Established 1936
SKY-SCRAPERS BKLYN NY
AMA Club Charter 470

FLYOFF

Round 17 / Spring 1992

The SKYSCRAPERS Quarterly

Edited by Bob Hatschek

What's Up? XVII

Thanks, thanks, thanks!

FLYOFF 16 gave you the first report on the Galeville cleanup and the map showing what was done prior to the 25th Skyscrapers International Challenge—the first meet held at the manicured field. That original trail-cutting project cost $1000, not including the out-of-pocket expenses of several volunteers who assisted in tree-cutting and various other tasks that were not assigned to the landscaping contractor. Round 16 asked for contributions to pay for the operation. Response to that appeal has been magnificent!

To date, the Galeville Maintenance Fund has received $1740 in cash and checks, and pledges of $750 from the Eastern Free Flight Conference and $500 from the AMA Executive Council. Individual *FLYOFF* readers who were quick with their checkbooks were Bill Fox of Guttenberg, NJ, Joe Williams of Brookville, Pa., and Walt Rozelle of Atlanta Ga. But probably the most heart-warming contribution of all—for the Skyscrapers, at least—was a check from one of the 55-year-old club's earliest members, Sal Taibi. Thanks, guys!

We also made an appeal for funds to continue, and perhaps expand, on the work. We hereby repeat that appeal: Please send contributions (payable to the "Skyscrapers") to Tom Waddington, 3504 Carol Ct, Yorktown Heights, NY 10598. He will deposit the funds in a separate account for the sole purpose of maintaining and improving the Galeville flying site.

We're not sure what the ongoing cost of field maintenance will be. Each mowing of the same ground will cost less in the future, but it will probably be required at least twice a year. That stuff does keep growing! And experience may suggest that we need an additional trail or two.

FLYOFF will, of course, keep all readers up to date. The table on this page lists all donations and expenditures so far.

Galeville Maintenance Fund, 1/10/92

Donor	Amount	Balance
Skyscrapers		
Anonymous, 10/91	1000.00	
Jack Rice, 10/91	100.00	
Tom Waddington, 11/91	100.00	
Bob Hatschek, 11/91	100.00	
Hank Cox, 11/91	50.00	
Dennis Phillips, 11/91	75.00	
Unknown (cash), 11/91	50.00	
Art Phillips, 11/91	5.00	
		1480.00
Non Skyscrapers		
SAM 7 / C. Botticello, 11/91	50.00	
Joe Williams, 11/91	20.00	
William Fox, 11/91	50.00	
Sal Taibi, 11/91	50.00	
Walt Rozelle, 12/91	30.00	
Metro Sport Squadron / Don Ross	60.00	
		1740.00
Expenditures		
Brush removal & mowing, 10/6/91	—1000.00	740.00
Pledges		
AMA Executive Council, 11/91	500.00	
Eastern FF Conference, 11/91	750.00	

Joe Beshar is now District II veep

The Skyscrapers enthusiastically congratulate Joe Beshar on his election as AMA Vice President for District 2!

And we sincerely thank his predecessor, John Byrne, for the many years he served in that position. It's time to take a break now, John, so you can relax and enjoy our favorite pastime to the fullest extent.

The Skyscrapers are especially pleased with Joe's election because he not only has many years of experience in a variety of aeromodeling disciplines that include free-flight but also he continues to fly free-flight. Unlike many former free-flighters whose hindsight seems to be colored by rose-tinted lenses, Joe is quite aware of the problems and pleasures we face in the current decade. And he has proved himself a very active doer.

Joe and Mrs. Beshar will be guests of the Skyscrapers at our annual dinner meeting on Saturday, March 7.

Hey, Skyscrapers, you come, too!

You can congratulate Joe for yourself when you come to the party at Manero's Steak House in Greenwich, CT, on Saturday, March 7. Dress is as formal or as informal as you like. The party starts at 3:00 in the afternoon, and dinner is scheduled for 5:00.

Once again we will have a private room and drinks will be available at a cash bar. The menu will include your choice of filet mignon, chicken Florentine, or the fish of the day. Price will be $18.25 per person, including gratuities. You DO NOT have to make an advance menu selection nor even pay in advance.

BUT PLEASE CALL Bob Langelius (914/949-6083), preferably at least a week in advance to tell him how many are coming. He'll tell Manero, and Manero will know how big a room to set up with how many chairs.

To get there, take I-95 (north or south) and get off at Exit 3 (Arch Street) in Greenwich. Take Arch St. east for a short distance to Steamboat Rd. Turn right (south). Manero's is at 559 Steamboat Rd. (left side) one long block from Arch St. If you get lost, call Bob Langelius at Manero's (203/869-0049) for directions.

