CENTRAL INDIANA AEROMODELLERS

INFORMER

FREE FLIGHT NEWS OF THE MIDWEST

** The Weather **

Clouds appear like rocks & towers? Earth's refreshed with frequent showers!!

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'Both Engines Out' – the *rest* of the story!

Apparently several people have been contacting Agent **Elmer Jordan**, following his *"Aviation Sounds"* (both engines quitting at altitude!) article in the Informer, a few issues back. Elmer now relates how the landing turned out:

"It was my first flying job. I was co-pilot/mechanic on a H-18 Twin Beechcraft, with fuel-injected P&W R985 engines. We were based in Rockford, Illinois. The airplane could be quickly converted from a plush executive transport, to a freighter. This was a normal operation every Friday. Our normal cargo was a load of machine tool dies both ways."

"On this particular Friday, we were making our usual round robin trip from Rockford-to-Milwaukee-to-Toronto, Canada."

"We were 10 minutes from Toronto. I switched the fuel tanks from the Auxiliaries back to the Main tanks. The captain said, "I will tell you when to switch the g..d... tanks! Switch them back to the Aux position!" We were at 800ft, and the tower changed our approach clearance to a different runway – beyond gliding distance. At that time, both engines quit simultaneously!"

"I switched tanks, turned on boost pumps, etc., and both engines started getting some power back! At 400ft both engines were running again, as we turned final to the longest runway."

"I'm now trying to start the check-list (which the captain didn't have time for). We were at 50ft when the tower said "25J – check your gear down!" I put the landing gear down and things almost returned to normal!"

"I started looking for a new job the next day! If any of you modelers are pilots – or plan to be, there are some lessons to be learned here!"



1) "Don't switch both fuel tanks at the same time. 15 minutes apart. Write it down!"
2) "Always take the time to use the check-list, and don't fly with anyone that doesn't!"
3) "If you are flying with a captain like mine was, Quit - before it's too late!" - Elmer



Trends – *a bit of sometimes-satirical banter between Agents* ***Phil Sullivan*** *and* ***Gil Morris****…*

(Gil – in Jan '04)….. I think the future is in onboard thermal sensors, or maybe more importantly, 'downer' sensors that can steer you out of troubled atmospheres. I'd like to see F1C models made the size of F1Js, so they would be easier to travel with. Travel boxes are too big. F1B size is the way to go. And I think the gear is here to stay – eventually in 1/2A, too, where it would pay off big.

My vision is of FAI teams with three to a team (specialists: mechanical guy; aerodynami-cist; and electronics expert). 5 sec engine run and 1 hour max; three rounds – each three hours long.

Timers use radio telescopes. The only model rule would be the maximum box dimensions the model would fit into. Even folding wings would seem pretty rudimentary. It will be a sport for the rich, like the Americas Cup in boating. I have no doubt.

Maybe the F1E will seem more appealing to the hobbyist. Boy, it's cold! I miss Florida already!!!

Did U know?? There'll be at least 33 days of FF activity at Muncie this season – counting the FAC meets…..

Many thanks to the *St. Louis Thermaleers* for stepping up and salvaging the long-standing ***Mid-America Champs*** – which was cancelled last season. It's now scheduled for Oct. 2-3 at Lawrenceville, IL. (Their contest flyer will be included in a summer issue of the Informer…)

Best of Everything to Agent **Austin Gunder**. He's attending *Stanford University*, doubling in Aeronautical Engineering and Athletics (he's playing tight end for 'em!). Keep us posted on your progress, man! You're going to a great school….

Artist **Beth Krush** just sent us another batch of her great FF sketches. And she fills us in on what she & hubby Joe have been doing lately: She & Joe have been teaching three classes a week in painting and drawing; working out at the "Y" to keep in shape. Joe has been quite active in working with his *Science Olympiad* kids! (By the way, Joe's a great Indoorsman!)

An Electric tip… At the next contest(s) that offer Electric FF events, be sure to check out what **Charles Groth**'s into. His models and power systems (3-phase brushless motors, of course!) are trend setters! And he tends to dominate the Muncie Electric scene…. (If you'd like to advance the art, talk to Charlie. He's worked out a winning formula!)

Modeling & Music….. As some of you know, I'm back in (music) school again. And my principal prof is really into theatrics! So I wrote a little suite – *to be played underneath the flight of an indoor model.* I figured it'd be great for audience interest (as they probably never saw one of these Indoor models in action). I was right! Jim Richmond was there for all the rehearsals, but Marianna booked them for a 'Vegas trip, the night of the concert – so I wound up flying the plane – the "soloist"….

But it'd been even better if our idiot staff would've turned off the air conditioning blowers for the 6 minutes of the performance (a reasonable Cat 1 flite!) – as each movement/ section of the suite was accurately timed out to coincide with "winding", "climbing", "bumping about", "descent", etc…. Oh, well…

But I had *many* inquiries afterwards about this kind of modeling! If we pick up even *ONE* new modeler from this, it'll be worth my 1 ½ month composition effort!! (Anyone interested in my weird model plane music? I've cut a CD of the show. But be advised - it *ain't* Country….) - MJW

