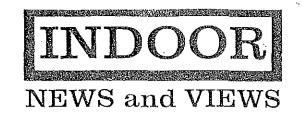
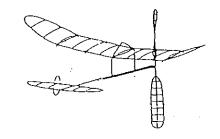
ISSUE # 127 WINTER 2011





FROM THE EDITOR'S DESK

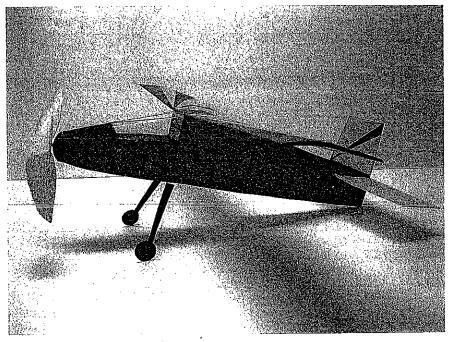
A BELATED HAPPY NEW YEAR 2011 !!!!!!

The New Year is here and it's time to make those resolutions on things we should do for ourselves, like build new and better models, go to more contests and help other people. With that piece of advice, I have a request from me to all of you. I need more input from you, our subscribers. Plans, scores from recent contests, upcoming contests, you name and if it's indoors and free flight I'll use it, send it to me. I may not use it in the latest INAV, but I'll use it sooner or later. Check the picture of the roof of the Cardington Air Shed, that's an old one, but ever current. Some of you modelers have fond memories of that site and it's of no use to us now. Enough of that stuff, let's see what we have for you in this issue. From Akihiro Danjo we have two great items. One is his record setting F1M the other is another record setter and it's a discus hand launched glider. There's a lot more thought and effort goes into these models and present more of a challenge than the older type. Try it, you'll like it. We also have a Ministick for you and this is and excellent one for low ceilings and will do well in the Postal Contest that started on the 1st of January. Hint. This model was designed by Walt Collins and has place numerous times in the Postal Contests. More hints. To round out the plans there is an A-6 by John Lenderman, this is not a beginners A-6. A lot of thought has gone into this model also, so weigh your wood and use the best to stay under weight. Next month we'll have another record setter a Limited Pennyplane by Tom Icobellis. Stay tuned.

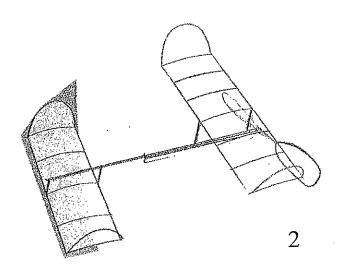
DAVID S HAGEN

I just received word that subscriber David S Hagen passed away last year in Gresham, Oregon. David's daughter Jennifer was nice enough to inform of me of this and asked if his passing could be put in the Indoor News and Views so as to inform all his friends. Any one that would like to contact Jennifer reference David's upcoming Celebration of Life may contact her at E-mail 2.jen.r.ous@gmail.com..

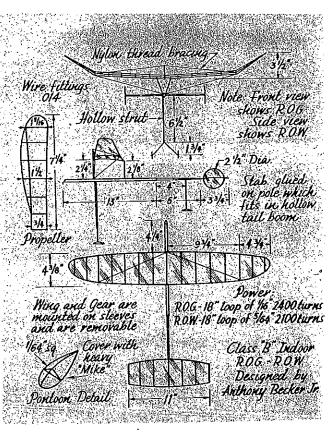
AIR CONDITIONING FOR CARDINGTON



BOSTONIAN BY PAUL GRABSKI

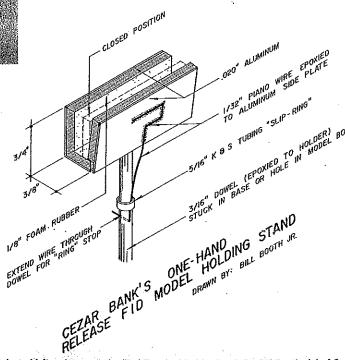


Air Trails Annual 1952



That indoor microfilm model

is "Tony" Becker's original creation which set an R.O.G. mark of 22:22.5 and a rise-off-water record nearly as high—18:51.6. And for awhile it held the stick h. l. time of 24:16!



Bob couldn't resist scooping Bud Tenny with this sketch (by Bill Booth, Jr.) of Cezar Banks' ingenious Indoor-model-holding stand. Read about it in the column.

The Magnificent Mountain Men Proudly Bring You 5th Dikes Peak Ceiling Climb

Indoor Model Airplane Contest

Sunday, February 27, 2011

AMA Sanctioned Class AA

Flying site is the historic Colorado Springs City Auditorium, downtown, corner of Weber and Kiowa Streets — 37 foot (peak) smooth ceiling

Flying Hours: 8:00 a.m. to 8:00 p.m.

Practice & fun flying during the contest is permitted but official flights always have right-of-way. *Please exercise courtesy and common sense.*

Schedule (subject to change per demand for airspace)

8:00 a.m. - 12:00 p.m.

GLIDERS ONLY

Hand Launched Glider, Unlimited Catapult Glider, Standard Catapult Glider, Absolutely no glider flying after 12:00 PM.

12:00 p.m. - 4:00 p.m.

HEAVYWEIGHTS (models heavier than 2 grams, and LIGHTWEIGHTS at your own

risk)

FAC Peanut Scale, FAC No-Cal Scale, P-24, Limited Pennyplane, Open Pennyplane/F1M combined, WWII No-Cal combat, Junior Rubber

2:00 p.m. WWII No-cal combat! All FAC rules apply plus 7" max prop diameter and minimum empty weight of 6.2 grams. Models must have correct color and markings and must have armament. Combat aircraft only. At least two rounds of flying.

5:00 p.m. Back by popular demand: pizza party in the Aud. \$5 per person all-you-can-eat does not include drinks (soda machine on site).

4:00 p.m. - 8:00 p.m.

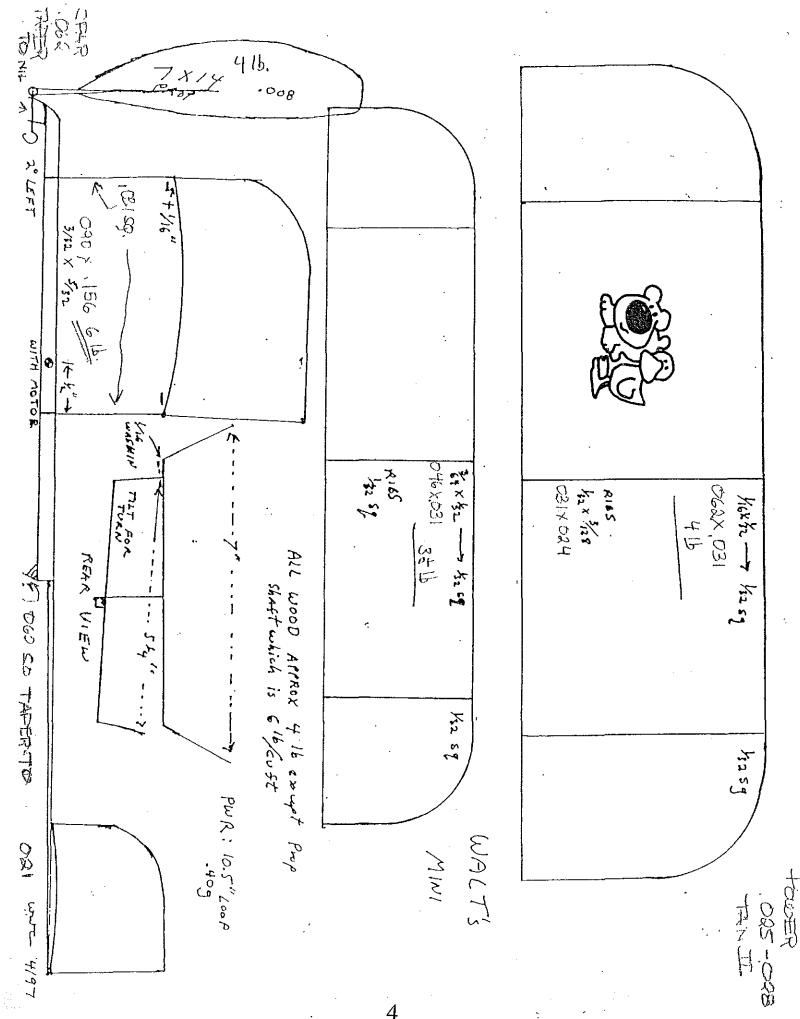
LIGHTWEIGHTS ONLY (models not more than 2 grams)

