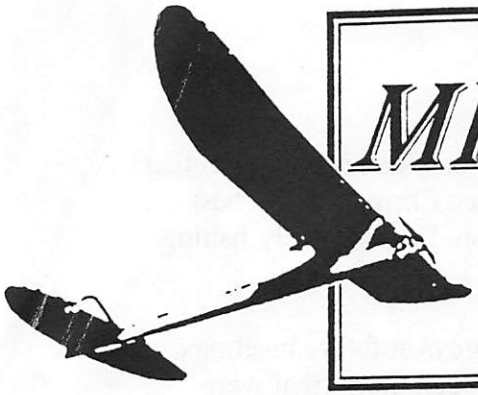
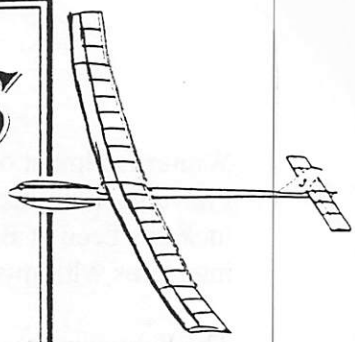


MINNEAPOLIS MODELER



Published six times per year by the Minneapolis Model Aero Club
1216 N. 8th St., Wausau, Wi. 54403

Established 1937 **Charter # 379**

Annual dues: Open...**$15.00** Senior...**$ 5.00** Juniors...**Free**
Subscription rate for non-members...**$ 6.00** / year

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V. President... **John Watkins** **(612) 525-1701** **Treasurer.....** **Jeff Ringlien (507) 663-1507**
Editor..... **Joe Huettl** **(715) 842-9638**

Issue No. 273 **March / April 2000**

Coming Events:

February 27th, 2000

Annual "Glider Madness". Come fling your arm out in the cold and snow. Meet @ Tim Johnson's house.
1316 Blue Heron Trail, Shakopee. 612-445-0239

March 3rd, 2000

Club meeting @ Air National Guard Museum...7:30 P.M. Silk covering demonstration by resident guru Gary Oakins.

March 19th, 2000

HLG (JSO)	Peanut Scale, Walnut Scale, Bostonian, No-Cal Scale, Jr. Rubber (heavy), Phantom Flash	Parlor Mite, Easy B, Jr. Rubber (light), Pennyplane

April 7th, 2000

Club meeting @ ANG Museum....7:30 P.M.

OAKIE'S ORACLES

Winter is almost over and yours truly hasn't built any new models. The only excuse I have is that I have been out ice fishing. I've gone fishing almost every Saturday since Christmas. My best luck has been at Bald Eagle Lake. I've caught many crappies and sunfish. Unfortunately fishing interferes with my model building.

The February meeting and auction was well attended. Hope to see you guys at future meetings. The club added a substantial amount to the treasury thanks to all who bought items that were donated. A special thanks to Bob Oppegard who donated about 90% to the auction.

At the March meeting I will give a demonstration on covering with silk. I think it's the best media to cover your planes. Once one learns the technique, silk is easy to work with. It's strong, nice looking and does not expand and contract as many coverings do.

Jeff Ringlien has graciously volunteered to be our new treasurer. Thanks Jeff.

The entire membership sends its condolences to Herman Fessler and his family on the loss of Herman's wife, Dorothy Fessler.

We lost another model aviation great, Harry Murphy. Harry passed away on Christmas Day 1999. Thermals forever, Harry.

On February 27, our annual Hand Launch glider "contest" will be held on a lake behind Tim Johnson's home. Linda and Tim have graciously agreed to host the affair. Weather permitting, we will fly some of our power ships.

Tim receives 26 attaboys for all the time he has devoted to various youth programs over the years. Rest assured, the boys appreciate the introduction into model aviation Tim gave them.

Craig Lamatsch and Aaron Peterson worked the mall show at Northtown Center Jan. 8 & 9. Craig reports there were many who built and flew the AMA Cubs. Aaron and Craig helped the youth build and trim the models. Thanks men.