Looking backward, looking forward

Round 17 is being written in January—named for Janus, the two-faced Roman god who looked both fore and aft. Thus, this issue

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1991 Skyscraper Monthly Meet results

May 12, Bob Lipori, CD

ABCD		NosGas		PW30	
C. Darling	295	D. Phillips	206	R. Delinski	750
D. Phillips	84				
HLG		**Catapult**		**P30**	
A. Ellis	125	R. Delinski	96	H. Cox	326
B. Ellis	40	V. Nippert	40	V. Nippert	314
P-30U		**Mulvihill**		W. Buss	182
A. Phillips	63	R. Delinski	246	R. Delinski	146

June 16, Bob Lipori, CD

ABCD		NosGas		PW30	
M. MacLean	260	M. MacLean	303	R. Delinski	1730
HLG		**Catapult**		**P30**	
L.Pelatowski	199	V.Nippert	182	L. Pelatowski	360
E.Pelatowski	128	R.Delinski	162	V. Nippert	320
P-30U		**Mulvihill**		H. Cox	298
R. Factor	540	V. Nippert	393	R. Delinski	281
A.Phillips	540	R.Factor	360		

July 14, Bill Colish, CD

ABCD		NosGas		PW-30	
M. MacLean	360	M. MacLean	281	R. Langelius	2226
C. Darling	322	R. Langelius	211	M. MacLean	1726
D. Phillips	276	D. Phillips	188	W. Colish	843
P-30		**F1ABC**		**Mulvihill**	
W. Buss	327	D. Gagliano	528	J. Rice	360
H. Cox	296	M. Gagliano	133	W. Buss	120
J. Rice	279	**P-30U**		R. Factor	110
R. Factor	278	J. Rice	359		
		A. Phillips	352		
		W. Buss	345		

Aug 11, Dave Acton, CD

1/2A		ABCD		F1ABC	
L.Pelatowski	299	D.Phillips	70	H. Cox	571
HLG				E. Pelatowski	134
L. Pelatowski	64	**Catapult**		L.Pelatowski	98
P-30		V.Nippert	59		
V. Nippert	313	**P-30U**		**Mulvihill**	
W. Buss	148	W.Buss	120	V.Nippert	240
H. Cox	86	A.Phillips	64	W.Buss	183

Sept 22, Jack Minassian, CD

1/2A		ABCD		NosGas	
D. Delinski	339	C. Darling	339	M. MacLean	279
		M. MacLean	240	D. Phillips	180
PW-30		D. Delinski	235		
A. Abriss	1683	**.020 Replica**		**F1ABC**	
D. Delinski	1392	D. Delinski	287	H. Cox	545
HLG		**Catapult**		**P-30**	
L.Pelatowski	196	V. Nippert	224	V. Nippert	325
P-30U		**Mulvihill**		H. Cox	314
J. Rice	357	R. Hatschek	780	W. Buss	282
W. Buss	341	V. Nippert	481	R. Hudson	221
A. Phillips	322	J. Rice	240	J. Rice	69

Oct 27, Dave Acton, CD

1/2A		ABCD		NosGas	
L.Pelatowski	353	C. Darling	329	M. MacLean	342
B. Church	346	M. MacLean	258	**HLG**	
D. Delinski	271	C. McGeary	234	L.Pelatowski	95
C. McGeary	42	D. Delinski	221		
PW-30		**.020 Replica**		**F1ABC**	
D. Delinski	1308	D. Delinski	131	R. Lipori	351
A. Abriss	921	**Catapult**		H. Cox	334
P-30		V. Nippert	101	**Mulvihill**	
V. Nippert	300	**P-30U**		V. Nippert	360
L. Pelatowski	166	A. Phillips	98	R. Hatschek	120

Final Point Standings, 1991 Monthly Meet Series

1/2A		ABCD		NosGas	
L.Pelatowski	20	C. Darling	30	M. MacLean	30
D. Delinski	15	M. MacLean	27	D. Phillips	24
B. Church	7	D. Phillips	22	R. Langelius	7
C. McGeary	4	D. Delinski	9	**.020 Replica**	
P-30U		C. McGeary	5	D. Delinski	20
A. Phillips	30	**HLG**		**F1ABC**	
W. Buss	22	L.Pelatowski	30	H. Cox	27
J. Rice	20	E.Pelatowski	7	R. Lipori	10
R. Factor	10	**Catapult**		D. Gagliano	10
P-30		V. Nippert	30	M. Gagliano	7
V. Nippert	30	D. Delinski	17	E. Pelatowski	7
H. Cox	24	**Mulvihill**		L. Pelatowski	5
W. Buss	22	V. Nippert	30	**PW-30**	
J. Rice	17	R. Hatschek	17	D. Delinski	30
L. Pelatowski	10	J. Rice	15	A. Abriss	17
D. Delinski	8	W. Buss	14	R. Langelius	10
R. Hudson	4	R. Factor	12	M. MacLean	7
R. Factor	4	D. Delinski	10	W. Colish	5

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wraps up a few items from last year before going on to the '92 season. Some contest results from last year, for instance (see above, and below).

For a sample of the future, turn to page 6 for the '92 Contest Calendar. This is not limited to local area meets, but rather represents an international "wish list" of meets that Northeastern free-flighters might like to attend. I would!

We apologize for the omission of many meets, especially on the West Coast. But there is a space limit, and we tended to pick those meets that had the most personal appeal for us.