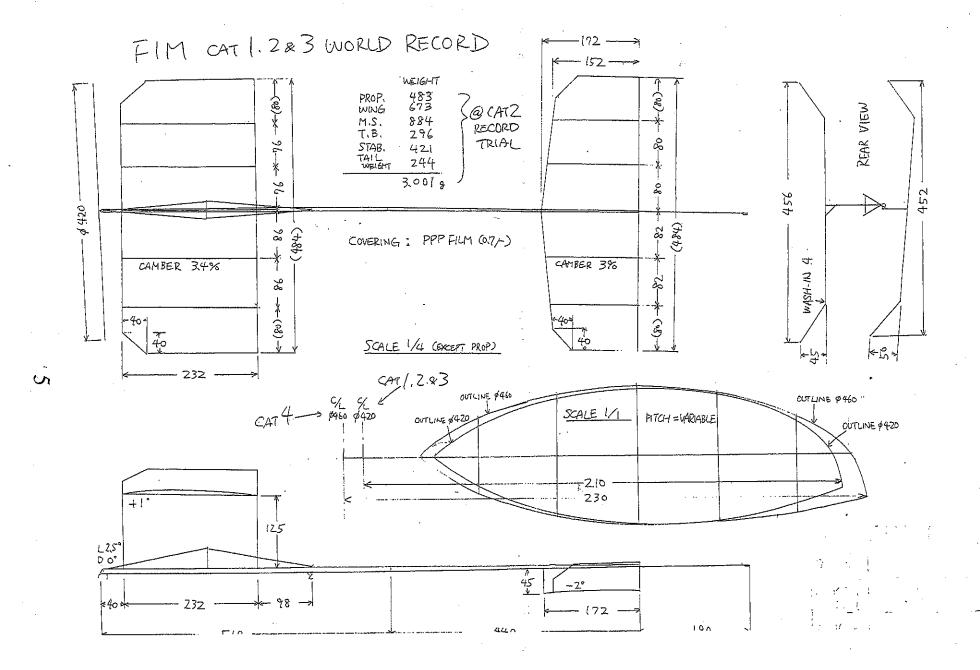
FIL, Easy B, Ministick, A-6, F1D

**Any indoor rubber powered model; Juniors only (15 and under)

The Fine Print:

- Contest director: Don DeLoach, ddeloach@comcast.net 719-964-7117.
- Link to AMA rules: http://www.mcdelairoraft.org/templates/ema_POF-files/Rulebook/indorff.pdf.
- Link to FAC rules: http://www.theplanpage.com/things/FAC%20Fules%202005.pdf.
- Link to NFFS National Cup rules: http://www.freeflight.org/competition/IndoorNationalCup/info.htm
- Entry fee: Open: \$20 unlimited events. Junior/Senior: \$5 unlimited events.
- "Colorado Cup" Grand Champ Trophy to highest scorer in up to 5 pre-selected events (at least 1 of the 5 must be a glider event, otherwise you may choose only 4 rubber events). 5-4-3-2-1 points for 1st, 2nd, 3rd, 4th, 5th place; 1 point deducted for each person fewer than 5 in an event.
- · AWARDS: contest balsa, kits, other FF supplies
- Tables and chairs provided on site.
- Nearby Hotels: Clarion Inn (1/4 mile) 719-471-8680; Econolodge (1/2 mile) 719-636-3385.
- Sorry, no RC flying.





Akihiro Danjo's Parts & Size List

FIM-4 MATERIALS

WING MAIN SPARS #5.2 .137 x2.4~1.7 TIP SPARS #5.5 1.3 x1.5~1.2

RIBS conf(2) \$#4.6 0.94×1.0 0.94×1.1

NORM(3) #4.6 0.94 × 1.8

TIPS 45.7 1,2 x 1,3

TAIL MAIN SPARS # 4.7 1.45 x 2.2 - 1.5

TIP SPARS 45.5 1.3 x 1.3

RIBS #4.6 0,94 × 1,5

TPS #50 1.0×1.3

STICK STICK 44.5 0.67 x27
BORON 1003" @ 2 x 10 chlude
1004" @ 5 x 7 o'chock

TAIL #4.6 0.35 x27~16.5 BORON .003" @ O&6 oélode 1=220

WING POSTS #9.2 1.25 x 2.5 BORON, 004" @ SIDE

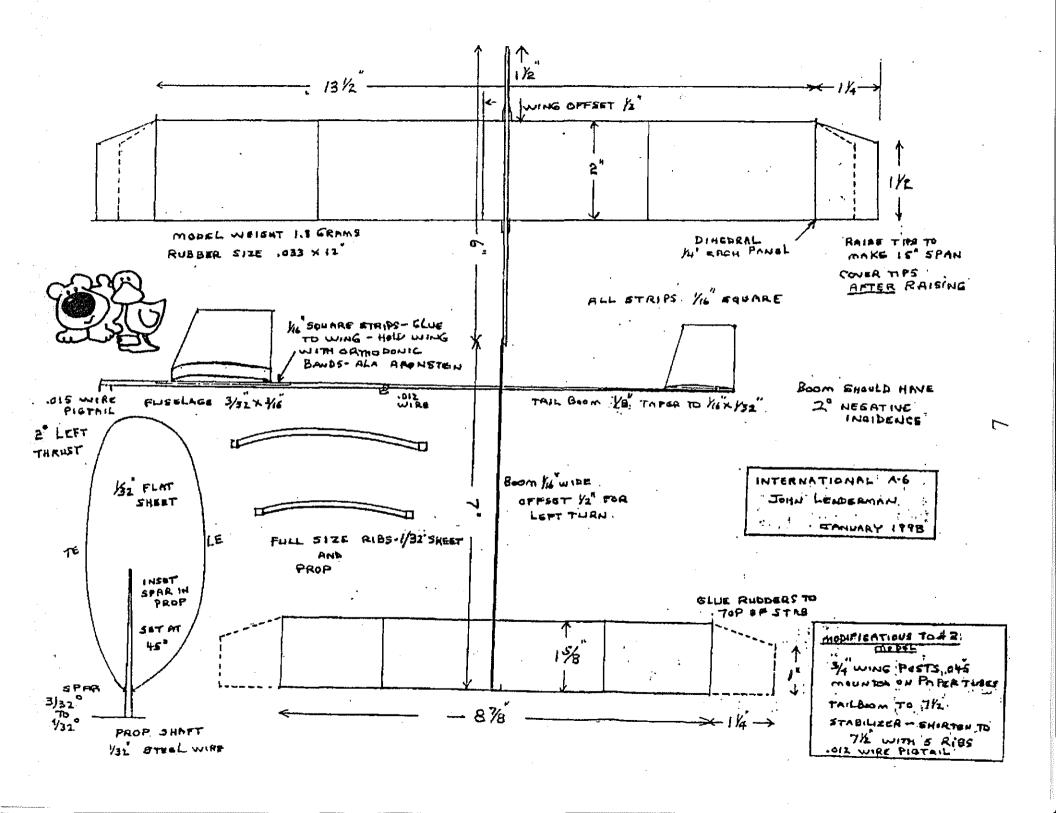
PROP SPAR #8 2.0×2,0~1.0×1.0

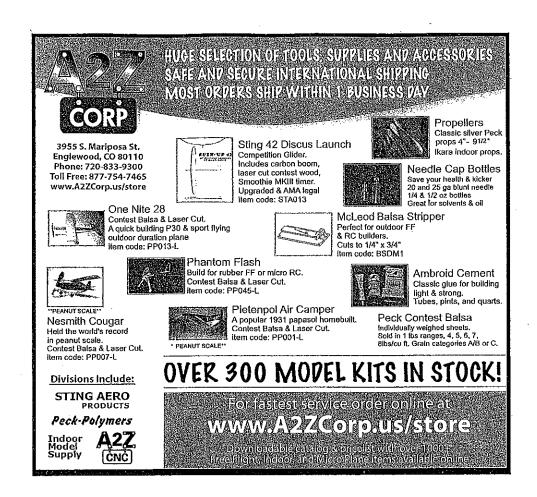
OVTLINE #7 0.8×0.8



Bill Carney

Wanted !!! Bill Carney. Bill, please contact me about missing Florida personnel from the AMA Indoor NATS in Johnson City, TN. We miss all you guys and gals Contact me at vandover@cox.net





Indoor Model Specialties High quality, Low prices

Tools from Scales to Rubber Strippers Material from Ultrafilm to Thrust Bearings Bambino competitive Science Olympiad model kit

See my brochure under Links at http://www.indoorduration.com

Ray Harlan 15 Happy Hollow Road Wayland, MA 01778 508.358.4013

Mastercard and Visa accepted

VISA



Ray wants to add this to his ad for Indoor Specialties, so here it is.