Dick Bloomquist and Sid Jepson attended the King Orange International in Florida between Christmas and New Years Day. Sid placed 1st in Old Time B. Pylon Cabin and 2nd in Early Nos Gas. Dick really cleaned house; a 1st in .020 Rep., a 1st in C.D. Nos. Gas, a 2nd in C Gas, a 2nd in D Gas, and a 2nd in A Nos. Gas. Nice flying, boys. Clyde White was on his way to the contest when he had an altercation with a pickup truck that spun out and hit Cyde's van. No injuries but no K.O. Internats for Clyde. Jim Sr., Jim Jr, and Joe Jewell sent their greetings to our members from Florida. They plan to attend the Nats in July. Hope to see them there.

The summer contest schedule is as follows: May 21, Spring Meet, June 3, Mini F.A.I., June 4 Late Spring Meet, July 9, Summer Meet, Aug. 13 Almost Silent Meet, Sept. 10, Fall Meet and Oct 7 & 8, Octoberflug Meet. On Sat. June 3, the entire Mini F.A.I. events will be flown. Any

event scheduled for Sunday may be flown on Sat. If you start an event you must complete flying on Sat.

At the Octoberflug, Oct7, & 8, any event may be flown on either day but must be completed that day, no carry over to Sunday. B Gas will be a separate event at the June and the Octoberflug. A complete schedule will appear in your next newsletter.

Rise off water has been added to every contest. There will be no prizes, strictly for record purposes. John Watkins is making the "pond" for the event.

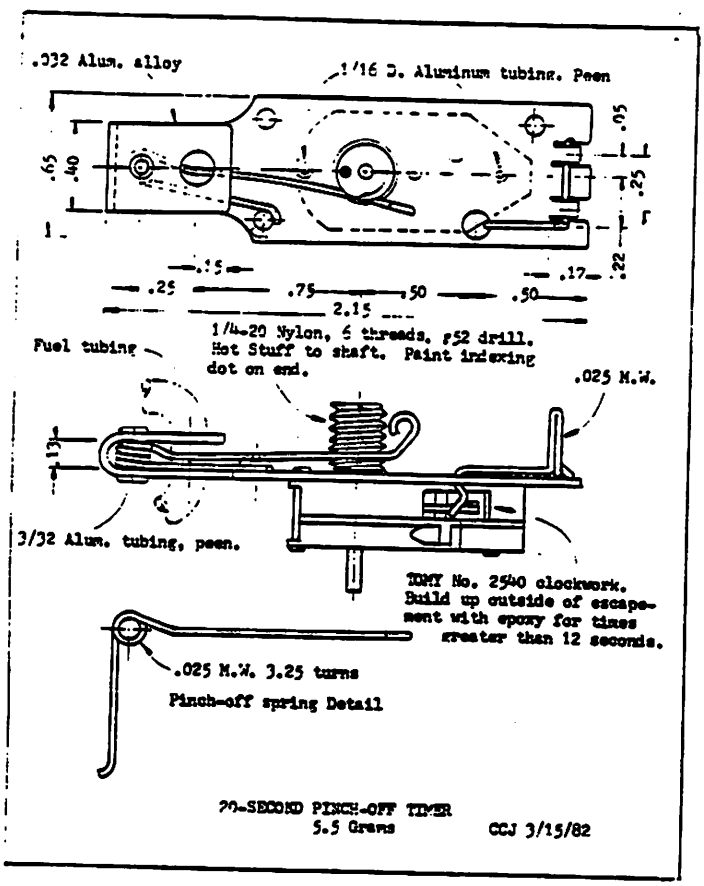
The goal for scheduling two two-day contests is to attract modelers from other states. We have a great flying field and desire to share it with other free flight modelers.

Trophies or merchandise for prizes at contests, what is your choice? This year we will follow the format of the past, trophies for first place the Mini F.A.I. and for first place at the Octoberflug, merchandise for all other places. Please contact Joe Huettl or me to voice your opinion.