Davidson triumphs at '91 SAM Champs

The 1991 SAM Champs was held on the dry lake bed near the Nevada Landing Casino. Larry Davidson reports the dust at the field was "terrible at best, particularly when the wind and dust devils came through" and he "was very reluctant to run engines under the conditions." But, being a Skyscraper competitor at heart, he flew the following events with the results indicated:

1/2A Texaco (7 in flyoff)	2nd place
Texaco	No place (engine problems)
Antique (2 in flyoff)	2nd
A-LER, Ign (no flyoff)	1st
B-LER, Ign (2 in flyoff)	1st
C-LER, Ign (11 in flyoff)	1st
Spirit of SAM Concours	3rd (with 75" Playboy Sr)

All of which resulted in Larry's winning the Grand Championship in RC Assist with 23 points.

Small Parts, Inc. has moved

. . .to 13980 NW 58 Ct., P.O. Box 4650, Miami Lakes, FL 33014-0650. And they have new phone numbers, as follows: 305/557-

8222 for the Order Dept.; 305/557-7955 for Customer Service (ask for Mirta); 305/558-1255 for the Catalog (ask for Elizabeth); 305/557-8004 for Custom-Made Parts (ask for Ziggy); and 305/557-8005 for Non-Standard Sizes (of catalog items—ask for Eric). Their toll-free Fax number remains 1-800/423-9009.

So what, you may ask. Small Parts Inc. is one of the best sources I've ever used for the miniature hardware we must have. Such as: machine screws down to #000-120, metric screws, nylon screws down to 2-56 (all available in quantities of 10, 25, 100 or 1000); aluminum, steel, brass, Delrin, nylon, and Teflon in bar stock and flat stock; a full range of stainless hypodermic tubing, shrink tubing, and even the brass or aluminum telescoping tubes you're familiar with. Their 246-page catalog is free. Get one!

The top Skyscrapers in 1991

Our point man (the guy who tallies all the scores you submit to him before the end of January) reports that the high-scoring club members for 1991 were as follows:

Jack Nix	788 points scored
Jean Pallet	602
Mal MacLean	365
Bob Hatschek	352
Dick Delinski	215
Mirek Hrycak	194
Aram Schlosberg	166

The top three will get their rewards at the Skyscrapers' dinner meeting on March 7 (see item on page 1), as will the recipients of the Royal Order of the Purple Shaft and the club's Outstanding Member Award. Winners of the latter two awards remain unidentified until the trophies are presented.

Revised Schedule 1992 Nats Indoor

Sunday 6/21	Monday 6/22	Tuesday 6/23
8am—Noon	8a.m—Noon	8am—Noon
HLG (J)	Peanut Scale (J)	Bostonian (J)
Catapult Glider	Rubber Scale	
Noon—5pm	Noon—5pm	Noon—5pm
Ltd PennyPlane (J)	EZB	Intermed Stick
5pm—9pm	5pm—8^{30}pm	5pm—9pm
PennyPlane	F1D	F1D
Manhattan Cabin		

Note: (J) events in two age groups: Jr only & Sr-Open combined

Springwinding —by Bob Hatschek, the Skyscrapers

[The following response to a reader's letter asking where to get a spring for a Hiborks prop hub may be of interest to others. The methods will work for making almost any coil spring needed on a FF model. Only the sizes need changing. — the Editor]

You could probably buy the Hiborks spring—very possibly at your local hardware store. But you can make it faster than you can find it. For this reason—and because spring-making is no big deal—I make virtually all the springs I ever use.

This particular spring does not require any precision. And it should be pretty weak.

One way to make it is simply to do it with round-nose pliers. Just keep bending circles until you have the necessary number of coils—maybe 6 or 7. Actually, you could even do it with ordinary needle-nose pliers. The spring will

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Mini PrimeTime — By Ed Kock, WNYFFS

This model, which has come within 20 sec of breaking the national record in 1/2A, is a simplified version of the C-D PrimeTime that currently holds the AMA Category III records in class C and class D. [The larger C-D version was published in FLYOFF, Round 8, Winter '89—Ed.] Also, Mini PrimeTime won 1/2A at the 1991 Nationals and, with an .061, placed fourth in F1J.

Performance is tops in any size! To date, the series has logged about 100 officials; only 5 of them non-maxes, and 4 of these were in the 4-sec/2$^1/_2$-min rounds! Furthermore, the design is very easy to trim. The Mini that won 1/2A at the Nats, for example, was brand new, and was trimmed out on the day before its victory.

The Mini PrimeTime uses the CS engine—an .049 for 1/2A and an .061 for F1J—modified by Doug Galbreath. Out of the box, they're not very good. But Doug works strong magic on both sizes. Retimed, using a Nelson plug, burning 50% nitro, and turning a 5$^5/_8$-diameter by 2$^1/_2$-pitch carbon-fiber prop, the .061 will turn a solid 28,000 rpm. My fuel system is simply an external pacifier, which could be enclosed for a neater installation. Also, I was able to cut the engine down by about 12 grams, which still leaves a very short nose if the rear end is kept light—and that combination lets PrimeTime pop into the glide very nicely.