Specialty tools, including Scales, Rubber and Balsa Strippers, Tail boom forms, Dial gages, Boron glue Applicators, And Top Hat Benders.

Materials, including, Ultra and Superultra Pigtail thrust Bearings, Bracing Wire, Boron (.003 and .004), O Rings, Condenser Paper.

Buy online at www.indoorspecialties.com Also on the website: articles on building and trimming. Credit cards and PayPal accepted

NATIONAL FREE FLIGHT SOCIETY

Contact: Gene Ulm 703/981-2651 geneulm@pos.org

Not a member of NFFS--The National Free Flight Society?

Announcing a *Special* offer for new members: two years for half price!

Free flighter Roy Hanson has made a generous offer: He thinks so much of the NFFS and the its publication, the NFFS *Free Flight Digest* he is paying out of his own pocket HALF the cost of EVERY NEW member who signs up for two years. \$29 dollars gets you two years if you are 19 or older; \$9 dollars if you are younger. Non-U.S. members pay just \$37.50 for two years.

Each *Digest* issue is at least 40 pages, delivered six times a year. Each issue crammed with Free Flight how-to, plans, contest reports, photography and much more. Digest covers every aspect of Free Flight: AMA, Indoor, FAI, FAC, SAM, Nostalgia--the works.

If you are a former member who has let their membership lapse for a year or more, now is your chance to re-up for half price. To make it easy, you can even hit the following link and use your credit card.

http://www.freeflight.org/JLF/MembershipOffer.htm

Founded in 1967 to "preserve, enhance and promote the art, sport and hobby of Free Flight model aviation in all its forms", the non-profit 501(c)3 National Free Flight Society is the largest Free Flight advocacy group in the world. For more than forty years NFFS has been serving Free Flighters through various charitable programs. NFFS stages the AMA Nationals, publishes the annual NFFS Symposium Reports, and disburses tens of thousands of dollars in scholarships to deserving youth. For more information on NFFS and it programs visit www.freeflight.org.

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ISSUE # 127 WINTER 201

NEWS and VIEWS

112 TILLERSON DR NEWPORT NEWS, VA ABRAM VAN DOVER, EDITOR

FIRST CLASS



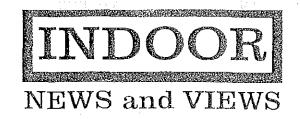
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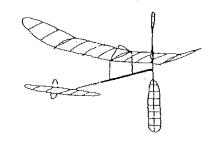
Indoor News and Views

Yes! Sign me up for 1	year @ \$15.00 U.S	S., \$19.00 Canada
2	years @ \$30,00 U	J.S., \$38.00 Canada
A	rchive CD @ \$45.	00 U.S., \$3.00 Shippi
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Address	·	
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Send a Sample Copy	to a Friend???	
Friend's Name		
Address		
City	State	Zip
Send all dues to:	Abram Van D	over :
	112 Tillerson	
	Newport Nev	
	23602	···~; ·· • •

Please make all checks out To: Abram Van Dover

ISSUE # 128 EARLY SPRING 2011





FROM THE EDITOR'S DESK

Here we go again with issue #128. We have for you plans, pictures, hints and kinks, a product review plus blurbs on just indoor stuff. On the plans we have Tom Icobellis' record setting limited Pennyplane. This is a model that any body can build and fly. The ability to set records is up to you and I. Did we build it to weight, is the prop pitch correct, CG? How about good rubber? Weather conditions and old fashion good luck? Tom can help just so much and the rest is up to us. It's a darn good model and can really help us in our learning curve. We will have the wood sizes and weight in issue 129.

Speaking of wood sizes, we have the sizes an wood weights for his record setting F1M in our last issue. Again this is one part in building a good flying model. It also gives modelers like me a starting point. If I feel the size and weight are not in my skill level, I can use bigger wood and weight, until I reach that level Thanks again to Akihiro Danjo for his F1M and Tom for the Limited Pennyplane

Next we have a new torque meter by Bill Gowens. Do you have a torque meter, do you us it? Bill sells us a torque meter that you will use, it's high tech and very accurate. I compared my Bob Wilder torque meter, mounted on my Wilder winder and they measure the torque about the same. As for me I will use this meter as I do not have one for heavy motors and need it. You can contact Bill at his E-Mail address as to price and stuff. it is a bit pricey, but a needed item if you want to do well. Here's Bill's E-Mail address wdgowen@gmail.com Be nice to Bill, he will be helping out at the Indoor Nationals by running Hand and Catapult Gliders. Thanks Bill.

To assist you in your search to do well in the indoor arena we have Rodney O'Neill's wood stripper. This is another tool needed in your shop. This one you can fabricate your self or you can purchase from Ray Harlan. His ad is in this newsletter so check with him or make your own. Rodney has some pretty good instructions an now you have a new skill while gaining a much needed tool. Buy or build, your choice

Once again we will gain a new skill by following Larry Coslick's instructions on how to set a new pitch on a plastic prop. If you fly events that allow plastic props this is a big thing as far as pitch goes. Once again you fabricate the tool and cost is low or nil. No higher education is needed, follow the instructions. Maybe we need to include a prop pitch tool in our next issue, once again, you can buy or build, it's that easy. We will have An article on prop pitch indicator for you in the next issue. Thanks Larry, we miss you at the NATS.

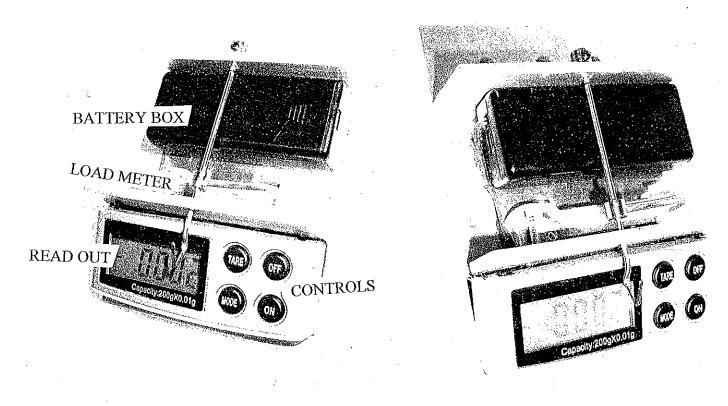
There will also be small blurbs about the USA Indoor Free Flight Nationals, the International Postal Contest for Ministick and A-6. How about the Wally Miller event and Science Olympiad, we have that and more

LOCATION OF BILL CARNEY, INDOOR FLYER.

Not only did we locate Bill Carney, but we gained three entries for our 2011 National Indoor Free Flight Contest. Bill has also volunteered to run the Science Olympiad Helicopter event. Now that's response. Many Thanks to Bill, but we say come and fly Bill. We have the event covered.

BILL GOWENS DIGITALK READOUT TORQUE METER.

Here we have pictures of Bill Gowen's fantastic digital torque meter. It has complete Instructions on the operation of this little beauty. It takes two A size batterys these are installed in the little box at the top of the instrument. The load meter is located in the center and of course the digital read out and controls are at the bottom. Not shown are the instructions, these will be in the box the torque meter is shipped to you in at no extra charge. As you can see by the pictures the read out has a nice dark back ground that makes the white numbers stand out and is quite easy to read. We forgot to add that it has a very heavy duty aluminum base with a U shaped heavy duty aluminum bracket that cradles the torque meters components. This is not a wimpy instrument that will fall apart some where down the road. You can will it to your grand children. Contact Bill wdgowen@gmail.com for info and price.