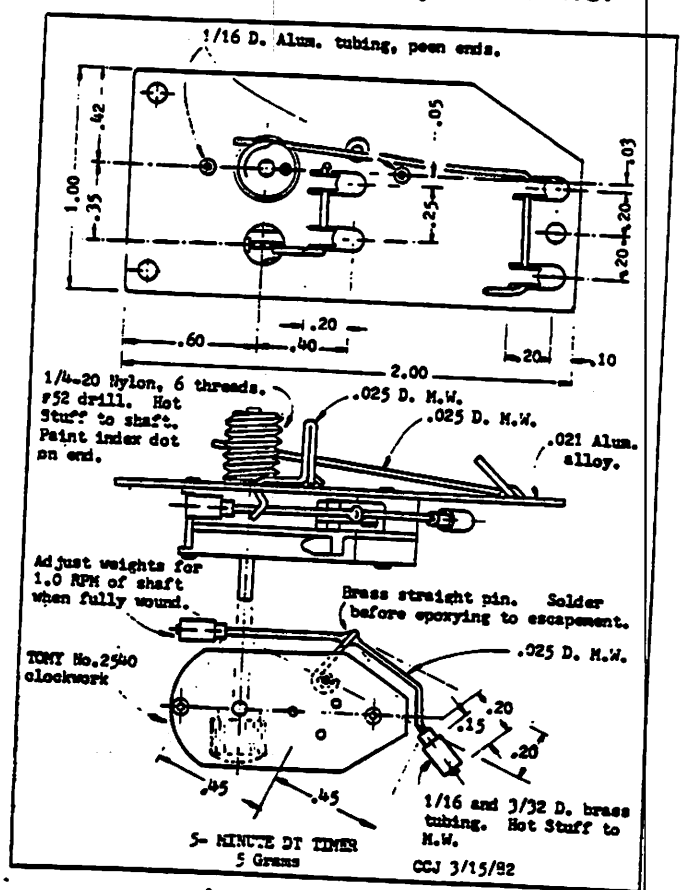
I must run ,a low pressure has moved into Minn. The sunfish are calling. See you at the meeting.

GARY

20-sec Pinch-off Timer



Five Minute Tomy DT Timer



VIA F.F. DIGEST

MAAC MINUTES FOR THE JANUARY 7TH, 2000 MEETING

The meeting was called to order at 1950 hours with President Gary Oakins presiding.
Number in attendance --- 18
The minutes for the December 3rd, 1999 meeting were read and approved.

CORRESPONDENCE
Gary Oakins volunteered to temporarily assume the duties of treasurer. No official action was taken on Gary's offer.
Gary Oakins talked to the owners of the sod/flying field, extending the club's seasonal greetings and presented them with Christmas cards.

OLD BUSINESS:
The annual fund raising auction will be held during the February meeting. Aron Peterson will conduct the auction if possible.
The Northtown Mall Model Builders Show will be January 8th and 9th. The hours for Saturday the 8th will be 8:30 to 5:00. The hours for Sunday the 9th will be 10:00 to 5:00. Your help and your airplanes will be appreciated.
A continued discussion of two day summer contests was discussed. No action was taken.
Contest prizes were discussed, an option of traditional prizes or awarding plaques/trophies on a winner take all basis. This discussion will be continued.

NEW BUSINESS:
Jim Ladwig made a motion to set the sanction for May 21, with the same schedule as last year. The Rise Off The Water event will be added to the schedule for record purposes only. The motion was seconded and passed. Jim Ladwig will be C.D.
The remainder of the schedule will be set at the March meeting.
Denny Sussman sent thank you's to the prize suppliers.
Jim Ladwig presented a financial report for the Youth Outreach Program.
The outdoor hand launch glider event was discussed and tentatively set to be held at Tim Johnson's.
The fly in at the Metrodome for students and club members of the free Flight Club will be Wednesday, January 26 from 4:00 until 7:00 PM.
The meeting adjourned at 2100 hours.

SHO AND TELL:
There was no show and tell.

Respectfully Yours,
Duane McDonnell
Secretary

Thank you to Denny Sussman (President), John Watkins (Vice President), Hank Liljequist (Secretary) and Don Paterson (Treasurer) for serving two terms as club officers. Thank you to Joe Huettle, for the outstanding production of the MMAC newsletters.