The principal differences in the Mini version are a flat-bottom airfoil and a 1/3–2/3 tip taper instead of 2/3–1/3 planform.

First step in getting your Mini PrimeTime built is to "expand" the full size drawing. Make a few Xerox copies of the plan to work with. Cut the wing plan into two parts and, with rubber cement or tape, affix the two pieces to a larger sheet of paper in careful alignment, but separated far enough to provide five 2$^1/_2$-in. bays, as indicated. Complete the ruling in all the spars, draw the missing ribs, and you have a finished "half plan" of the wing that can be traced and reversed for the other half. The stabilizer half is simply traced and flopped for the full building plan.

The fuselage side view is done similar to the wing, aligning the front end and the rear end on the bottom longeron, which is a straight line, and "stretching" the 37-in. arrow to its full dimension. Now fill in the rest of the side view details and start building.

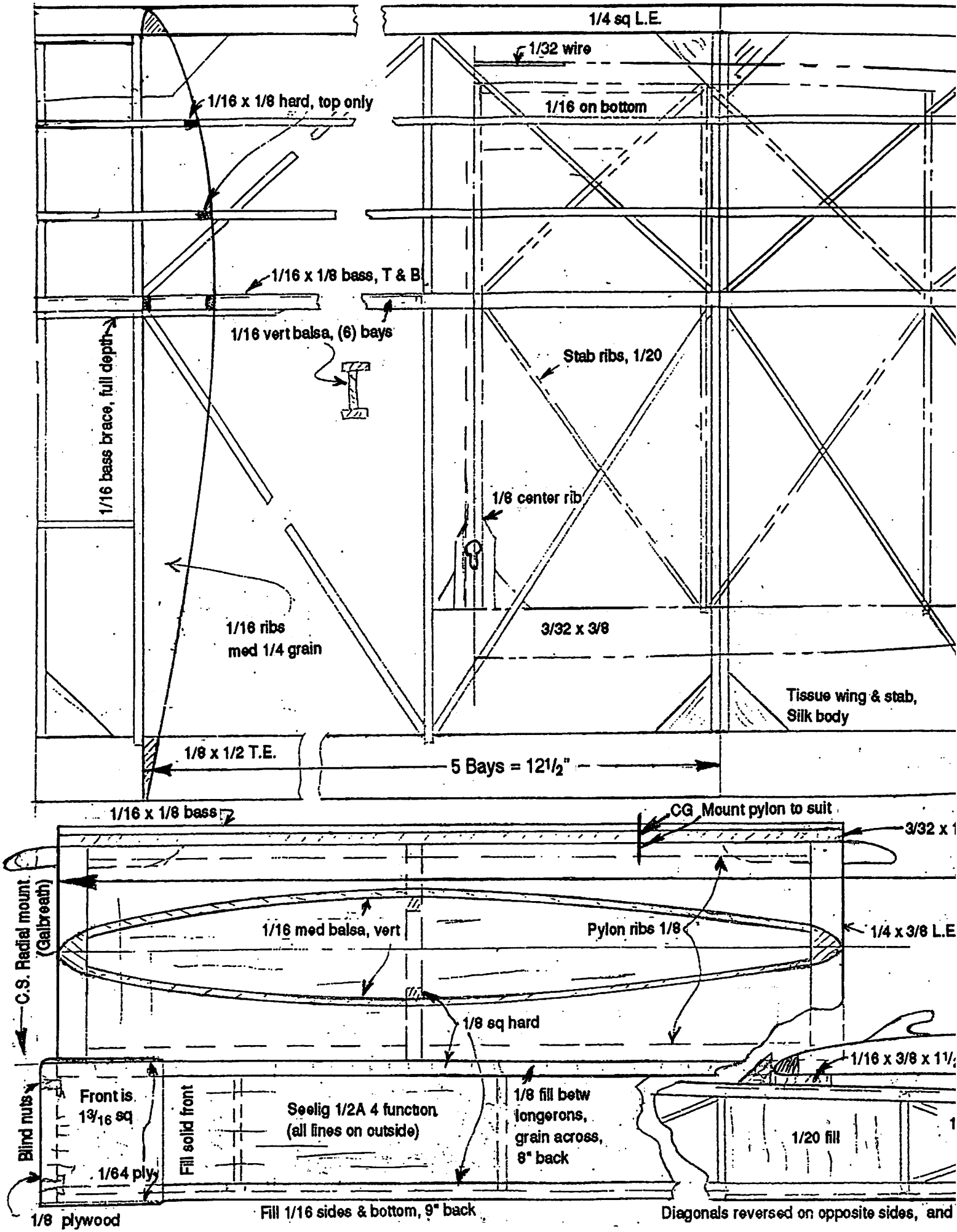
[Note: Fully expanded plans, including left and right halves of wing and stab, are available from Don Simpkins, 2215 Eucalyptus Dr, Arlington, TX 76006. Price is $6 (pp) and Don sends it rolled in a mailing tube. Send order direct to Simpkins, not to FLYOFF.—Ed.]