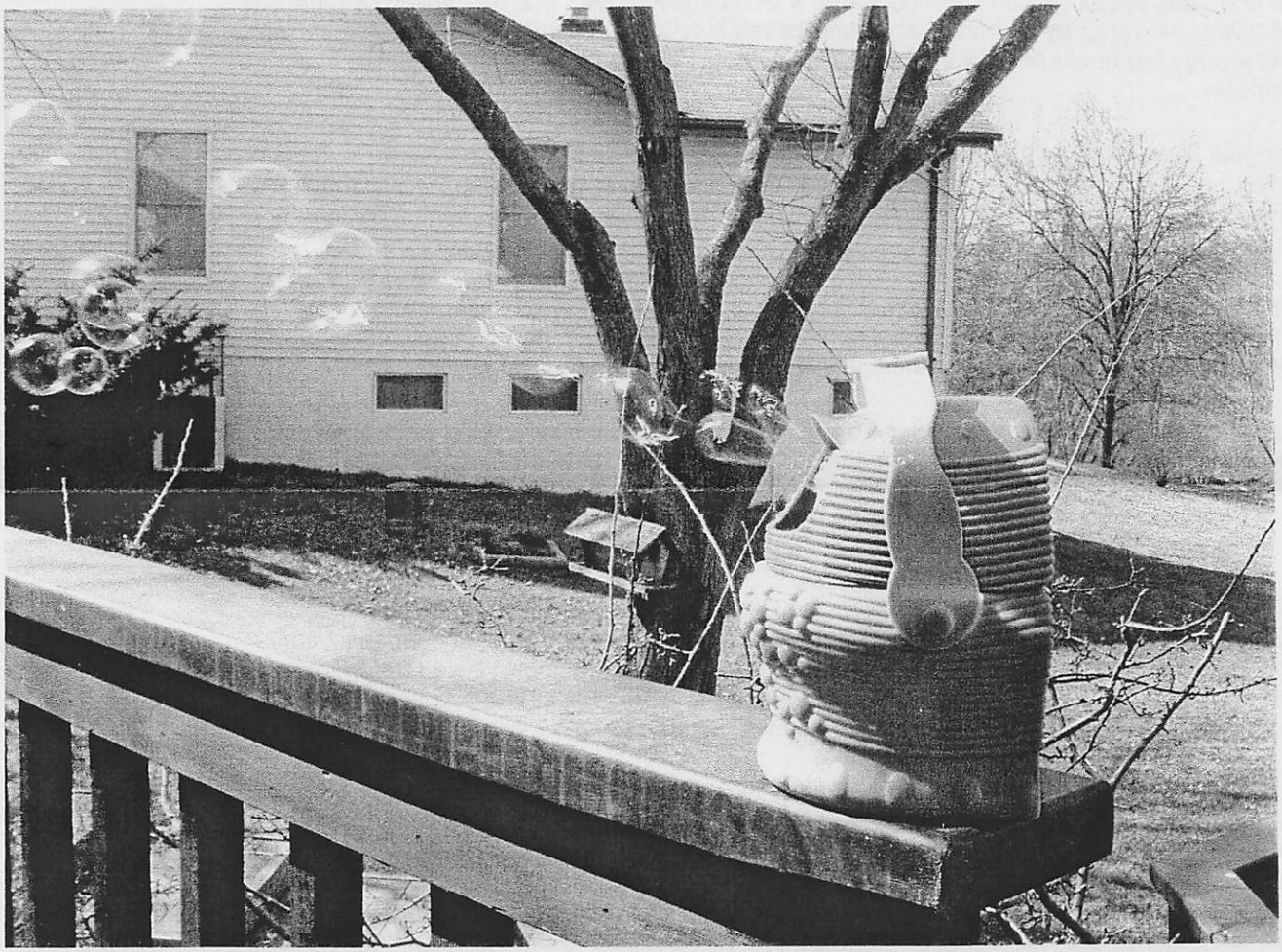
...Subconscious-Lee...



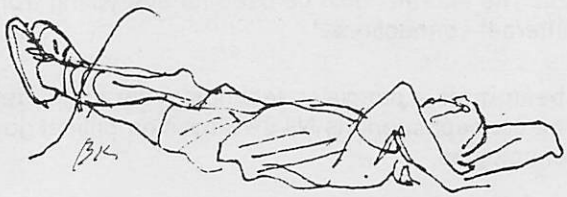
A Really Good Bubble Machine!

I found what may be the ultimate toy bubble machine. It is called "Gazillion Bubbles Bubble Machine" and is available at Wal Mart for $10. This is a brand new item and is suitable for ages 3 and up which should fit right in with us. It requires 6 AA batteries and they specifically say not to use rechargeable cells. The "no rechargeable" statement is probably to help protect them from potential safety problems with kids using the unit and stalling the motor. This could result in some pretty high currents and potential bad things could result. This should not be that much of a concern with those of us over 3. I used nicads and it truly blows gazillions or maybe 100s of bubbles. It comes apart easy for cleaning and is sorta cute, looks like something from Sesame Street. Only drawback is that the reservoir for the solution is not very big but should be OK.

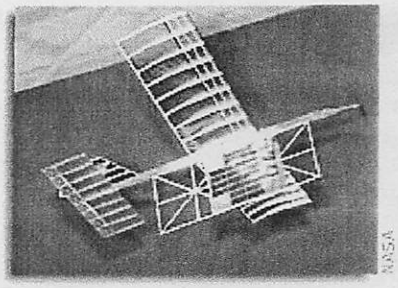
Attached is a photo of the unit in operation using Mr. Bubbles bubble solution. It is sitting on a 2X6 handrail for some size comparison.







NASA Successfully Flies First Laser-powered Aircraft



Ever since the dawn of powered flight, it has been necessary for all aircraft to carry onboard fuel - whether in the form of batteries, fuel, solar cells, or even a human "engine" - in order to stay aloft.

But a team of researchers from NASA's Marshall Space Flight Center in Huntsville, Ala., NASA's Dryden Flight Research Center at Edwards, Calif., and the University of Alabama in Huntsville is trying to change that.

They have now chalked up a major accomplishment... and a "first." The team has developed and demonstrated a small-scale aircraft that flies solely by means of propulsive power delivered by an invisible, ground-based laser. The laser tracks the aircraft in flight, directing its energy beam at specially designed photovoltaic cells carried onboard to power the plane's propeller.

"The craft could keep flying as long as the energy source, in this case the laser beam, is uninterrupted," said Robert Burdine, Marshall's laser project manager for the test. "This is the first time that we know of that a plane has been powered only by the energy of laser light. It really is a groundbreaking development for aviation."

"We feel this really was a tremendous success for the project," added David Bushman, project manager for beamed power at Dryden. "We are always trying to develop new technologies that will enable new capabilities in flight, and we think this is a step in the right direction."