MAAC MINUTES FOR THE FEBRUARY 5TH , 2000 MEETING

The meeting was called to order at 1935 hours with President Gary Oakins presiding.
Number in attendance - - - 21
The minutes for the January 2000 meeting were read and approved.

CORRESPONDENCE
A written REPORT TO MMAC ON THE JANUARY SCHOOL EVENT IN THE METRODOME was presented by Jim Ladwig with comment by Don Patterson.
Denny Sussman reported on NFFS correspondences soliciting for help at the NATS.

OLD BUSINESS
Aaron Peterson reported on the Northtown Mall Model Builder's show.
The remainder of summer 2000 contest schedule was set for June 3 - 4, July 9, August 13, September 10, October 7 - 8 and the October 29th "Turkey Shoot". Note the two day event for October 7 - 8.
The outdoor handlaunch was set for February 27th, at 12 noon at Tim Johnson's.
Tim's address is 1316 Blue Heron Trail, Shakopee, MN. For further directions, call 445-0239.
Jeff Ringlien is the new Treasurer.

NEW BUSINESS
Gary Olkins will demonstrate silk covering at the March meeting.
Frank Nieder presented the club with Old Country Buffet complimentry tickets to be used as contest or raffle prizes. Thank you Frank.
The club members in attendence were reminded of the upcoming Sports Aviation event at the Minneapolils Convention Center.

The meeting was adjourned at 2015.
No raffle was conducted.
No show and tell was presented.

Aaron Peterson conducted the annually anticipated auctions. Thank you Aaron.

Respectfully Submitted
Duane McDonnell
Duane McDONNELL
Secretary

Midair Passenger Exchange: Grim air-traffic-controller-speak for a head-on collision. Midair passenger exchanges are quickly followed by "aluminum rain."

Indoor Meet January 9th, 2000

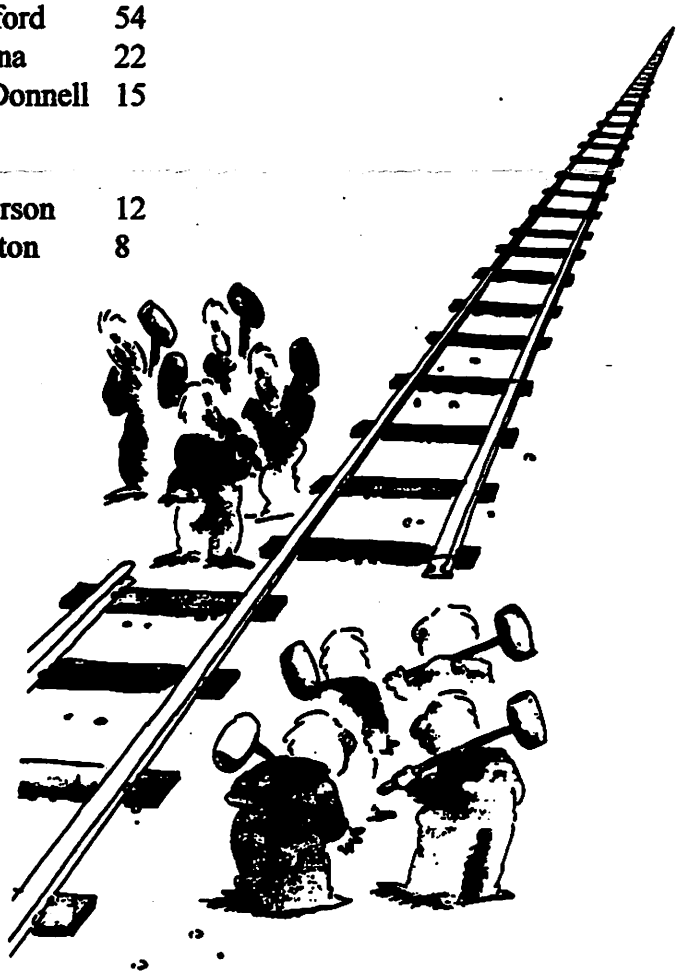
Gary Oakins, C.D.