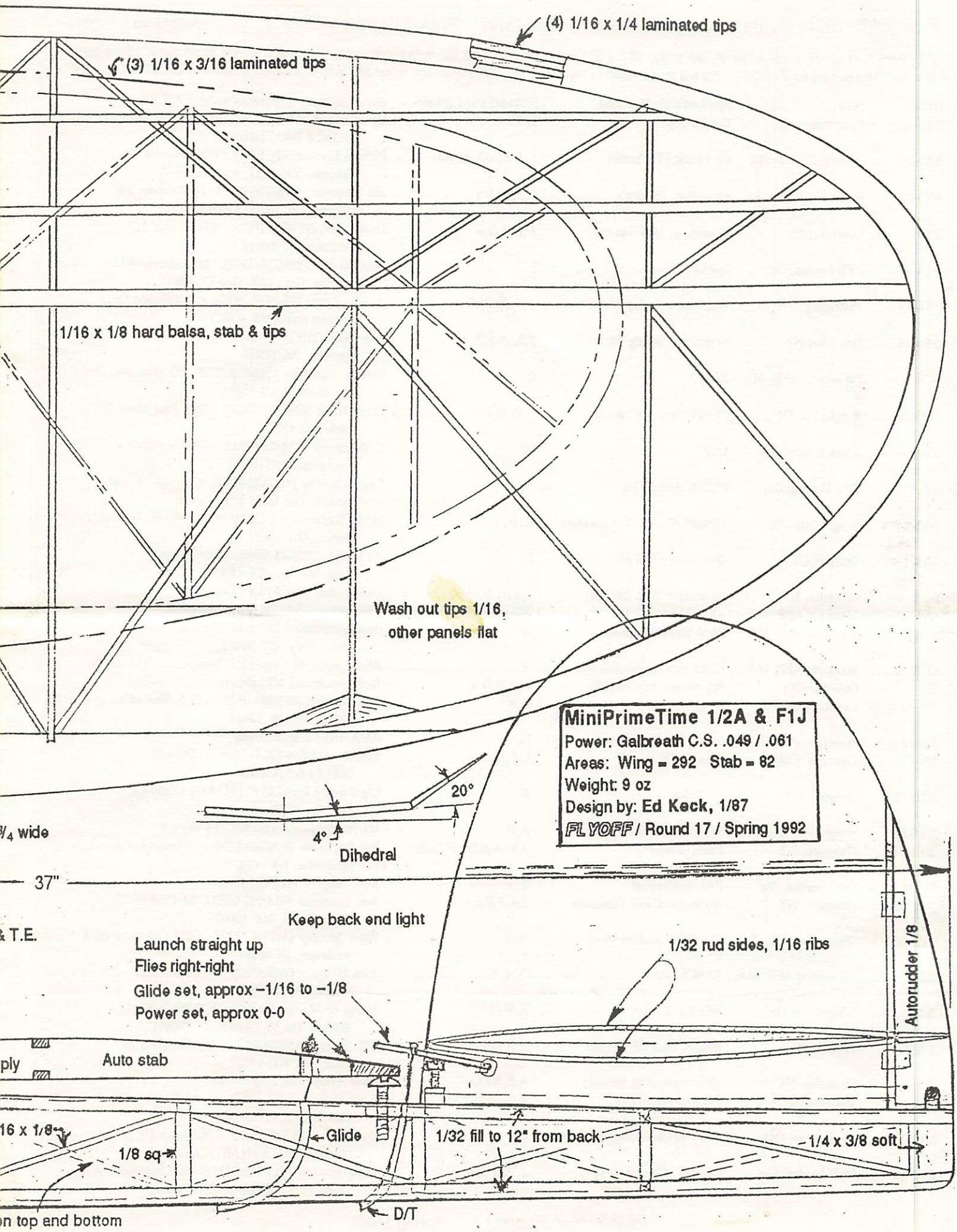
The laminated tips are built using a method developed by the late Dave Andrew. Make a wooden template from 3/4-in.-thick stock and form the curves to this extra depth. Then slice off 1/4-in. thicknesses with a balsa stripper. This yields strong, lightweight outlines that are identical in both shape and weight.

Building the rest of the structure is quite straightforward, but do not omit the diagonal wing ribs, and be sure the diagonals in the fuselage are all inserted at opposite angles on opposite sides and on the top and bottom. Rubber modelers truss their fuselages this way to resist the torsion of a fully wound rubber motor; it will also prevent any twisting in flight on a fast-moving power model.

Surfaces are tissue covered and doped with unplasticized nitrate dope, then fuel-proofed with one coat of thinned K&B clear epoxy. The body may be either silked or tissued.

Other than equal 1/16-in. washout in both wingtips and a bit of downthrust, no warps or side-thrust are used. The model flies right-right, using a bit of left rudder under power and with the stabilizer power setting as close to 0-0 as possible for minimum drag. And throw it straight up!