The plane, with its five-foot wingspan, weighs only 11 ounces and is constructed from balsa wood, carbon fiber tubing and is covered with Mylar film, a cellophane-like material. Designed and built at Dryden, the aircraft is a one-of-a-kind, radio-controlled model airplane. A special panel of photovoltaic cells, selected and tested by team participants at the University of Alabama in Huntsville, is designed to efficiently convert the energy from the laser wavelength into electricity to power a small electric motor that spins the propeller.

The lightweight, low-speed plane was flown indoors at Marshall to prevent wind and weather from affecting the test flights. After the craft was released from a launching platform inside the building, laser beam was aimed at the airplane panels, causing the propeller to spin and propel the craft around the building, lap after lap. When the laser beam was turned off, the airplane glided to a landing.

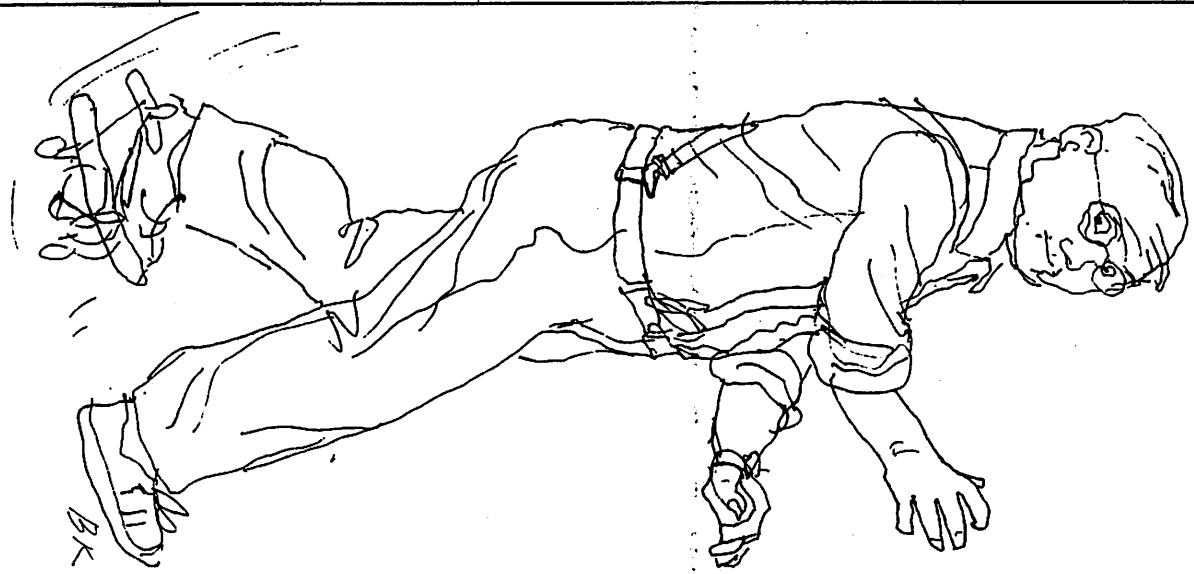
The team made a similar series of demonstration flights in 2002 at Dryden, using a theatrical searchlight as a power source. The recent flights at Marshall are the first known demonstration of an aircraft flying totally powered by a ground-based laser. The demonstration is a key step toward the capability to beam power to a plane aloft. Without the need for onboard fuel or batteries, such a plane could carry scientific or communication equipment, for instance, and stay in flight indefinitely. The concept offers potential commercial value to the remote sensing and telecommunications industries, according to Bushman.

"A telecommunications company could put transponders on an airplane and fly it over a city," Bushman said. "The aircraft could be used for everything from relaying cell phone calls to cable television or Internet connections."

Laser power beaming is a promising technology for future development of aircraft design and operations. The concept supports NASA's mission-critical goals for the development of revolutionary aerospace technologies.