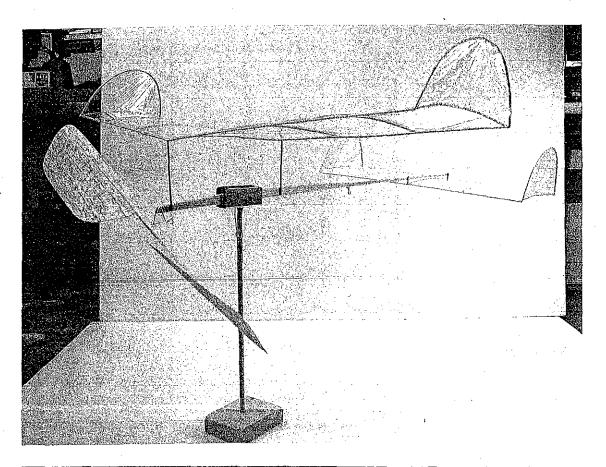


AMA & NFSS NATIONAL INDOOR FREE FLIGHT CONTEST, 25-29 MAY 2011

Indoor flying time again sports fans, Johnson City, TN is the location at the East Tennessee State University's Mini Dome. At a ceiling height of 114 feet, it's not mini to me. We will have two SO events for the school kids, Helicopter and Capacitor Electric, none for the old guys, unless you set it up yourself and fly at the same time as the kids. There are no prizes for the old guys. We also have the Wally Miller event with \$100 for first, \$50 second and 25bucks for third. The model must be built with the exact same size wood as Wally's and weigh 1.9 grams. Lotsa luck to all. Bring money as John Kagan will have a huge raffle with lotsa merchandise.

LOU YOUNG'S CROOKED LTD PENNYPLANE AND CEASAR BANK'S RUN DOWN STAND.

Paul Grabski received INAV # 125 and saw the above items and before you know it had built both and sent off the pictures to me for you. Paul says the weight came out right on the 3.1 gram mark and will tests it's flying ability come Indoor National's time in late May. Good luck Paul.



AKIHIRO DANJO'S F1M PROP WOOD SIZES AND WEIGHT

PROP OUTLINE 0.8 X 0.75 #7.0

PROP RIBS

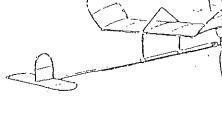
0.75 X 0.75 #6.0

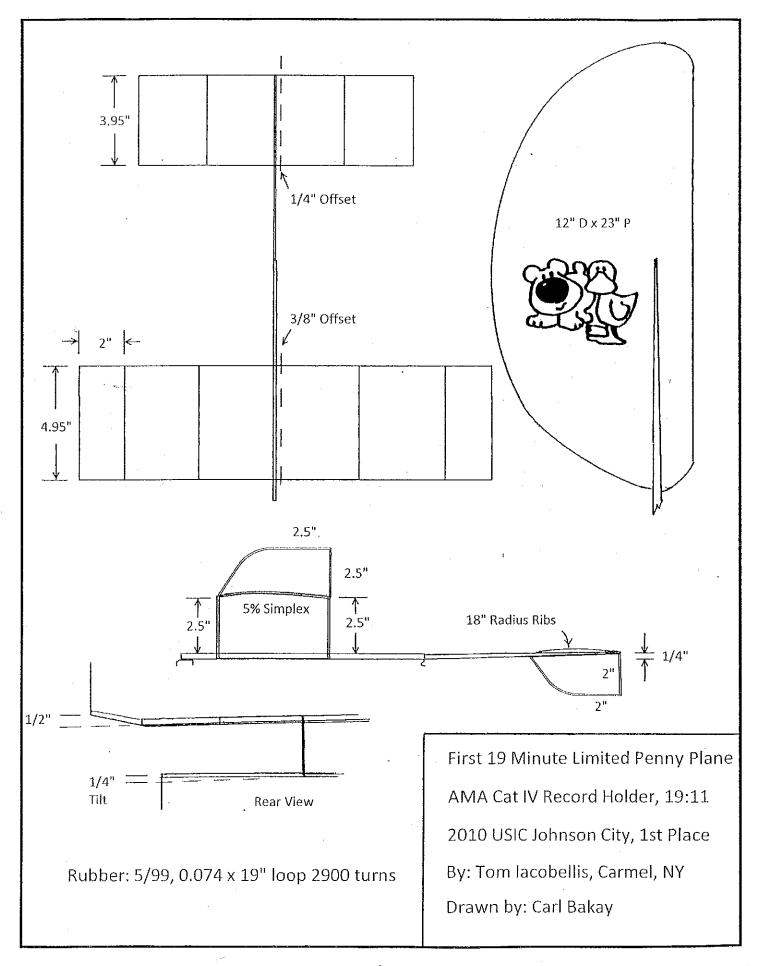
PROP SPAR

2.0 X 2.0 - 1.0 X 1.0 #8.7

THIS WAS FOR AKIHIRO'S F1M IN ISSUE # 127

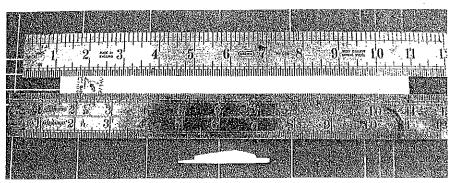






BALSA STRIPPER

When I started indoor duration flying, about 20 years ago, I cut spars, using two steel rules and homemade slip gauges. I made a set of slip gauges to suit the size of taper required for the model I

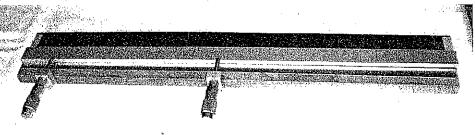


was building. This practice continued for quite a few years until I was introduced to INAV and took out a subscription. In INAV, I came across Ray Harland's advert and took a look at his web site where I saw his balsa stripper

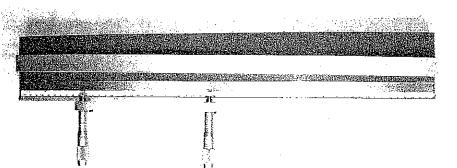
and purchased one.

This piece of equipment made stripping spars a lot easier and much more consistent. I never took to calculating the taper required, as recommended with the stripper, when it was first purchased. I resorted to moving one of the micrometers to suit the length of spar to be cut. I decided that I needed to revise my method of cutting spars, as after a few years of use, the surface of the cutting area was getting marked by the cutting blade. The marking meant that occasionally the cutting blade would

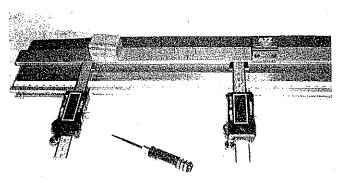
deviate from its proper path and I also was looking at ways to make adjusting the position of the micrometers on the board, easier.



After much head scratching and a long search for the bits to make it, I arrived at my version of a balsa stripper. The base of this stripper is a piece of beech wood which was machined to get a uniformly flat surface on both sides. The thickness of the base was set at 0.875 ins to ensure that the base would not bow when I stuck a piece of an art type cutting mat, to it. On the cutting mat, I then stuck a thin narrow strip of stainless steel, as per Ray's cutting board. On one edge of the base I fixed an alloy channel section to allow me to slide the micrometers around as required and I also added a paper rule (cms) from IKEA. I used this version for about 18 months until I decided I need to replace



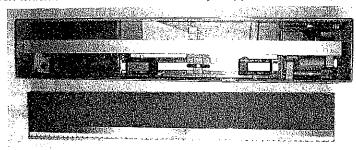
the micrometers with modified digital callipers.



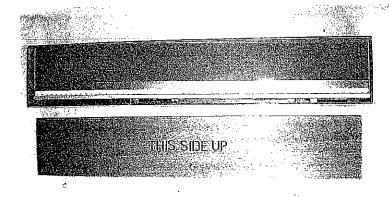
Why was the move to digital callipers necessary? Well I have had too many birthdays and I found that sometimes when adjusting the micrometers my concentration lapsed. I would start to make an adjustment and find that I could not remember the starting point for that adjustment; I had to resort to writing down each micrometer setting, for each cut I made. That was a bit of a bind, so I decided to invest in a couple of cheap digital callipers from China and modify

them, too suit my application. Now I move the callipers by the amount required and then tighten the locking screws and then make my cut. I then zero the callipers before releasing the locking screws and proceed to cut another spar.

Over the years the original stripper sat around my workshop in various dilapidated cardboard boxes. I realised that with the ability to easily dismount the micrometers / callipers, that I could make a sturdy box which would hold all the bits of my stripper. I had also purchased Tim Goldstein's spar deflection



tester and his CNC machined blade holder for use with the stripper. The box which I finally constructed holds all these bits.