Placing	Contestant	Model	Scale Points	Flight Score	Total
		PEANUT SCALE			
1st.	Jorge Triana	Monocoupe	58.5	64	122.5
2nd.	Greg Thomas	Fike	59.5	55	114.5
3rd.	Hank Liljequist	Fike	47	54	101
4th.	Warren Ringlien	Gonagobi	51	10	61
		WALNUT SCALE			
1st.	Jorge Triana	MacBird	59	45	104

"When I was younger, I could remember anything, whether it had happened or not." —Mark Twain

Placing	Contestant	Score
	BOSTONIAN	
1st.	Hank Liljequist	79
2nd.	Bob Griffiths	70
3rd.	Jorge Triana	69
4th.	Warren Ringlien	49
	PENNYPLANE	
1st.	Jorge Triana	6:02
2nd.	Gordon Dona	5:08
3rd.	John Watkins	4:29
4th.	Colleen Watkins	4:04 !!!
5th.	Jerry Jagerson	3:53
	PARLOR MITE	
1st.	Gordon Dona	4:17
2nd.	Jorge Triana	3:56
3rd.	Warren Ringlien	3:48
4th.	Hank Liljequist	2:19
	JR. RUBBER (LIGHT)	
1st.	Colleen Watkins	3:03
2nd.	Cate Watkins	1:36
3rd.	David Pederson	1:17
	JR. RUBBER (HEAVY)	
1st.	Colleen Watkins	50
2nd.	Cate Watkins	42
3rd.	David Newton	5
	NO-CAL SCALE	
1st.	Hank Liljequist	82
2nd.	Duane McDonnell	60
3rd.	Alec Lakedon	54

Placing	Contestant	Score
	PHANTOM FLASH	
1st.	Hank Liljequist	93
2nd.	Warren Ringlien	83
3rd.	Duane McDonnell	62
	MIG (SO)	
1st.	Gary Crawford	54
2nd.	Gordon Dona	22
3rd.	Duane McDonnell	15
	MIG (2)	
1st.	David Pederson	12
2nd.	David Newton	8



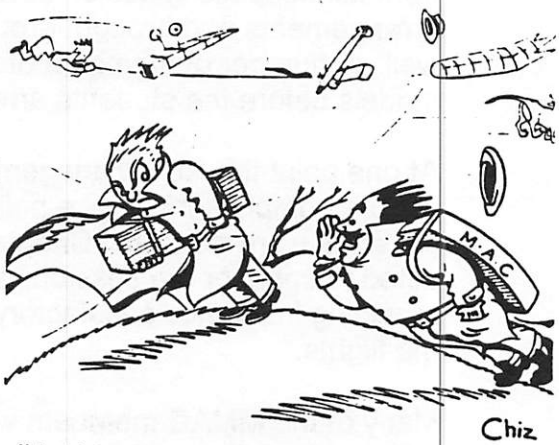
Indoor Meet February 20th, 2000

Hank Liljequist, C.D.

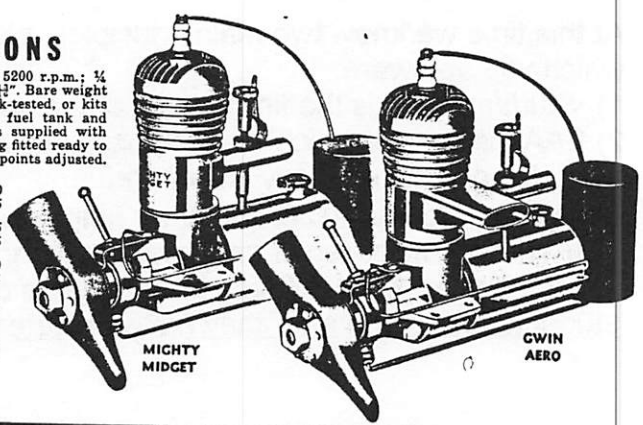
Placing	*Contestant*	*Model*	*Scale Points*	*Flight Score*	*Total*
		PEANUT SCALE			
1st.	Hank Liljequist	Fike	48	37	85
2nd.	Warren Ringlien	Gonagobi	51	23	74
3rd.	Jeff Ringlien	Taylorcraft	30	3	33
		WALNUT SCALE			
1st.	Jack O'Leary	Taylorcraft	50	43	93
2nd.	Jeff Ringlien	T-34	34	11	45