CIA HI-POINT AWARDS
1974-2001

YEAR	INDOOR	CIA POWER	NON-GAS	OT GAS	OT NON-GAS	RUBBER	GLIDER	NosGas	J/S HI-PT	OP HI-PT	C&B/Thun-Jug
1974	Ted Dock	Harry Murphy	Steve Robbins	Bob Larsh					S. Robbins	H. Murphy	M. Chamberlain
1975	B. Larsh	H. Murphy	Phil Sullivan	B. Larsh					Dan Murphy	H. Murphy	M. Chamberlain
1976	B. Larsh	H. Murphy	P. Sullivan						D. Murphy	H. Murphy	M. Chamberlain
1977	B. Larsh	Richard Covalt	P. Sullivan	H. Murphy					Don Jenkins Jr	R. Covalt	H. Murphy
1978	B. Larsh	H. Murphy	P. Sullivan	Gilbert Robbins					D. Jenkins Jr	H. Murphy	Richard Covalt
1979	Bryan Fulmer	Gib Robbins	Brad Fulmer	B. Larsh					Bryan Fulmer	Gib Robbins	Dick Smith
1980	Bryan Fulmer	H. Murphy	Brad Fulmer	B. Larsh					Bryan Fulmer	H. Murphy	Gib Robbins
1981	Brad Fulmer	H. Murphy	Bryan Fulmer	M. Chamberlain					Bryan Fulmer	H. Murphy	Richard Covalt
1982	Bryan Fulmer	H. Murphy	Brad Fulmer	B. Larsh					Bryan Fulmer	H. Murphy	M. Chamberlain
1983	Bryan Fulmer	R. Covalt	M. Whittemore	H. Murphy					Bryan Fulmer	H. Murphy	Dick Smith
1984	Jim Richmond	Norm Poti	Bryan Fulmer	Ted Dock					Bryan Fulmer	Jim Richmond	Ted Dock
1985	M Whittemore	H. Murphy	Bryan Fulmer	Elmer Jordan					Tony Hutchins	Elmer Jordan	T/B Hutchins
1986	J. Richmond	Tony Hutchins	Roger Lane	E. Jordan				H. Murphy	T. Hutchins	E. Jordan	Bill Hutchins
1987		Doug Rabe	M. Richardson	E. Jordan	M. Whittemore			Gilbert Robbins	T. Chamberlain	E. Jordan	Gil Morris
1988	J. Richmond	D. Rabe	Joe MacKay	H. Murphy	Frank Heeb			E. Jordan	Mark Richmond	J. Richmond	Bob Larsh
1989	J. Richmond	D. Rabe	Bill Schlarb	E. Jordan	F. Heeb			Bill Hale	M. Richmond	Bill Hale	Guy Scott
1990	J. Richmond	Guy Scott	Larry Willis	Bob Edelstein	Roger Lane			B. Hale	M. Richmond	B. Hale	Gene Bowers
1991	Jerry Nolin	N. Poti	B. Schlarb	B. Hale	J. MacKay			E. Jordan	Nathan Dobbs	B. Hale	Guy Scott
1992		G. Morris	R. Lane	H. Murphy	L. Willis			B. Hale	Bryan Bane	Bill Hale	H. Murphy
1993		G. Morris	P. Sullivan	B. Edelstein	L. Willis			H. Murphy	B. Reuter III	H. Murphy	Bill Burgess
1994		G. Morris	Joe Mekina	H. Murphy	Joe Williams			Gene Bowers	B Reuter III	G. Bowers	Phil Sullivan
1995		N. Poti	Dan Vest	Dan Harshman	E. Konefes			Keith Fulmer	B. Reuter III	N. Poti	Elmer Jordan
1996		N. Poti	Dan Vest	Dock/Edelstein	E. Konefes			K. Fulmer	D. Vest	K. Fulmer	Joe Mekina
1997		Morris/Johannes	J. Williams	B. Edelstein	E. Konefes			B. Hale	Jason Poti	L. Willis	Sean Cochran
1998	Larry Loucka	B. Johannes	J. Williams	B. Edelstein	E. Konefes			K. Fulmer	Alex Marsh	E. Konefes	Norm Poti
1999		G. Morris	Adam Marsh	D. Harshman	E. Konefes			K. Fulmer	Adam Marsh	K. Fulmer	Steve Frazier
2000		K. Fulmer	Jon Reuter JR	T. Dock	E. Konefes			K. Fulmer	Jon Reuter JR	E. Konefes	Les Hallgarth
2001	J. Richmond	Hank Sperzel	xxxxxxxxxxxx	T. Dock	O.C. Stewart	O.C. Stewart	Tom Jones	K. Fulmer	Adam Marsh	K. Fulmer	Guy Scott
2002	xxxxxxxxxx	Jack Marsh	xxxxxxxxxxxx	E. Jordan	O.C. Stewart	J. Williams	Tom Jones	Bob Mattes	Adam Marsh	Jack Marsh	B. Hutchins



P. Sullivan
1-18-03

Results – ***1st Annual TED DOCK Memorial FAC Meet***
10/11-12/03, Muncie, IN

S/O Catapult Glider:
1. Ralph Schlarb 423
2. Phil Sullivan 335
3. Guy Scott 257

J Catapult Glider:
1. Ryan Seymour 85

S/O HLG:
1. Phil Sullivan 215
2. Bruce Barnett 101
3. Chris Gulotta 98

P-30 (S/O):
1. John Seymour 434
2. Phil Cox 333
3. Bill Jackson 323

J P-30:
1. Ryan Seymour 240

Embryo Endurance:
1. Stu Cummins 347
2. JBM Griner 264
3. Joey Butsch 260

FAC Old Time Rubber Stick:
1. Mike Zand 319
2. Stu Weckerly 319
3. Roy Stewart 186

O.T. Rubber:
1. John Seymour 360
2. Stu Cummins 356
3. Stu Weckerly 306

Golden Age Scale:
1. Mike Zand 281
2. Jim Miller 186
3. Phil Cox 185

Jimmy Allen:
1. Stu Weckerly 221
2. Randy Ryan 173
(Both lost models!)