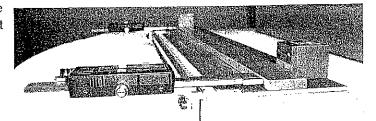
Note that the final shape of the alloy track and two of the four T section sliding blocks were made by hand using only a flat file and vertical drill. The T-section blocks used with the digital callipers were made on a milling machine, which I acquired recently. The alloy channel section started out as

a complex alloy extrusion used in some way, by shop outfitters. From this extrusion, using a hacksaw and a flat file I was able to produce the shape of channel required. I have more detailed pictures of

this project, if anyone would like to see them please contact me at rodney.oneill@talktalk.net

Now, what will I do next?

Rodney O'Neill



UNITED STATES INDOOR CHAMPIONSHIPS 2011 SCHEDULE

AT ETSU MINI-DOME IN JOHNSON CITY, TN (USA) MAY 24-29, 2011

(ASTERISKS INDICATE NON-AMA EVENTS)

TUESDAY 24 MAY 2011 TABLE SETUP AND GLIDER PRACTICE DAY

	7:30 1:30	1:15	1:31	6:00	6:01	6:30	6:31	10:00
WEDNESDAY		P-24*			 			
25 MAY 2011	IHLG	MASS						
	STD. CATAPULT	LAUNCH	INTERM	EDIATE STICK		RETRIEVAL	INTER	MEDIATE STICK
	UNLIM. CATAPULT	AT		35 CM*		lF		35 CM*
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	STRAIGHT LINE SPEED *							
	RACE TO THE ROOF *			· .		·····		
				i				
	7:30	12:30	12:31	6:00	6:01	6:30	6:31	10:00
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20 11171 2011	MODERN CIVIL P			F1D	 	iF		F1D
	BOSTONIAN MASS I	4.44	HAND L	AUNCH STICK	 	NECESSARY	HAND	LAUNCH STICK
	UNLIMITED RUB				 			
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27 MAY 2011	DIME SC		M	INISTICK	+	RETRIEVAL	<u> </u>	MINISTICK
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	FAC SC			F1L *	 	NECESSARY		F1L*
·	TOWLINE			A-ROG*	 	HEOLOGARI		A-ROG*
	TOTALINE	JLIDLIN	 	<u>-1100</u>	 		 	A-11.00
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SATURDAY	COCONUT	to a comment	1	A-6*				A-6*
28 MAY 2011	NO CAL S		PEN	INY PLANE	 	RETRIEVAL	Pr	NNY PLANE
	WWII MASS LAU			NHATTAN	 	IF.		IANHATTAN
	COCONUT MASS I			LICOPTER	<u> </u>	NECESSARY		ELICOPTER
	WALLY MILL			IITHOPTER				NITHOPTER
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	7:30	11:30	11:31	12:00	12:01	3:00	3:01	6:00
SUNDAY			1		+	7.00		ATION TO DEPART
29 MAY 2011	LIMITED PEN	INYPLANE	RF	TRIEVAL	LIM	TED PENNYPLANE	 	JILDING MUST BE
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	ELECTRIC FF		NF	CESSARY	FLE	CTRIC FF DURATION	- VELAIL	- NON 100 FM
	(EVENT		1		 	(EVENT 221)	* = NC	ON AMA EVENTS
	(2.21()		+	-	 	\		GREAT WEEK !!!!



Indoor Model Specialties High quality, Low prices

Tools from Scales to Rubber Strippers Material from Ultrafilm to Thrust Bearings Bambino competitive Science Olympiad model kit

See my brochure under Links at http://www.indoorduration.com

Ray Harlan 15 Happy Hollow Road Wayland, MA 01778 508.358.4013

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VISA



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Materials, including, Ultra and Superultra Pigtail thrust Bearings, Bracing Wire, Boron (.003 and .004), O Rings, Condenser Paper.

Buy online at www.indoorspecialties.com Also on the website: articles on building and trimining. Credit cards and PayPal accepted

USE A HEAT GUN TO CHANGE THE PARAMETERS OF YOUR PLASTIC SO PROP BLADES

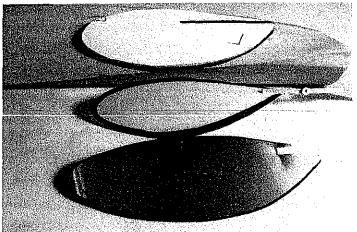
Larry Coslick

The plastic prop that was used for this project was purchased form FAI Model Supply, Part # SOP95A, 9.5" wide blade version. The blades were cut down to 3.5" long and 1.4" at its widest point. A poster paper template of the new blade shape was made and traced on the original blades, then cut out with scissors.

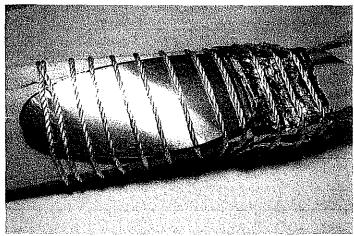
Any pitch block can be used for this procedure as long as the chord width of the block will accommodate the blade width of your prop.

To change the shape of the plastic blades a camber form is made out of 1/3" 5-5.5# A grain balsa. Trace the outline of the prop blade on the balsa and make it at least 1/8" larger on all of its edges then boil the form in a covered sauce pan for 25 minutes. Make a protective cap out of 1/16" hard balsa and strap the cap and camber form down to the pitch block. You really have to pull hard on the strapping twine to get the form to conform to the pitch block.

After the camber form has dried, sand an airfoil on the form and the 1/4" thickness along the leading and trailing edges allows for changes to the tip and hub angles so that they can be washed out if desired. The blade camber was reduced by 50%.



[1] This shows the order of placing the prop and aluminum cap on the camber form. The cap is made out of aluminum flashing material which most hardware stores carry. There are 2 alignment holes in the cap that match the pins on the camber form. Make the aluminum cap at least 3/32" larger on all of its edges than the prop blade because the heat for the 1000 watt Hanger 9 heat gun will melt any plastic that is not covered by the cap. Color was added to the prop outline and camber form for contrast. The black line on the camber form shows the groove for the plastic prop spar to set in. The placement of the aluminum cap in the picture make it look larger than it actually is.



[2] Everything is tightly tied together with 6' of twisted nylon multipurpose twine Make sure that the outside edges of the cap are laying
flat against the camber form, because a small kink in the blade could
occur if a section is raised. Place 3 plies of aluminum foil over the prop
hub to protect the plastic hub from the heat. Place the heat gun on high
and watch the heating element until it glows orange. Use a stop watch
to time the procedure, then place the nozzle 1" away from the cap and
go over the entire cap for 15-20 seconds, no more. Let the cap cool to
room temperature and the prop blade will conform to the camber form
with no spring back.

NEWPORT NEWS, VA 112 TILLERSON DR ABRAM VAN DOVER, EDITOR

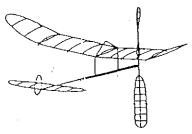
EARLY SPRING **ISSUE #128** and SMHIA

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ISSUE # 129 EARLY SUMMER 2011







FROM THE EDITOR'S DESK

Welcome to the 2011 AMA Indoor Free Flight Nationals Issue, But, first I must apologize for this late issue. As I did my planning for issue #129, I thought how could I get the Nationals in this issue. Answer? Put the issue out late. If We waited until August, the news would be old hat. Put the issue out late was the only answer. So we will mail it out on a very historic date, June 6th, D Day, the WW II invasion of Europe. Short history lesson.

So this is the 2011 Indoor F.F. NATS. We will have as many scores as we can jam into this issue, some pictures and other news. As I was the Event Director for this contest, and busy, some of the pictures do not have names, but I am sure you will get the intent of the picture. We also had a record set in A-6 by Tom Sova. Yes, A-6 is now an AMA event along with F1M. Things move fast these days.

We will also have the results of the A-6 Ministick International Postal Contest. This contest was marred by the absence of the Japanese fliers due to the earthquakes and Tsunami.

Last issue had some pictures of a balsa stripper that was sent to me in color and I printed in black and white. It did not show the stripper as good as color. If anyone would like to see the stripper in color send me a request and I will forward it to you. Your editor at work for you.

I may have wrote this up before, but I want everybody to know about this man, one Billy Landrum. He has donated \$100.00 to INAV. He feels strongly about INAV and wants to see it go forward. Thanks to Jeff Hood, Tony Pavel and Billy we are financially secure. We cannot forget Tim Goldstein's, Ray Harlan's and others donations to the raffle at the last few Nats. These people are behind the scenes and contribute much help. Thanks guys.

I have received some Indoor wood from Nick Aikman in Merry Old England and it really looks good, there is not enough room in this issue to do it justice. We will really check it out and build some indoor models from this wood not just me, but others and then get back to you. Thanks Nick!