1/4 sq L.E.
1/32 wire
1/16 x 1/8 hard, top only
1/16 on bottom
1/16 x 1/8 bass, T & B
1/16 vert balsa, (6) bays
1/16 bass brace, full depth
Stab ribs, 1/20
1/8 center rib
1/16 ribs
med 1/4 grain
3/32 x 3/8
Tissue wing & stab,
Silk body
1/8 x 1/2 T.E.
5 Bays = 12 1/2"
1/16 x 1/8 bass
CG Mount pylon to suit
3/32 x 1
C.S. Radial mount
(Galbreath)
1/16 med balsa, vert
Pylon ribs 1/8
1/4 x 3/8 L.E
1/8 sq hard
1/16 x 3/8 x 1 1/2
Blind nuts
Front is
1 3/16 sq
1/64 ply
Fill solid front
Seelig 1/2A 4 function
(all lines on outside)
1/8 fill betw
longerons,
grain across,
8" back
1/20 fill
1/8 plywood
Fill 1/16 sides & bottom, 9" back
Diagonals reversed on opposite sides, and


(4) 1/16 x 1/4 laminated tips
(3) 1/16 x 3/16 laminated tips
1/16 x 1/8 hard balsa, stab & tips
Wash out tips 1/16,
other panels flat
MiniPrimeTime 1/2A & F1J
Power: Galbreath C.S. .049 / .061
Areas: Wing = 292 Stab = 82
Weight: 9 oz
Design by: Ed Keck, 1/87
FLYOFF / Round 17 / Spring 1992
20°
4°
Dihedral
37"
Keep back end light
Launch straight up
Flies right-right
Glide set, approx –1/16 to –1/8
Power set, approx 0-0
1/32 rud sides, 1/16 ribs
Autorudder 1/8
Auto stab
Glide
1/32 fill to 12" from back
1/4 x 3/8 soft
1/8 sq
D/T

FLYOFF 1992 Contest Calendar for Northeastern Free-Flighters (As of Feb 1,1992)

Any sponsor of an FF meet (unrestricted entry) within 500 miles of New York please contact *FLYOFF*. We will list as many as we can.

This list is not complete. Some entries are incomplete; others may change. We regret any errors. Contact sponsor to confirm all facts.

Dates	Site	Sponsor/Meet-name	Notes/Event-guide	Info contact (Phone or send S.A.S.E.)
4/11-12	Rangitaiki, NZ	Kotuku Cup	1, F	David Ackery (64-9-60-3535), 1 Tarata St, Mt Eden, Auckland, New Zealand
4/16-20	Swan Hill, Australia	4th Pacific FF Champs	1, F,Fm,O, +(Aus)	Richard Blackam (61-54-28-3330), 7 Leslie Rd, Gisborne, Vic 3437, Australia
4/23-30	Waikerie, Australia	Australian Nationals	1, F, +(Aus)	Jon Clements (61-8-370-9579), 16 Kanyaka Rd, Aldgate, S.A. 5154, Australia
5/10	Galeville, NY	Skyscraper May Monthly	A,F,N,O,+	Dave Acton (914/628-0526), RD #3 Box 227, Mahopac, NY 10541
5/16-17	CFB Borden, Ont	Spring FAI meet	F	Alan Howard (416/338-3358), 213 Lakewood Dr, Oakville, Ont. L6K 1B3, Canada
5/16-17	Petersburg, VA	Brainbuster Spring Meet	A,F,Fm,N,O,+	A. Van Dover (804/877-2830), 112 Tillerson Dr, Newport News, VA 23602
5/23-24	Galeville, NY	Skyscraper Spring Meet	2,3, A,F,N,+	Ron Felix (215/297-8712), P.O.Box 74, Solebury, PA 18963
5/24	*Westover AFB, MA	SAM 7	O	Carmen Botticello (203/568-5733), 30 Bluefield Dr, East Hartford, CT 06098
5/30-31	Wright-Pat, OH	COFFC Spring Meet	A,O,N,+	Larry Willis (614/745-2327), 10303 Peat Moss Rd, Utica, OH 43080
6/4-7	Johnson City, TN	USIC	In	C.Slusarczyk (216/526-8613), 4200 Royalton Rd, Brecksville, OH 44141
6/6-7	CFB Borden, Ont.	Canada Spring Cup	C,F	Tony Mathews (416/322-9943), 12 Bideford, Apt. 3, Toronto, Ont M5M 4C1, Canada
6/13-14	Wright-Pat, OH	FFAMS AMA & NosGas Meet	A, N, +	Marty Richardson (513/236-4058), 7130 Claybeck Dr, Dayton, OH 45424
6/14	Durham,CT	Glastonbury M FAC	S	Ed Novak (203/238-9066), Cutlerly Ave, South Meriden, CT 06450
6/14	Galeville, NY	Skyscraper June Monthly	A,F,N,O,+	Dave Acton (see 5/10 above)
6/21-27	Westover AFB, MA	AMA Nats	2(?), A,F,Fm,S,In	AMA HQ (703/435-0750)
6/28	Westover AFB, MA	SAM 7 special events	O	George Armstead (203/633-7836), 89 Harvest Ln, Glastonbury, CT 06033
6/28	Westover AFB, MA	NFFS NosGas events	N	Alice Landy, 44 Chapin Rd, Newton Ctr, MA 02159
7/5	Galeville, NY	Skyscraper July Monthly	A,F,N,O,+	Dave Acton (see 5/10 above)
7/5-10	Lawrenceville, IL	SAM Champs	O,N	Don Sachtjen (812/384-3102), RR 5, Box 56B, Bloomfield, IN 47424
7/6-12	Wroclaw, Poland	Indoor World Champs	In	AMA HQ (703/435-0750)
7/9-12	Centralia, Ont	Canadian Nats	C,F,N,O,+	MAAC (416/844-8764), Box 9, Oakville, Ont L6J 4Z5, Canada
7/10-12	Geneseo, NY	FAC Nats	S	Lin Reichel (814/833-0314), 3301 Cindy Ln, Erie, PA 16506
7/11-12	Wright-Pat, OH	FFAMS Ann. & FAI Meet	A,F	Marty Richardson (see 6/13-14 above)
7/18-19	Galeville, NY	EFFC Champs	2,3, A,F,Fm,N,O,S,+	Bill Poythress (914/246-8850), 2 Hemlock Ct, Saugerties, NY 12477
7/18-19	CFB Borden, Ont	FAI Invitational	2, F	Dave Sugden (416/263-8316)
7/25-26	Galeville, NY	Skyscrapers Intl Challenge	2,3 F,Fm,+	Bob Langelius (914/949-6083), 32 Clinton St. White Plains, NY 10603
7/25-26	Wright-Pat, OH	CIA OT & NosGas Meet	N,O	Harry Murphy (317/642-7377), 3824 Oakwood Blvd. Anderson, IN 46011
7/26	*Westover AFB, MA	SAM 7	O,N,A	John Hodgkin (203/379-2197), Benton Ln, Winsted, CT 06098
8/8-9	Wright-Pat, OH	NOFFA FF Meet	A,N,O,+	Marge or Warren Weisenbach (216/671-8623), 4568 W 146 St, Cleveland, OH 44135
8/8-9	Fayette, NY	Empire State FF Champs	A,N,O,Fm,S,+	Bill Burris (315/536-9479), 209 Hamilton St, Penn Yan, NY 14527
8/9	Galeville, NY	Skyscraper Aug Monthly	A,F,N,O,+	Dave Acton (see 5/10 above)
8/9	Durham,CT	Glastonbury M FAC	S	Giles Belanger (203/229-9044), 63 Wood Rd, New Britain, CT 06053
8/12-14	Gananoque, Ont	SAM 86 Great Grape Gathering	O	Don Reid (613/828-2467), 7 Pinepoint Dr, Nepean, Ont, K2H 6B1, Canada
8/15-16	CFB Borden, Ont	Ontario Championships	2, C,F,Fm	Doug Rowsell (416/785-0323), 448 Cranbrooke Ave, North York, Ont M5M 1N7, Canada