FAC No-Cal Scale:
1. Phil Cox 286
2. Al Buchele 143
3. JBM Griner 76

FAC Dime Scale:
1. Stu Weckerly 163
2. Phil Cox 43

FAC Peanut Scale:
1. Jim Miller 151.5
2. Stu Weckerly 135.5
3. Phil Cox 121

FAC Scale:
1. Jim Miller 165.5
2. Chris Starleaf 158
3. Stu Weckerly 144.5

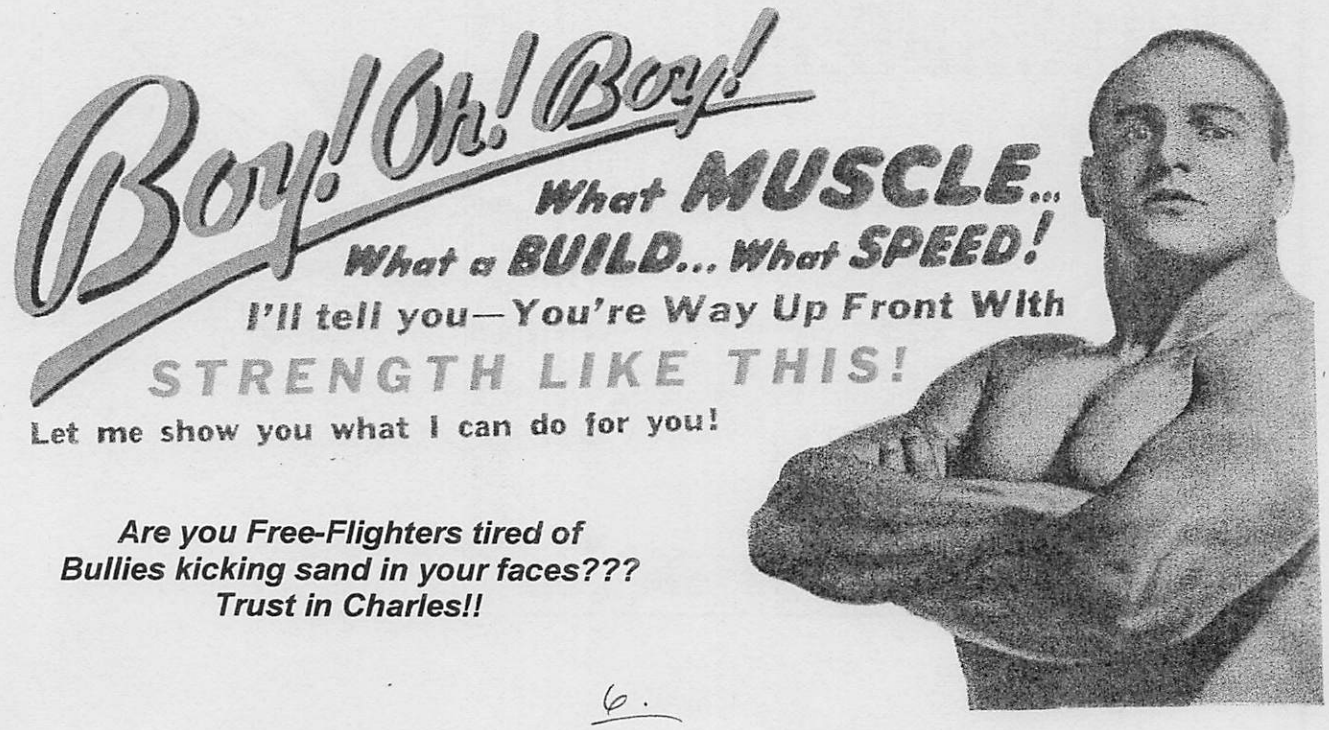
FAC Giant/Jumbo Scale:
1. Chris Starleaf 148.5
2. Jim Miller 137
3. Stu Weckerly 130.75

WWI Combat:
1. Chris Starleaf
2. Jim Miller
3. Stu Weckerly

WWII Combat:
1. Stu Weckerly
2. Chris Starleaf
3. Robert Butsch

Thompson Trophy Race:
1. Chris Starleaf
2. Mike Zand
3. Robert Butsch

Greve Race:
1. Chris Starleaf
2. Robert Butsch
3. Charley Sauter



Are you Free-Flighters tired of
Bullies kicking sand in your faces???
Trust in Charles!!

GLOW ENGINES:

1. K&B 3.5 cc, new in box, $85.00
2. K&B .15 Schneurle Port, like new in box, with spare new piston and liner, $50.00
3. K&B .40 RV Series 61, no venturi, very good condition, $30.00
4. K&B .29R (silver head), fair condition, cylinder and exhaust filed back, $30.00
5. K&B .15 Green Head, Poor condition, missing head, $10.00
6. Cox Conquest .15, new in box, $75.00
7. Cox Tee Dee .020, new in box, $60.00
8. Cox Pee Wee .020, fair condition, $10.00
9. Cox Black Widow .049, new in box, $40.00
10. Cox Baby Bee, have 4, some not complete, fair to good condition, $ 20.00 for all 4
11. Cox Tee Dee .09, looks new but no box, $45.00
12. Cox Tee Dee .010, very good condition, with wrench and spare glow head, & no tank backplate, $50.00
13. Cox Olympic .15, Dirty, has flywheel and boat shaft drive, good compression, good condition, $40.00
14. Cox Olympic .15, Dirty, no glow head, case looks like it had bad rod at one time, fair condition, $20.00
15. OS Max-III .35 with muffler, has been run but in very good condition, $60.00
16. OS Max .20, good condition, no needle valve or spray bar, $20.00
17. Veco .19, very good condition, $50.00
18. Fox .29X , no case marking, venturi opened up, set up for pressure good condition, $50.00
19. Fox .15, fair condition, $15.00
20. McCoy .098, very good condition, $35.00
21. Testor McCoy .40 Series 21, new in box $40.00
22. Enya .09-II with throttle, fair condition, $15.00
23. Forster .29 Front Rotor, no needle valve and spray bar, good condition, $30.00

DIESEL ENGINES:

1. Weber 1.5 cc, looks new and in box, $40.00
2. Mills 1.3 cc, new in box, India version, $60.00
3. Mills .75 cc, new in box, India version, $50.00
4. Taifun Tornado 2.5 cc, good condition, $30.00
5. DCLtd .049?, has attach tank, made in England, with spare std. Backplate, very good condition, $60.00
6. McCoy .049, no needle valve, good condition, $30.00
7. Drone, compression low, fair condition, $30.00
8. PAW, 2.5? cc, very good condition, $50.00

IGNITION ENGINES:

1. OK Super .60, complete, timer arm tip gone, mounting lugs drilled out a little, VG condition, $100.00
2. Atwood-Champion .60 Stovepipe, no plug, very good condition, $125.00
3. Contastor D60R, apart, missing some ignition parts, no needle valve, good condition, $40.00
4. Phantom .27?, with V2 spark plug, dirty but in good to VG condition, $110.00
5. O&R .23 front rotor, no ignition parts, needle valve, good condition, $40.00
6. O&R .23 rear intake, no tank, $75.00
7. O&R .60, 47 model, rear intake with tank and spark plug, dirty but in good to very good condition, $100.00

CO2 ENGINE:

1. OK .02 size, not complete, has case shaft, rod and piston, and cylinder, $5.00

OTHER ENGINE PARTS:

NOTE: Used spark and glow plugs and coils may or may not be functional.