On to the scores and such.

PS I'm still working on the expiration dates they will be posted in issue 130. It reminds me of the saying, "the hurrier I go, the behinder I get"

Indoor Model Specialties

www.indoorspecialties.com

Special tools:

Special supplies:

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Micrometer balsa strippers

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and much more

"Send me some more of the world's best thrust bearings"

Online, use credit cards or PayPal

		EZB						
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Lee, Y.K.	0	23:50	28:11				28:11	1
Harlan, Ray	0	28:06	26:14				28:06	2
Richmond, Jim	0	26:48					26:48	3
lacobellis, Tom	0	25:25	25:46				25:46	4
Zaluski, Max	0	23:30	24:52				24:52	5
Collins, Walt	0	20:34	18:34	18:12	20:07	21:47	21:47	6
Hood, Jeff	0	19:38	19:12				19:38	7
Bosman, Katie	O	16:31					16:31	8
Aronstein, David	0	12:37	12:51	13:00			13:00	9
Erbach, David	0	11:00	9:56	11:02	11:40	10:20	11:40	10
Kagan, John	0	7:40					7:40	11
Barker, John	0						DNF	
Berton, Ed	0						DNF	
O'Dell,William	0						DNF	
Romash, Rob	0						DNF	
Pavel, Tony	0						DNF	

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Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
	MINIW #	_					12:25	1 1400
Van Gorder, Walt		12:09		11:11	12:15			<u> </u>
Sova, Tom	0	10:01	5:53	12:03	10:54	9:49	12:03	2
Schutzel, Emil	0	11:51	8:22	11:26	8:51		11:51	3
Rash, Fred	0	10:18	3:13	11:45	10:34	11:38	11:45	4
Romash, Rob	0	10:19	7:50	11:37	11:15	0:26	11:37	5
Pilachowski, L	0	0:00	7:33	9:57	8:07		9:57	6
Collins, Walt	0	6:26	8:48				8:48	7
Barker, John	0	2:46	6:28	6:35	7:47		7:47	8
Singer, Len	0	7:00					7:00	9
O'Dell, John	0	5:21	4:44	3:51			5:21	10
O'Dell,William	0	3:38					3:38	11
Oleson, Doug	0						DNF	
Warmann, Bob	0				,		DNF	
Bosman, Katie	0						DNF	
lacobellis, Tom	0	·					DNF	
Erbach, David	0				1		DNF	
Loucka,Larry	. 0						DNF	

HLS

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Kagan, John	0	32:01					32:01	1
Sova, Tom	0	26:48	29:46				29:46	2
Lee, Y.K.	0	23:42	24:42	27:45			27:45	3
Harlan, Ray	O	10:45					10:45	4
Loucka,Larry	.0						DNF	
Hood, Jeff	. 0	· · · · · · · · · · · · · · · · · · ·			***		DNF	

A-ROG

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Diebolt, John	0	7:29	10:37				10:37	1
Harlan, Ray	0	3:36					3:36	2
Erbach, David	0	1:04					1:04	3
Oleson, Doug	0	*****					DNF	
Loucka,Larry	0						DNF	

Science Olympiad Electric

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Rash, Fred	0	3:03	2:29	2:55			3:03	1 .
Markos, Chuck	0	2:19	2:31				2:31	2

Z

		Pennyplan	е					
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Harlan, Ray	0	16:03	15:51	17:23			17:23	1
lacobellis, Tom	0	15:44	16:26		·		16:26	2
Hood, Jeff	0	14:03	13:53	6:54	15:23	14:50	15:23	3
Sova, Tom	0	12:24	14:57				14:57	4
Pilachowski, L	0	13:15	13:24	13:38	13:09		13:38	5
Singer, Len	0	8:08	9:40				9:40	6
Archee, Ken	0				,		DNF	
Berton, Ed	0						DNF	
Gowen, Bill	Ö						DNF	
Johnson, Tem	0						DNF	
Kagan, John	0						DNF	
Landrum, Bill	0						DNF	
Lee, Y.K.	0				:		DNF	
Loucka,Larry	0						DNF	
Pavel, Tony	0						DNF	
Richmond, Jim	0						DNF	
Wrzos, Chet	0						DNF	

		Heli						·
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Diebolt, John	0	3:36	6:18	5:41	6:39		6:39	1
Richmond, Jim		6:31					6:31	2
Collins, Walt	0	4:41	2:25	1:56	3:48		4:41	3
Erbach, David	Ö	1:56	1:49				1:56	4
Grabski, Paul	0						DNF	
Olabaki, Laui							DAIL	

0

Loucka Larry

DNF

LPP Pro/Am Name AMA# Flight 1 Flight 2 Flight 3 Flight 4 Flight 5 Best Place Soren Slater/Zaluska 13:27 12:33 13:27 13:55 13:55 0 11:56 1 John Moses/Richmond 0 13:03 12:06 13:01 11:57 12:15 13:03 2 Dan Moses/Richmond 0 7:21 11:35 11:41 12:37 11:34 12:37 3 0 Yost/Romash 11:19 11:56 12:02 12:25 11:27 12:25 4 Magda Moses/Lee 0 12:14 12:14 5 Bosman/Kagan 12:11 12:07 12:11 0 6 Zevi Aronstein/lacobellis ō 8:33 11:49 11:49 7 Lee Sumner/Gowen Ö 6:10 10:15 11:02 11:02 8 Morgan Slater/Aronstein 9:27 8:54 6:16 5:45 9:07 9:27 9.

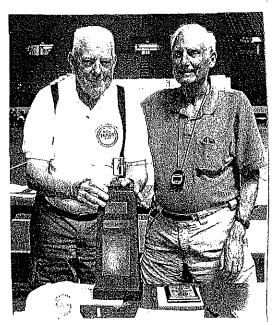
		Coconut							
Name	AMA#	Aircraft	Flight 1	Flight 2	Flight 3	Best	Place		
Aronstein, David	0	ANT 25	3:27	3:35		3:35	1		
Stevens, Robert	0	1912 Plague Torpedo	1:45			1:45	2		
Lavender, Tim	. 0	Miss Grand Rapids	1:17			1:17	3		
Oleson, Doug	0	Feisler Storch	0:24	0:31		0:31	4		
Landrum, Bill	0	Pilatus Turboporter		- "		DNF '			
Traughber, Joe	0					DNF			

		Manhattan						
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Schutzel, Emil	0	9:56					9:56	2
Aronstein, David	0	5:45	8:05	8:03			8:05	4
Erbach, David	0	2:53	2:57				2:57	6
Diebolt, John	0	2:37					2:37	.7

		Electric FF		•	_			
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Harlan, Ray	0	0:55	9:19	17:05			17:05	1
Rash, Fred	0	7:17	10:45				10:45	2



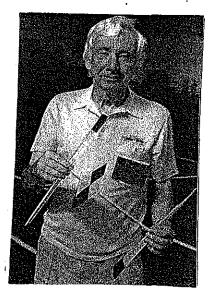
Walt Van Gorder bats the Breeze with Tom Sova New record holder in A-6



Emil Schutzel receives
The Aeronuts Perpetual
Bostonian award. Presented
By Abram Van Dover



Joe Morris and His WW I Mass Launch winner



Tavi Arongtain and his

Zevi Aronstein and his 3rd place trophy for Ornithopter



Voisin hydro gets 2nd place win for Robert Stevens

Jovial Dave Erbach And his winning Helicopter

FAC Scale

		FAC Scale											
Name	AMA#	Aircraft	Const. Det.	Color & Markings	Work.		Bonus Points		2nd Flight	3rd Flight	Flight Points	Total Points	Place
Grabski, Paul	0	Lemberger	25	20	12.0	57.0	15	62	-		61.00	133.00	1
Stevens, Robert	0	1911 Voisin Hy	25	19	12.0	56.0	30	30			30.00	116.00	2
Slater, Sorin	0	Lacey	22	18	12.0	52.0	15	38			38.00	105.00	3
Lavender, Tim	0	Lord IV	20	16	12.0	48.0	15	30			30.00	93.00	4
O'Dell,William	0	Cessna AW-10	25	18	12.0	55.0	0	25			25,00	80.00	5
Oleson, Doug	0	WeeBee	21	18	6.0	45.0	5		<u> </u>			50,00	6