Placing	*Contestant*	*Score*
	BOSTONIAN	
1st.	Bob Griffiths	79
2nd.	Hank Liljequist	78
3rd.	Warren Ringlien	69
4th.	Jack O'Leary	57
	PENNYPLANE	
1st.	Gordon Dona	4:34
2nd.	John Watkins	3:08
3rd.	Colleen Watkins	2:06
	MINI-STICK	
1st.	Gordon Dona	1:15
	JR. RUBBER (LIGHT)	
1st.	Colleen Watkins	3:01
2nd.	Briana Jorgensen	1:22
	JR. RUBBER (HEAVY)	
1st.	Colleen Watkins	1:15
2nd.	Briana Jorgensen	:50
	NO-CAL SCALE	
1st.	Hank Liljequist	99
2nd.	Jeff Ringlien	59
3rd.	Alex Lakedon	54
4th.	Jack O'Leary	24

Placing	*Contestant*	*Score*
	HLG	
1st.	Gary Crawford	55.4
2nd.	Tim Johnson	40.7
3rd.	Gordon Dona	39.2
4th.	Jeff Ringlien	11.8
	CATAPULT GLIDER	
1st.	Gary Crawford	48
2nd.	Tim Johnson	37.1
3rd.	Lyman Hatz	16.4



" I said, ' Isn't it nice to have SPRING with us once more ' ! "



Here's an ad from the September 1938 *Model Airplane News*. Engines are typical of the ones manufactured by Bunch in that era. The long-remembered Bunch Tiger came out a little later.

SPORTS CENTER HELPERS

Those MMAC members who work regularly with school groups in building model planes sincerely appreciate the help that has been given in winding and adjusting the models of the students during our sessions in the sports center.

During the January 26 session there it seemed apparent that not all club members are aware of the background of this operation.

Harry Gerrish made the first contacts and secured use of the space for groups from Minneapolis schools. Later, Aaron Petersen made the scheduling arrangements and brought groups from schools and other groups in St. Paul as well. A number of members of MMAC would help the students, flying their own models before the students arrived and after they had departed.

At one point the Risk Management professional entered the act, and declared that a more complete insurance policy was required in order to use the facility. No sessions were held until Chapter 25 of the Experimental Aircraft Association voted to sponsor the sessions as part of their chapter activities, thus providing insurance satisfactory to Risk Management. EAA members also help with the flights.

Many of the MMAC members who formerly helped with the sessions became unable to do so, the early traditions evaporated and newcomers were not briefed on them. It seems time to dig them out and publicize them. We hope that those members who had early experience with these sessions can advise us about the proper guidelines and rules. Nothing should be done that will jeopardize the access of students to this rare experience.

At this time we know two main principles, please advise us of any others of which you ae aware.

1) Student flying is the first priority of the session.
2) EAA insurance, which makes possible our use of the facility, specifically excludes operation of any RC aircraft.
3) Members of MMAC & any other helpers should work with the students modelers to adjust, trim, wind, launch, repair and understand how each effects the models flight pattern.
4) Members of MMAC & any other helpers can trim & fly their own models before the students arrive and after they have departed.

Joke stolen from the SATELLITE Newsletter, Ralph Prey, Editor:

This cannibal went to the Butcher shop and asked for brains. The butcher said the price was $1 per pound for free flight brains, $2 for FAI, and $25 for R/C brains. How come the R/C brains are so high, asked the cannibal. "Man," the butcher replied, "do you know how many R/C fliers it takes to make a pound of Brains?"

SAY WHAT ???

musings by the editor...

Just a couple of items this issue....

Dorothy Fessler, wife of member **Herman**, has passed away. Our condolences go out to Herman and all his family. Send cards etc. to : Mr. Herman Fessler 12439 Magnolia St. NW, Coon Rapids, Mn. 55448.