1. Hornet glow head, new in package, $8.00
2. Arden glow plugs , short new in package, $8.00, used long $3.00
3. Champion V3 ignition spark plug, new in box, $15.00
4. AC 3/8" ignition spark plug, new in box, $15.00
5. Champion glow plug and spark plugs, used V2 $10.00, used VG2 $10.00, used VR2 12.00
6. Champion display? spark plugs, have loop on top of plug, new, $8.00
7. Ignition coils, very used, $1.00
8. Aero spark coils, used (2) $5.00 ea., new in box (1) $15.00
9. 3/8" glow plug, looks new, $10.00
10. Cox .15 glow head, PN 1102 (low compression), new in package $5.00
11. Cox .15 glow head, PN 2602, (high Compression), new in package $5.00
12. Cox .15 glow head, PN 1802 (TD), new in package $5.00

KITS:

1. Jetco Thermic 72, have 2, $30.00 each
2. 4K Buzzard Bombshell, $45.00
3. Blue Ridge (Hartman) Coupe, $20.00
4. Eagle Aeronca Champion, non-flying, solid fuselage, $5.00
5. Jasco Super Flash, $20.00
6. Midway .020 Playboy, no plans, $5.00
7. Yeoman Dixielander, !0.00
8. Guilow's Kiwi "A", $15.00
9. Sig Witchdoctor 800, ribs have lighten holes cut in them, $15.00
10. Superchuck HLG, $5.00

MISC:

1. Austin Air Timers, new but not in box, $8.00, new in box $15.00
2. Austin flue shut off for air timers, shut off only no clamp or disk, $2.00
3. Royal analog dial photo tachometer, new in box 5.00

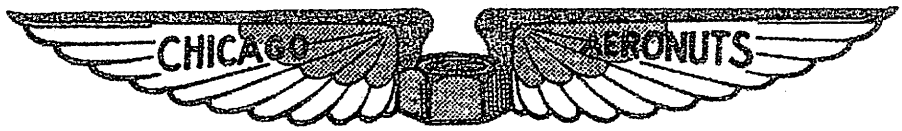
This is a list of items from the Jerry James estate. Many of the items have been snatched up by now – as this list is about 2 months old, now. But keep checkin'... For more info on these items contact: Jim Bradley@ BMP4CARBON@aol.com .

GLIDIES UP TO NOW
NATs Open Winners

	SITE	OHLG	IHLG	SITE	OCAT
2003	Muncie, IN	Tim Batiuk	Jim Buxton,	Johnson City, TN	Lee Hines
2002	"	Bob Hanford	Jim Buxton	"	Ray Mazzocco
2001	"	Lee Hines	Jim Buxton	"	Stan Buddenbohm
2000	"	Martyn Cowley	Jim Buxton	"	Lee Hines
1999	"	Roger Erridge	Bernie Boehm	"	Lee Hines
1998	"	Andrew Fagen	Bernie Boehm	"	Ralph Schlarb
1997	"	Bob Hanford	Len Surtees	"	Robert Dunham
1996	"	Bernie Boehm	Bernie Boehm	"	Bill Schlarb
1995	"	Jim Buxton	Robert Rother	"	Robert Rother
1994	"	Robert Dunham	Anthony Vaughn	"	Don Blackburn
1993	"	Bernie Boehm	Jim Buxton	"	Bill Schlarb
1992	"	Bernie Boehm	Jim Buxton	"	Bernie Boehm
1991	Lawrenceville	Bill Schlarb	Bernie Boehm	"	Ralph Schlarb
1990	" "	Al Beista	Bernie Boehm	"	Bill Schlarb
1989	" "	Bill Schlarb	Bernie Boehm	"	Ralph Schlarb
1988	" "	Bernie Boehm	Gerald Plassman,	Norfolk	
1987	Lincoln	Robert Hanford	Paul Shailor		
1986	La. Charles	Bill Hutchins	Chuck Markos		
1985	Chicopee	Jean Pailet	Dan Domina		
1984	Reno	J. Leuken	Stan Stoy		
1983	Chicopee	Larry Pelatowski	D. Domina		
1982	Lincoln	Mike Stoy	A. Vaughn		
1981	Seguin	Robert Dunham	Bernie Boehm		
1980	Dayton	Stan Stoy	Stan Stoy		
1979	Lincoln	L. Sargent	Stan Stoy		
1978	La. Charles	James lewis	Paul Shailor		
1977	Riverside	Bill Blanchard	Bill Blanchard		
1976	Springfield ,OH	Ray Harper	Bucky Servaites		
1975	La. Charles	Ron Sharpton	Paul Shailor		
1974	Lake Charles	Jim Lewis	Rudy Kluiber		
1973	Oshkosh	Dan Domina	Bucky Servaites		
1972	Glenview	P. Kosmala	Rudy Kluiber		
1971	Glenview	Dick Mathis	Rudy Kluiber		
1970	Glenview	Don Chancy	Dennis Bronco		
1969	Willow Grove	P. Klintworth	Rudy Kluiber		
1968	Olathe	Bob Larsh	D. Reed		
1967	Los Alamitos	K. Varnau	Lee Hines		
1966	Glenview	R. Adair	Robert Watson		
1965	Willow Grove	J. Kutkuhn	Larry Conover		
1964	Dallas	P. Bussell	R. Simpson		
1963	Los Alamitos	K. Happerset	Lee Hines		
1962	Glenview	F. Parker	T. Neumann		
1961	Willow Grove	W. Haught	R. Whittman		
1960	Dallas	Ron Whittman	Ron Whittman		
1959	Los Alamitos	J. Diebolt	J. Black		
1958	Glenview	T. Cook	J. Foster		
1957	Willow Grove	R. Tanner	Lee Hines		
1956	Dallas	C. Stevens	R. Hanford		
1955	Los Alamitos	E. Schmutz	S. Savage		
1954	Glenview	Larry Conover	C. Mincier		
1953	Willow Grove	E. Krause	W. Dunwoody		
1952	Los Alamitos	H. Robertson	J. Foster		
1951	Dallas	R. Brawner	C. Bushing		
1950	Dallas	D. Tune	F. Garcher		
1949	Olathe	R. Acord	M. Andrade		
1948	Olathe	D. Davis	M. Demos		
1947	Minnesota	A. G.Peterson	R. DeBatty		
1946	Wichita	A.G. Peterson	None		



P. Sullivan, 1-15-04



61st MIDWESTERN STATES CHAMPIONSHIPS, 42nd FALL OLDTIMERS and 44th FAI INVITATIONAL FREE FLIGHT CONTESTS AMERICA'S CUP AND NATIONAL CUP CONTESTS INTERNATIONAL AEROMODELING CENTER, MUNCIE INDIANA AUGUST 28-29, 2004