٠		A-6						•
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Sova, Tom	0	9:19	9:16	9:11	9:33		9:33	1
Johnson, Tem	0	8:14	8:46	9:21	3:09		9:21	2
Gowen, Bill	0	1:58	9:09	9:11	8:20	5:02	9:11	3
Schutzel, Emil	0	8:24	7:57	8:29	8:30	8:05	8:30	4
Rash, Fred	0	6:25	5:32	7:18	6:42	3:10	7:18	5
Collins, Walt	0	5:15	5:20	6:59	7:07	6:54	7:07	6
Bosman, Katie	0	4:29	5:57	6:24	7:01		7:01	7
Grabski, Paul	0	5:01	5:48	5:54	5:16	5:02	5:54	8
Erbach, David	0	3:30	4:44	5:22	-		5:22	9
Archee, Ken	0	3:25	1:47				3:25	10
Pavel, Tony	0						DNF	
Oleson, Doug	0	 -					DNF	
Singer, Len	0		*				DNF	
Wrzos, Chet	0						DNF	

owl		

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Harlan, Ray	0	3:07	3:08	2:43	3:03	3:18	3:18	1
Diebolt, John	o	3:04	2:59	2:56	3.07	2:41	3:07	2
Collins, Walt	0	2:19	2:48	2:31	2:35	2:31	2:48	3
Markos, Chuck	0	2:34	2:07	2:20	2:23	2:34	2:34	4
Rash, Fred	0						DNF	

RTP

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Diebolt, John	0	99.00	99.00	3.29	99.00	3.35	3.29	1
Harlan, Ray	0	99.00					99.00	2
Collins, Walt	0	99.00					99.00	2
Whittles, J.L.	0	99.00					99.00	2

35cm

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Harlan, Ray	0	26:09	28:52				28:52	1
Ray, Nick	0	24:08	15:51	20:34	24:18	22:40	24:18	2
Collins, Walt	0	16:35	18:32	14:38	23:28	21:06	23:28	3
Sova, Tom	0	0:43	20:59	23:15			23:15	4
Romash, Rob	0	17:42	19:01	18:40	18:07	19:00	19:01	5
Whittles, J.L:	0	8:45	10:59	12:07			12:07	6
Wrzos, Chet	0						DNF	
lacobellis, Tom	0						DNF	
Bosman, Katie	0			-			DNF	
Loucka,Larry	0						DNF	

Int Stick

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Kagan, John	0	33:04	17:31	35:19			35:19	1
Harlan, Ray	. 0	33:49					33:49	2
Sova, Tom	0	29:53					29:53	3
Lee, Y.K.	0	0:00	27:37				27:37	4
Finn, Josh	0	0:00	0:00	13:00	5:58		13:00	5
Berton, Ed	0						DNF	
Loucka,Larry	0				***		DNF	
O'Dell,William	0						DNF	· · · · · · · · · · · · · · · · · · ·

Ornithopter

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Harlan, Ray	0	11:37	13:23	15:00			15:00	1
Diebolt, John	0	5:29	9:33		· · · · · · · · · · · · · · · · · · ·		9:33	2
Aronstein, Zevi	0	0:14	0:15				0:15	3

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		F1D									
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Best	2nd Best	Total	Place
Calliau, Larry	0	33:37	15;33	34:42				34:42	33:37	68:19	1
Kagan, John	0	9:58	13:49	31:43	32:01			32:01	31:43	63:44	2
Richmond, Jim	0	30:30	31:10	31:20				31:20	31:10	62:30	3
lacobellis, Tom	0	30:49	28:01	27:11				30:49	28:01	58:50	4
Finn, Josh	0	16:05	18:32	19:46	17:35	19:14		19:46	19:14	39:00	5
Pilachowski, L	0	13:29	15:25					15:25	13:29	28:54	6
Berton, Ed	0									DNF	
Sanborn, Brett	0									DNF	

		F1L									
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Best	2nd Best	Total	Place
Kagan, John	0	18:48	20:20	20:05	20:24			20:24	20:20	40:44	1
Richmond, Jim	0	20:03	20:14					20:14	20:03	40:17	2
Lee, Y.K.	0	18:23	8:02	12:08	19:38	19:17	20:22	20:22	19:38	40:00	3
Calliau, Larry	0	18:41	19:28					19:28	18:41	38:09	4
Pilachowski, L	0	19:01	16:01	18:17				19:01	18:17	37:18	5
Gowen, Bill	0	13:58	14:39	14:57	18:05			18:05	14:57	33:02	6
Romash, Rob	0	11:30	9:47	13:30	15:28	16:12		16:12	15:28	31:40	7
Fujikawa, Steve	0	16:07	15:26					16:07	15:26	31:33	8
Markos, Chuck	0	15:07	15:24					15:24	15:07	30:31	9
Diebolt, John	0	15:11	13:53					<u>15</u> ;11	13:53	29:04	10
Singer, Len	0	8:48	12:33	13:47				13;47	12:33	26:20	11
Landrum, Bill	, 0	11:26	12:48	11:08		- "		12:48	11:26	24:14	12
Wrzos, Chet	0	10:26	11:32					11:32	10:26	21:58	13
Collins, Walt	0	10:20	6:10					10:20	6:10	16:30	14
Loucka,Larry	0									DNF	
Kish, J.P.	0									DNF	
Sanborn, Brett	0									DNF	

		F1M									
. Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Best	2nd Best	Total	Place
Gowen, Bill	0	16:03	15:30	15:47				16:03	15:47	31:50	1
Diebolt, John	0	12:14	11:41	9:19				12:14	11:41	23:55	2
Pavel, Tony	0		-fn							DNF	
Markos, Chuck	0					-				DNF	
Landrum, Bill	0									DNF	

		Bostonia										
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	2nd Best	Flt Total	Charisma	Total	Place
Schutzel, Emil	0	4:41	4:04	5:21	5:12		5:21	5:12	10:33	1.15	12:08	1
Diebolt, John	0	4:49	4:36				4:49	4:36	9:25	1.11	10:27	2
Grabsky, Paul	0	3:11	3:53	3:32	3:58	4:00	4:00	3:58	7:58	1.15	9:10	3
Rash, Fred	0	3:48	3:48	Ī			3:48	3:48	7:36	1.10	8:22	4
lacobellis, Tom	0	2:39	3:17				3:17		5;56	1.16	6;53	5
Erbach, David	0	1:30	1:30	1:43			1:43	1:30	3:13	1.12	3:36	6
Barker, John	0	1:15					1:15		1:15	1.14	1:25	7
Sheperd, Curt	0							<u> </u>			DNF	
Oleson, Doug	0										DNF	

Dime Scale									
				1st	2nd	3rd			
Name	AMA#	Aircraft	Bonus	Flight	Flight	Flight	Score	Piace	
Diebolt, John	0 BAT	Monoplane	148	120	120	120	804	1	
Aronstein, David	0 Heat	h Parasol	141	120	120	120	783	2	
Harlan, Ray	0 Corb	in Super Ace		93	88	120	301	3	
Markos, Chuck	0 Puss			79	88	93	260	4	
Barker, John	0 Curti	s Robin		71	73	66	210	5	
Bosman, Katie	0 Puss	moth		56	66	47	169	6	
Shepherd, Curt	0 Farm	nan Stratoplane		51	48	45	144	7	
O'Dell,William	0?			31	39	40	110	8	
Grabski, Paul	0 ?			40			40	9	
Oleson, Doug	0 Russ	el Monopiane							

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	2nd Best	Total	Place
Krempetz, Kurt	0	62.7	24.6	69.8	66.1	64.0	63.0	23.4	60.7	20.8	69,8	66.1	135.9	1
Yost, John	0	60.1	46.5	45.3	47.4	48.6	54.7	58.3	57.5	54.3	60.1	58.3	118.4	2
Ray, Raiph	0	53.9	38,9	51.8	48.5	27.2	35.3	43.5	24.9	37.9	53.9	51.8	105.7	3
Eberle,Rob	0	0.0	7.6	0.2	8.2	4,3	5.7	23.3	44.6	0.0	44.6	23.3	67.9	4
Whittles, J.L.	0									,			DNF	
O'Dell, John	0			Indoor	Hand	Launch	Glide	, —-				•	DNF	
Romash, Rob	0											٠.	DNF	