It's my sad duty to report to you on the death of longtime member **Bob Oppegard** on Friday, 2/25/00. You may remember that Bob received a special award at this past years Nats in recognition of his "state of the art" rubber stripper. Send condolences to: Mrs. Ruth Oppegard 10837 N. 57th Dr., Glendale, Az. 85302

Those of you who haven't paid your dues or newsletter fees ...Please do so! This will be the last issue you receive until doing so. Thank You.

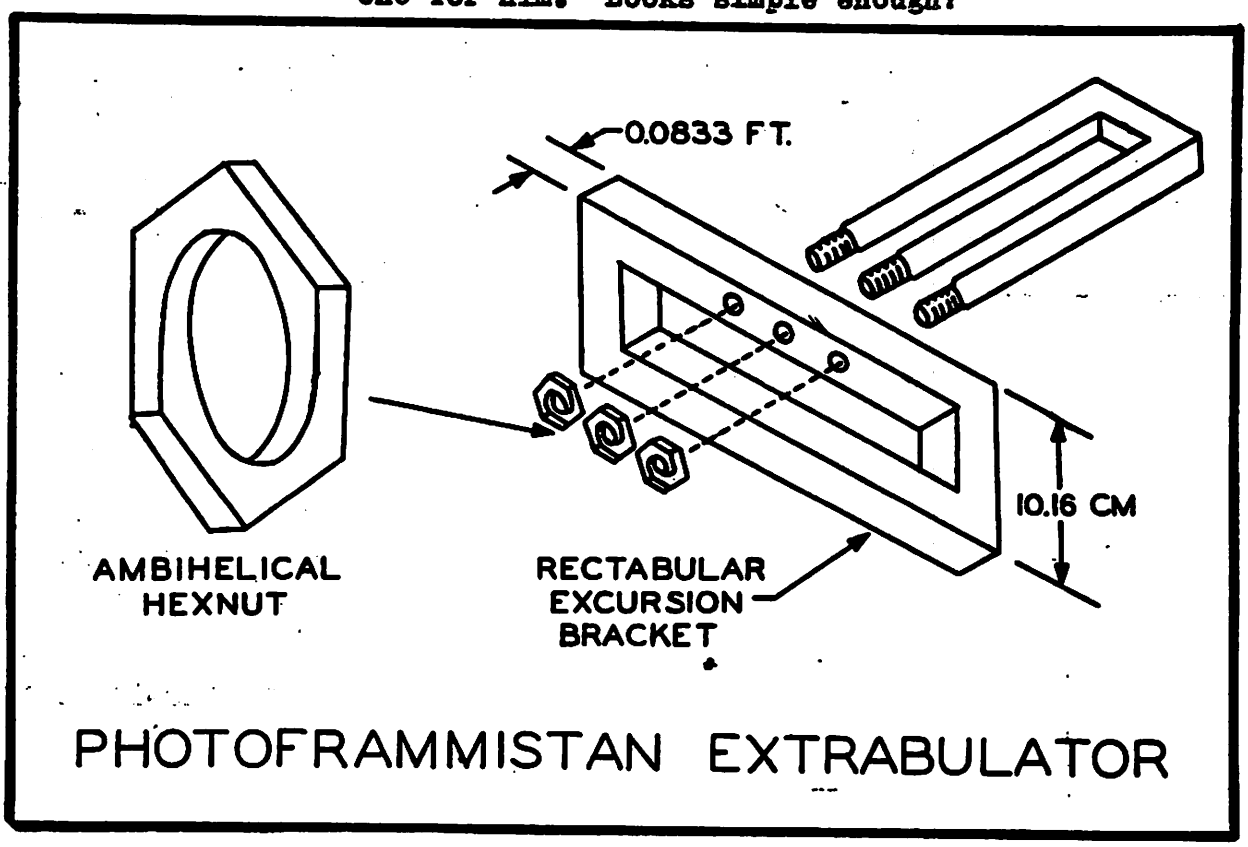
Just ordered some of the carbon fiber "sock" as described in the March, Free Flight Duration, issue of Model Aviation. As you know I've been messing with Carbon and Kevlar and other "exotics" these past couple / three years. I'll pass on the results at a later time. I love this stuff...am still learning where, when and how much to use but like anything new it's a learning process

C Ya,.