OLDTIMER/NOSTALGIA	FAI EVENTS	AMA/NFFS EVENTS
SATURDAY, AUG 28	SATURDAY, AUG 28	SUNDAY, AUG 29
8:00 – 4:00	By rounds as below:	8:00 - 4:00
SAM A-GAS	**F1A F1B F1C**	½-A GAS (J)(SO)
SAM B-GAS	SEVEN 1.5-HR ROUNDS	A – GAS
SAM C-GAS	RD 1 9:00 – 10:30	B – GAS
020 REPLICA	RD 2 10:00 – 11:30	C – GAS
SAM LARGE RUBBER	ETC.	D – GAS
SAM SMALL RUBBER	FLYOFFS AT 4:30 PM	AB – ELECTRIC
OT HLG/CAT GLIDER		½-A CLASSIC POWER
TWIN PUSHER	SUNDAY, AUG 29	AB – CLASSIC POWER
NOSTALGIA -1/4A	**F1G F1H F1J/F1P**	CD – CLASSIC POWER
NOSTALGIA EARLY 1/2A	FIVE 1.5-HR ROUNDS	MULVIHILL
NOSTALGIA – 1/2A	RD 1 8:00 – 9:30	MOFFETT
NOSTALGIA – A	RD 2 9:00 – 10:30	P – 30 (J)(SO)
NOSTALGIA – B	ETC	HLG (J)(SO)
NOSTALGIA - C	FLYOFFS ASAP AFTER RD 5	CAT. GLIDER (J)(SO)
NOSTALGIA RUBBER/WAKE	**ALL FAI EVENTS (JSO)**	CLASSIC TOWLINE (A-1/A-2)

AWARDS:
ENGRAVED GLASS MUGS TO FIRST PLACE WINNERS.
CERTIFICATES TO 2ND AND 3RD PLACE WINNERS.

SPECIAL AWARDS:
SR HIGH POINT ENGRAVED MUGS TO 3RD PLACE
CELIA GOLDBERG TROPHY – HIGH TIME 1/2A GAS
CARL GOLDBERG TROPHY – HIGH POINT GAS
RUDY SCHUH TROPHY – HIGH POINT RUBBER
GERALD RITZ TROPHY – HIGH POINT GLIDER

SAM ENGINES WILL BE RESTRICTED TO IGNITION OR PRE-1950 DIESELS

ENTRY FEES:
1ST event $10, additional events $5 to a maximum of $20.
A $5 premium will be charged for F1A, F1B and F1C entrants to a maximum of $25.
Junior and Senior will be charged $1 per event to a maximum $5 but no premium for F1A, F1B and F1C.

CONTEST DIRECTORS:
Chuck Markos (847-945-9225), Bob Johnson (708-449-7662)

Master Schedule

2004 Outdoor Free Flight National Championships
NFFS United States Outdoor Championships

AMA International Aeromodeling Center, Muncie, Indiana
August 2-6, 2004 (8:00 a.m. - 4:30 p.m. daily) Category III

Contest Director:
Phil Sullivan
4536 Southern Ave.
Anderson IN 46013
Tel.: (765) 640-2921
E-mail: ciasilk@aol.com

Assistant Contest Director:
Charles Sotich
3851 W. 62nd Pl.
Chicago IL 60629
Tel.: (773) 735-1353

	Monday, August 2	Tuesday, August 3	Wednesday, August 4	Thursday, August 5	Friday, August 6
AMA Gas	A Gas (O) Payload (JSO) AB Classic Gas (JSO)	D Gas (O)	C Gas (O) Cargo (JSO) CD Classic Gas (JSO)	B Gas (O) ABCD Gas (JS only) Gas Scale (JSO)	1/2A Gas (J)(S)(O) 1/2 A Classic Gas (J)(S)(O)
AMA Non-Gas	Moffett (JSO) Electric B (JSO)	Mulvihill (J)(S)(O) Electric A (JSO)	HH Cat Glider (J)(S)(O)	Dawn Unlimited (JSO) HL Glider (J)(S)(O) CO_2 - Unlimited (JSO)	P-30 (J)(S)(O) Rubber Scale (JSO) Peanut Scale (JSO)
FAI	F1A (J) (SO)	F1C (JSO) F1H (J)(SO)	F1B (JSO)	F1G (J)(SO) F1J (J)(S)(O)	USA F1K CO2 (JSO)
Nostalgia	C Nos Gas	B Nos Gas Ign Nos Gas (small & large)	A Nos Gas Early 1/2 A Nos Gas Nostalgia Rubber (non-Wakefield)	1/2 A Nos Gas	1/4 A Nos Gas Nostalgia Wakefield
Old Timer	020 Replica OT HH Cat Glider	OT HL Glider	A-B-C Cabin	A-B-C Pylon Rubber Cabin (large and small)	Rubber Stick (large and small)
NFFS special events	Super D Vit/Fixed 1000 Sq. in wing (min.) .60 -.67 cid engine	Jetex	Classic A-1 Jimmie Allen	DAKOTA Classic A-2 1/2 A Zero	Pee Wee 30 A-1 event (L'il Dip, Jetstream, Ghost)

AMA Nationals events

NFFS events

Current AMA, FAI, NFFS, FAC, and SAM rules apply.
Processing: AMA and USOC—7 a.m.-4:30 p.m. the day of the event; Scale judging afternoon before event.
FAI—30 minutes beginning one hour prior to first round..

Late registrations and entries close for FAI 4:30 p.m. day before event, and for AMA and NFFS, 12 p.m. day of event.

NFFS Banquet
Horizon Convention Center
7 p.m. Cocktails,
7:45 p.m. dinner

Junior - Senior Night Fly 7pm

Texas Timers/NFFS Cookout

5:30 p.m. at AMA Field HQ

ENTRY DEADLINE June 21, 2004 Late fee $25

NFFS Category Championship Awards:

All contestants are automatically entered for these awards.