8/16	Galeville, NY	Mid Hudson Modelmasters	(?)	Vance Sutton (914/679-2152)
8/16	*Westover AFB, MA	SAM 7 (contest & picnic)	O,N,A	Tom Lucas (203/875-5293), 18 Burke Rd, Rockville. CT 06066
8/22-23	Wright-Pat, OH	COFFC Fall FF Meet	A,N,O,+	Bill Hale, 334 N Remington Rd, Columbus, OH 43209
8/22-28	Lubenec, Czech.	Junior FF World Champs	F	AMA HQ (703/435-0750)
8/23	NAS Johnsville, PA....	Delaware Valley Federation.....	A,Fm,+.....	Jim Van Sant (215/757-2513), 337 Parkview Ave, Penndel, PA 19047
9/4-7	Muncie, IN	USOC	A,F,Fm,N,S	Phil Sullivan, (804/560-3351), 2335 E Tremont Ct, Richmond, VA 23225
9/5-7	Muncie, IN	SAM 57	O	Don Sachtjen (see 7/5-10 above)
9/5-7	Muncie. IN	FAC contest	S	Lin Reichel (see 7/10-12 above)
9/5-7	Lost Hills, CA	USFFC, NFFS NosGasChamps	2,3, A,F,Fm,N,O,S,+	Mike Myers, 911 Kilmary Ln, Glendale, CA 91207
9/5-7	Palm Bay, FL	Dixie Nats (AAA)	A,N,O,S,F,Fm,+	Ron Sharpton (904/767-6138)
9/5-7	CFB Borden, Ont	Canadian Team Trials	F	Peter Allmutt (416/249-0032), 2460 Weston Rd, Apt 1707, Weston, Ont M9N 2A4, Canada
9/5-6	*Westover AFB, MA	SAM 7 EC Champs	O,N,A	Ed Novak (see 6/14 above)
9/12-13	Gananoque, Ont.	Eastern Canada Open	C,F,O	Jerry McGlashan (514/695-7415), 2135 Goldfinch Av, Dorval, Que H9P 1M8, Canada
9/12-13	Durham. CT	Glastonbury M FAC	S	Giles Belanger (see 8/9 above)
9/13	Galeville, NY	Bath BAM Bash	A,F	Clay Ott, 6018 Nor-Bath Blvd, Bath, PA 18014
9/19-20	Wright-Pat, OH	CIA Ann. Regional FF Meet	A,O,N,+	Moe Whittemore, (317/861-4266), 2348S, 700W, New Palestine, IN 46163
9/20.....	Galeville, NY.....	Skyscraper Sept Monthly.....	A,F,N,O,+.....	Dave Acton (see 5/10 above)
10/3-4	Lawrenceville, IL	TCAC Ann. FF Meet	?	Bud Brown (618/943-2076), RR 4, Box 51, Lawrenceville, IL 62439
10/4 or 11	Petersburg, VA	Brainbusters Fall Meet	A,F,Fm,N,O,+	Abram Van Dover (see 5/16-17 above)
10/10-11	CFB Borden. Ont	Canada Autumn Cup	2, C.F.Fm	Alan Howard (see 5/16-17 above)
10/8-11	Lost Hills, CA	US FF Team Finals	F	AMA HQ (703/435-0750)
10/11	*Westover AFB. MA	SAM 7	O,N,A	Jack Whittles (508/255-5920), P.O.Box 1976. Oreans, MA 02653
10/17-18	Sacramento, CA	Sierra Cup	1,2(?), F, Fm	Ken Oliver (916/363-2017), 2213 El Cejo Circle, Rancho Cordova, CA 95670
10/25.....	Galeville, NY.....	Skyscraper Oct Monthly.....	A,F,N,O,+.....	Dave Acton (see 5/10 above)
1/1-3/93	Palm Bay, FL	King Orange Intl	2, A,F,Fm,O,N,S,+	Jon Ramsden (407/725-2399), 730 Badger Dr NE, Palm Bay, FL 32905