Joe

PHOTOFRAMMISTAN EXTRABULATOR

BRUCE HUMPHREYS submits an isometric drawing of a device designed for wings with severe warps. He is looking for a machinist who will contribute the time to build one for him. Looks simple enough!



Aviation 101

• Takeoffs are optional. Landings are mandatory.

• If God meant man to fly, he'd have given him more money.

• If you push the stick forward, the houses get bigger, if you pull the stick back they get smaller. (Unless you keep pulling the stick back. Then, they get bigger again.)

• Flying is not dangerous, but crashing is.

• It's better to be down here wishing you were up there, than up there wishing you were down here.

• The propeller is just a big fan in the front of the airplane to keep the pilot cool. Want proof? Make it stop, then watch the pilot break into a sweat.

• Speed is life, altitude is life insurance. No one has ever collided with the sky.

• It's best to keep the pointed end going forward as much as possible.

• The only time you have too much fuel is when you're on fire.

• Flying is the second greatest thrill known to man. Landing is the first!

• Everyone already knows that the definition of a good landing is one from which you can walk away. But very few know the definition of a great landing. It is one after which you can use the airplane another time.

• The probability of survival is equal to the angle of arrival.

• Always remember, you fly an airplane with your head, not your hands. Never let an airplane take you somewhere your brain didn't get to five minutes earlier.

• You know you've landed with the wheels up when it takes full power to taxi.

• A helicopter is a collection of rotating parts going round and round and reciprocating parts going up and down. Helicopters can't really fly. They're just so ugly that the earth immediately repels them.

• Young man, was that a landing or were we shot down?

• There are three simple rules for making a smooth landing. Unfortunately, no one knows what they are.

• The only thing worse than a captain who never flew as co-pilot is a co-pilot who once was a captain.

• Be nice to your first officer, he may be your captain at your next airline.

• Any attempt to stretch fuel is guaranteed to increase headwind.

• A thunderstorm is never as bad on the inside as it appears on the outside. It's worse.

• It's easy to make a small fortune in aviation. You start with a large fortune.

• A fool and his money are soon flying more airplane than he can handle.

• Remember, you're always a student in an airplane.

• Try to keep the number of your landings equal to the number of takeoffs.

• You cannot propel yourself forward by patting yourself on the back.

• Flying is the perfect vocation for a man who wants to feel like a boy, but not for one who still is.

• Being an airline pilot would be great if you didn't have to go on all those trips.

• Learn from the mistakes of others. You won't live long enough to make all of them yourself.

• Trust your captain, but keep your seat belt securely fastened.

• Good judgment comes from experience and experience comes from bad judgment.

• Aviation is not so much of a profession as it is a disease.

• Gravity never loses! The best you can hope for is a draw.

from The Glitch
Michael Barrett, editor
1261 E. Fort Lane
Pleasant Grove UT 84062

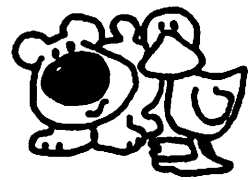
V/A BRAINBUSTER NEWSLETTER

ABRAM VAN. DOUER, EDITOR

.035 x .040

.062 x .040

.031 sq



Cover with Polymicro

Lift wing tips for 6.99 Span

1.25

3.15

2.82

1.25

.031 sq

.046 x .031

.031 sq

.031 sq

Lift Rudders for 5.25 Span

1.125

2.35

2.35

1.125

.031 sq

(Blade shown flat)

7 x 15

Helical Pitch

.010

Prop Spar 6 Lb

Ribs .031 x .020

Ribs, tips, motor stick, struts,prop blades 4 Lb

Wing and Stab Center Spars 5 Lb

Power 10.5 inch loop (.38 Gm) Tan II

Walt's Mini

Feb 99

.040 sq

.040 sq

.150 x .080

.185 x .110

.140 x .080

Ribs .031 x .020

Pigtail Bearing .010

Prop Shaft .012

Rear Hook .010

.070 x .062

.031 sq

1.65

The Minneapolis
Model Aero Club
1216 N. 8th St.
Wausau, Wi. 54403

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