AMA Gas Championship Events scored: F1C, 1/2 A, A, B, C, D Gas

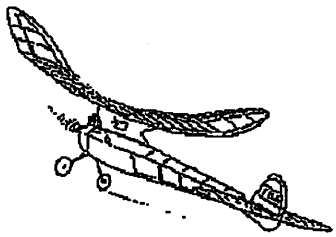
AMA Classic Gas Championship Events scored: 1/2A-Cl, AB-Cl, CD-Cl

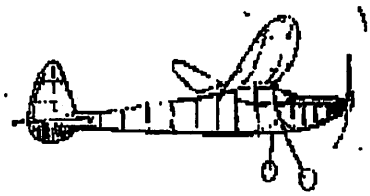
AMA Rubber Championship Events scored: Moffett, Mulvihill, F1B, F1G, P-30

Nostalgia Gas Championship Events scored: 1/4 A, 1/2 A, A, B, C Nostalgia Gas

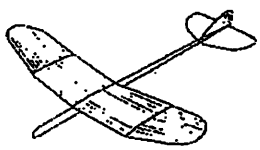
AMA Glider Championship Events scored: HL Glider, H/H Catapult Glider, F1H, F1A, Classic A-1, Classic A-2

Nostalgia Rubber Championship Events scored: Nostalgia Rubber, Nostalgia Wakefield





Northern Ohio Free Flight Association



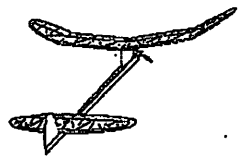
Fortieth Anniversary Free Flight Championships

AMA National Flying Site
Muncie, Indiana

August 20, 21 and 22, 2004

Friday 8:00am to 5:00pm, Saturday 8:00am to 5:00pm and Sunday 8:00am to 4:00pm local time

This is a National Cup Competition ☆



Friday's Events	Saturday's Events	Sunday's Events
CD Classic Power☆ Mulvihill☆ Nostalgia Rubber/Wake.☆ A Gas ☆ PeeWee 30 Classic A-2 Towline (NFFS Rules) C Nostalgia Gas☆	AB Classic Power☆ Hand-Held Catapult Glider ☆ ABC Old Timer Fuselage Ignition 1/2 A Nostalgia Gas☆ B Nostalgia Gas☆ Old Time Rubber-CabinStick Comb. P-30 Rubber ☆ 1/2 A Gas☆	1/2 A Classic Power☆ C Gas☆ .020 Old Timer/Nostalgia Combined ABC Old Timer Pylon Ignition Hand Launch Glider ☆ A Nostalgia Gas ☆ Moffet ☆
Starting at 5:30pm .020 Payload 1/2 A Nostalgia Payload	Hand-Held Catapult Glider (Jr)*☆ 1/2A Gas Power (Jr)*☆ 1/2A Gas Power (Sr)	Hand Launch Glider (Jr)*☆ Hand Launch Glider (Sr) P-30 Rubber (Jr)*☆
	Starting at 5:30pm (after awards) 3 Person Catapult Glider Team Challenge	*High Point Trophy* To be awarded Sunday! The more you fly the better your chances!
	Starting at 6:00pm Lil-Dip/Jetstream/Ghost towline Classic A-1 towline (NFFS Rules)	

Entrance Fees: $15.00 Flat Fee covers all Open events. All Juniors and Seniors events have $2.00 Flat Fee! *
A $.25 AMA fee is required for all non-AMA member Junior participants.

Contest Directors:

Charlie Jones
32130 Cambridge Circle
Avon Lake, Ohio 44012
(440)-933-7377

Warren Weisenbach
4568 W. 146 St.
Cleveland, Ohio 44135
(216)-671-8623

Send a SASE to one of the contest directors for a copy of the rules.

AMA National Flying site rules apply. Check in at the CD's tent for contest rules.

2004 FREE FLIGHT SCHEDULE

May 1,2	Eastern FF Championships	Higgs Farm, MD
May 15, 16	Inter-City FF Contest (May 14th, FAI Contest)	AMA Site
May 21	One Design Contest, HoneyBee, Star. X, T-Bird, Geef, Zero, R'rod 250,	AMA Site
May 22, 23	CIA OT/NOS Contest and FAI Hoosier Cup Challenge	AMA Site
May 24-25	National Cup Challenge	AMA Site
May 29, 30	Skyscraper International Challenge	Wawayanda, NY
May 26-30	USIC Indoor National Championships	Johnson City, TN
June 4,5,6	AMA Grand Event	AMA Site
June 12,13	Heart of America Spring Fling FF Contest	Kansas City, KS
June 26, 27	Michigan A. M. OT Contest	Sturgis, MI
	('The Nationals June 25 – August 6)	AMA Site
	(* CL World Championships – July 4-11)	AMA Site
July 16 – 18	FAC NATS	Geneseo
Aug 2-6	USOC/AMA National Championships	AMA Site
Aug 20-22	NOFFA FF Contest	AMA Site
Aug 27-29	Empire State Championships	Geneseo, NY
Aug 28,29	Aeronuts Midwestern States FF Championships	AMA Site
Sept 11,12	COFFC FF Contest	AMA Site
Sept 13-17	SAM CHAMPS	AMA Site
Sept 18-19	CIA 32nd Annual Regional FF Championship	AMA Site
Oct 2,3	Tri-County Aero Club FF Contest (Fall Festival	Lawrenceville, IL
Oct 9-10	2nd Annual Ted Dock Memorial FAC Contest	AMA Site
Oct 9,10	Heart of America Fall Fling FF Contest	Kansas City, KS
Oct 16,17	Skyscrapers Annual	Wawayanda, NY
Dec 29-31	King Orange International	Palm Bay, FL

The **INFORMER**

CENTRAL INDIANA AERO MODELLERS

2348S, 700W
New Palestine,
IN
46163

2002 President
Dick Covalt

Vice President
Bob Abernathy

Sec'y/Treasurer
Meredith Chamberlain

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