F3F, larger thermal competition ships, X-C's, scale, slope racers, speed trials, etc. and in powered aircraft, larger sport, electrics, giant scale, pattern, jets, pylon, etc.

For RDS details, go to <http://www.proptwisters.org/rds2/index.html>. Click on the SOURCES and INSTRUCTIONS links to get into IRF's pages. Use the links given or page to the HEAVY-DUTY APPLICATIONS section for more details on the new accessories.

See Mike Garton's column in the March issue of Model Aviation (pg. 93) for his observations on the use of the RDS in small airframes. See the new HLG section in the website for specifics to do installations in such applications.

May you all take the initiative to do an installation and find out first-hand what this new technology is all about. Questions, comments and suggestions are welcome.

Harley Michaelis, LSF023, 26 S. Roosevelt, Walla Walla, WA. 99362. (509)529-2562 RDS website: <http://www.proptwisters.org/rds2/index.html>

Scorekeeping

A number of you have made fun of some of the techniques I have used to shade my computer screen at the field for visibility. I think most of you will agree that the setup in the following picture is far more ridiculous than my setup – and you will kindly leave me alone in the future – *Jim*





Rocky Mountain Soaring Association

2001 RMSA Contest/Event Calendar

Date	Event	CD	Notes
Jan. 2	RMSA Meeting		
Feb. 6	RMSA Meeting		
Feb 2-4	Southwest Classic		CASL Southwest Classic - Phoenix AZ
Mar. 6	RMSA Meeting		
Mar. 11	Open*	Shannon Bingham	
Mar. 18	Pro-Am	Jim Monaco	Fourth annual Pro-Am
Mar. 24- Sat	PPSS OPEN	Greg Tarcza	March Madness
Apr. 3	RMSA Meeting		
Apr. 8	Open*	Jim Barr	
Apr. 15	HLG**	Shannon Bingham	
Apr. 22	PPSS OPEN	Dave Kurth	Humps & Bumps
May 1	RMSA Meeting		
May 6	Open*	Lenny Keer	
May 12	HLG**	Bob Lewan	Saturday event
May 19 - Sat	PPSS OPEN	Austin Cleis	May Fly
May 26, 27, 28	F3J*	Mark Howard	Special National Event
June 2-3	IHLG		International HL Contest Torrey Pines CA
June 5	RMSA Meeting		
June 10	Open*	Bob Moffett	
June 16	HLG**	Bob Lewan	Saturday event
June 24	PPSS OPEN	Jack Dech	Summer Solstice
July 3	RMSA Meeting		
July 8	Open*	Bob Pederson	
July 14 - Sat	PPSS RE	Barry Welsh	Memorial Fly
July 21 - Sat	PPSS RES	Rich O'Connell	Height of the Season
Aug. 7	RMSA Meeting		
Aug. 12	Open*	Jim Monaco	Kinda-F3J
Aug. 18 - Sat	PPSS OPEN	Frank Deis	Night Fly
Aug 19	HLG**	John Kappus	
Aug. 26	PPSS OPEN	John Read	Dog Daze
Sept. 4	RMSA Meeting		
Sept. 9	Open*	Bob Rice	AKA: Colorado Challenge Cup
Sept. 22- Sat	PPSS OPEN	Bob Avery	Soar Bash
Oct. 2	RMSA Meeting		
Oct 6&7	Visalia		Visalia California
Oct. 6 - Sat	PPSS HLG	Milt Woodham	HandLaunch
Oct. 14	Open*	Jim Monaco	
Oct. 21	PPSS RES	Mike Fritz	Witches Brew
Nov. 6	RMSA Meeting		
Nov. 11	Open*	Shannon Bingham	
Nov. 17 - Sat	PPSS OPEN	Dave Meyers	Turkey Shoot
Dec. 9	Awards Banquet		
Dec. 15	PPSS OPEN	John Read	BAM Fly

*Club Open points contest ** Club HLG points contest

Italics indicates major national level contests available for points and PPSS events



2000 Board Members

President:	Shannon Bingham	(303) 499-2314	binghams@boulder.earthnet.net
Vice President:	Jim Monaco	(303) 464-9895	j.m.monaco@worldnet.att.net
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Treasurer:	John Pearson	(303) 306-6800	jp7120@aol.com
Past President:	Mike O'Hearn	(303) 693-6925	m.o.hearn@worldnet.att.net

Member Support
<http://rmsa.bismarckhead.com>
 Chief

Instructor:	Jack Zika	(303) 279-1549	(303) 505-9488 (Pager)
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Librarian:	Tracy Cochran	(303) 934-8838	Tcochran@idcomm.com
Newsletter:	Jim Monaco	(303) 464-9895	j.m.monaco@worldnet.att.net

Winch Masters

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Bob Moffett	(303) 426-0328	Rtm0005@aol.com
Shannon Bingham	(303) 499-2314	binghams@boulder.earthnet.net
Gary Lewan	(303) 277-1375	
Dr. Dan Williams	(303) 439-7777	drdandc@juno.com



Directions to Field

Take I-76 to exit 16. Turn left and follow the frontage road through the circle onto 120th

sod farm.

Flying for RMSA members and accompanied guests only.



Rocky Mountain Soaring Association
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Aurora CO 80012

First Class Mail

Forwarding Address Requested