Notes: FF events only. Most meets are similar to previous year. 1 = World Cup. 2 = Americas Cup. 3=Selected contest for '93 Team. "Event Guide" codes indicate type of events or source of rules. May not include all such events (check info sources). Codes as follows:

A=AMA gas/non-gas; C=MAAC gas/non-gas; N=NosGas; O=Old-Timer; F=FAI (F1A,B,C); Fm=FAI mini (F1G,H,J); S=Scale; In=Indoor; +=Special added events.

* These Westover meets still subject to Air Force approval.

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[Continued from page 3]

work fine even if the "coils" are square—no kidding.

Another way to do it (if your pride of craftsmanship demands a perfect-looking spring) is to wind it on a mandrel made of 1/8" music wire or a nail of about that diameter. You could even use a piece of birch dowel. Just chuck the mandrel. in a lathe with the end of the .015" wire under one chuck jaw. Another way to trap the .015" wire to start the spring is to cut a slot in the outer end of the mandrel and wind the coils back toward the chuck. Then hold the far end of the spring wire with a pair of Vise-Grip pliers.

If you don't have access to a lathe, just clamp a crank-type hand drill horizontally in a bench vise and pretend it's a lathe (I used to do it this way). Now turn the lathe or hand drill with your left hand while you keep the spring wire in tension with your right hand. Make the first $1\frac{1}{2}$ to 2 turns tight, then open up the coil spacing to about 1/16" for 5-6 turns, then finish up with a couple of tight coils.

There will be some springback, which will open up the ID to about 5/32" or 3/16".

It's better to turn coils with too small a pitch than too big. Then just stretch the spring to get the desired coil spacing. This will also open up the diameter a bit.

Note that for the Hiborks, it doesn't matter if the spring is coiled left- or right-handed. Sometimes it does matter.

There are some pretty good spring-winding tools available, but I have never bothered to get one. Springmaking is really too easy!

Incidentally, round-nose pliers are one of the best investments you can make if you bend a lot of music wire.

APC Warning

by Larry Davidson, the Skyscrapers

Last year at Hamburg, NY, 9 sec into my climb with my 60" Lanzo Bomber powered by a K&B 3.25 (.19) engine turning about 22,000 rpm, the APC 8x4 (C-2) propeller shed the outer half of one blade. This immediately tore the firewall/engine/landing-gear assembly out of the fuselage. The only thing keeping the whole mess together was the 1/32" music wire shutoff, and I managed to land the wreck with pieces dangling.

Upon inspection of the APC prop, I could not detect any of the so-called "long fibers" at the break point. I then proceeded to see how difficult it would be to break the outer half of the "good" blade to test its strength. Much to my surprise, it broke very easily, and, again, no "long fibers" were visible. I feel that the prop broke more easily than a wooden prop would have.

Mike Granieri (East Coast VP of SAM) was timing the ill-fated flight and witnessed the manual breaking of the other blade. I feel that anyone using APC props *[Any props — Ed.]* should be very careful when running at high rpm, as this could cause serious injury to people as well as damage to the plane.

I am aware of several other incidents similar to mine using the same and other sizes of APC props at high rpm. I spoke to the manufacturer of the props and suggested that he put an rpm limit on the props based on tip speed to reduce the risk of injury. To my knowledge, this has not yet been done.