"		LPP						
Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
lacobellis, Tom	0		15:48				15:48	1
Gowen, Bill	0	14:40	0:00	0:00	15:15		15:15	2
Zaluski, Max	0	14:52					14:52	3
Kagan, John	0	4:19	14:36	13:53	12:58		14:36	4
Pilachowski, L.	0	13:38	13:00	13:49	3:10	14:24	14:24	5
Van Gorder, Walt	0	14:02	13:49	13:36			-14:02	6
Lee, Y.K.	0	12:50	13:51				13:51	7
Romash, Rob	0	13:41	12:25	13:15	12:15	11:25	13:41	8
Grabski, Paul	0	12:13	1:53	12:54	13:40		13:40	9
Calliau, Larry	0	5:54	12:09	13:20			13:20	10
Sova, Tom	0	12:32	12:01				12:32	11
Diebolt, John	0	11:34	4:40	12:06	11:56	11:10	12:06	12
Fujikawa, Steve	0	12:05	10:42	10:01	11:31		12:05	13
Johnson, Tem	0	11:59					11:59	14
Collins, Walt	0	4:59	10:32	11:05	10:56	11:29	11:29	15
Bosman, Katie	0	10:52	0:00	6:07	9:03		10:52	16
O'Dell,William	0	4:35	8:29	9:56	9:33	9:00	9:56	17
Barker, John	0	4:30	5:00	6:10	9:11	9:18	9:18	18
Erbach, David	0	7:19	8:17				8:17	. 19
O'Dell, John	0	6:22	6:59	7:39	5:47	7:21	7:39	20
Kish, J.P.	0	5:14	5:29	0:00	5:15	5:07	5:29	21
Archee, Ken	0						DNF	
Berton, Ed	0						DNF	
Hood, Jeff	0						DNF	
Landrum, Bill	0						DNF	
Loucka,Larry	0						DNF	
Oleson, Doug	0						DNF	
Sanborn, Brett	0						DNF	
Warmann, Bob	0						DNF	
Wrzos, Chet	0						DNF	



David Aronstein and his AN-25 Coconut Mass Launch winner

			NoCal						
Name	AMA#	Aircraft	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Best	Place
Warmann, Bob	0		5:26	5:50	0:35	5:10		5:50	1
Aronstein, David	0		5:10	5:40	4:15	5:35		5:40	2
Collins, Walt	0		4:29	4:38	5:19	4:50	5:19	5:19	3
Diebolt, John	0		4:39	4:17				4:39	4
Grabski, Paul	0		1:06	2:00	3:50	2:31	4:18	4:18	5
Warren, J.Tim	0		0:49	0:45	0:32	0:39	1:23	1:23	6
Oleson, Doug	0			,	, . ,		1.1	DNF	
Loucka Larry	0		1					DNF	

Standard Catapult

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	2nd Best	Total	Place
Ray, Ralph	0	80.1	83.7	0.0	6.1	69.1	72.6	65.8	65.0	1.0	83.7	80.1	163,8	1]
Krempetz, Kurt	0	61.0	10.2	79.3	79.7	79.8	77.5	37.6	20.9	69.3	79.8	79.7	159.5	2
Yost, John	0	51.8	58.4	70.6	70.5						70.6	70.5	141.1	3
Warmann, Bob	Ö	6.1	67.5	10.9	70.2	70.4	15.4	67.7	69.9	66.4	70.4	70.2	140.6	4
Johnson, Tem	0	68.5	68.7								68.7	68.5	137.2	5
Markos, Chuck	0	60.7	59.3	58.6	53.2	63,7	65,7	63.4	46,5	68.0	68.0	65.7	133.7	6
Kagan, John	0	58.0	58.0	60.0	64.0	34.0	55.0				64,0	60.0	124.0	7
Romash, Rob	0	40.2	44.9	47.1	39.9	33.9	51.5	52.3	49.2	57.2	57,2	52.3	109,5	8
O'Dell,William	0	38.9	31.0	39.7	46.6	49.6	50.2	46.9	55.5	50.4	55,5	50.4	105.9	9
Stoddard, Chris	0	46.6	50.1	40.7	51.7	37.8	49.8	41.7	41.4		51.7	50.1	101.8	10
Warren, J.Tim	0	33.6	46.4	48.2	50.5	47.1	32.4	44.3	47.9	45.3	50.5	48.2	98.7	11
Whittles, J.L.	0	27.4	24.4	26.7	32.1	27.3					32.1	27.4	59.5	12
O'Dell, John	0	25.3	28.0	27.0	26.0	26.7	24.3	23.7	23.6	25.2	28.0	27.0	55.0	13
Batte, Tom	0												DNF	

Unl. Cat

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	2nd Best	Total	Place
Ray, Raiph	0	97.6	24.3	91.1	96.9	89.5		L			97.6	96.9	194.5	1
Krempetz, Kurt	0	91.3	0.0	95.5	93.0	90.0	95.0	90,5	93.9	85.3	95.5	95.0	190.5	2
Batte, Tom	0	66.0	74.0								74.0	66.0	140.0	3
Johnson, Tem	0	68.2	68.1				·				68.2	68,1	136.3	4
Romash, Rob	0	_			I. "								DNF	

Unl. Speed

Name	AMA#	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Flight 7	Flight 8	Flight 9	Best	Place.
Collins, Walt	0	7.7	7.5	7.8	6.9						6.9	1
Yost, John	0	99.0	7.4	99.0	99.0						7.4	2
Blevins, Doyle	0	99.0	9.7	9.8	99.0	99.0	8.8				8.8	3
Diebolt, John	0	99.0	99.0	99.0	10.4	_	_				10.4	4

P-24 Mass Launch

1 -24 Mass Eathor											
Name	AMA#	Time	Place								
Johnson, Tem	0	0:01	1								

FINAL RESULTS FOR THE 2011 INTERNATIONAL POSTAL MINISTICK AND A-6 CONTEST

Once again we have the scores for our International Indoor postal Contest for Ministick and A-6 Models. This time we have some glad tidings and some not so glad tidings The bad news first. For the very first time we have had no Japanese entries. It took and earthquake and a tsunami to stop our Japanese flyers. We all feel bad that due to Mother Nature these dedicated flyers could not participate and we do miss them and wish them well in the future. More bad news, the Brainbusters will not host the Postal Contest for 2012. It is with much regret to inform you of this and we sincerely hope some club or group will pick it up. Please feel free to call or E-Mail me if you desire to do so. I have names and addresses for a lot of contestants that may want to participate. You do not have to buy a lot of high priced fuel to join in.

Now the good news: Check the name of the third place contestant in USA Ministick. Keenan Boudon, He is a Junior! When you look in the complete roster you will see Nathan Boudon also a Junior and as you may have guessed by now, Keenan's brother. Also from the same club as the Boudon brothers our Grand Champion, Mike Altig is from the same club, the Williamette Model Club. We also want to congratulate Urlan Wannap for his First Place win in International Ministick. Also Kudos and stuff go to our own Walt Collins for his win in USA Ministick. His last flight on the last day we could fly won the day for him.

If there is anything I can say to end this chapter of our modeling life is, it is, we must support and nature our Juniors. We are the educators, role models and heroes, yes heroes as was Lindberg, Yeager and Ernie Pyle was to our generation.

OVERALL CHAMPION

MIKE ALTIG USA

MINISTICK INTERNATIONAL CLASS.

MINISTICK USA CLASS

FIRST PLACE URLAN WANNOP UNITED KINGDOM

FIRST PLACE WALT COLLINS
SECOND PLACE MIKE ALTIG
THIRD PLACE KEENAN BOUDON

COMBINED A-6 CLASS

FIRST PLACE	GARY HODSON	USA
SECOND PLACE	TEM JOHNSON	USA
THIRD PLACE	JAMES ALDERSON	USA

International 2011 Postal A-6 Scores and Other Data

	l l			
NAME	FLT. SCORE (SEC)	CORR. FACTOR	'CEILING HEIGHT	CLUB
Hodson, Gary	423	454.62	27.6 ft	HOAFFC
Johnson,Tem	419	450.62	27.6 ft	HOAFFC
Alderson James	374	400.01	36.0 ft	Williamette M. C.
Altig, Michael	354	380.01	36.0 ft	Williamette M. C.
Berray, Ed	350	376.01	36.0 ft	Williamette M. C.
Borland, Chris	274	309.35	22.0 ft	Sierra Eagles
Kopriva, Tom	279	305.01	36.0 ft	Williamette MC
Collins, Walt	255	288.35	25.0 ft	Brainbusters
Farrell, Walt	259	259.00	75.0 ft	Maxecuters
Acton Dave	204	237.35	25.0 ft	Skyscrapers
Beaton, Aubrey	185	218,35	25.0 ft	Scotia FF
Alderson, Jim	191	217.01	36.0 ft	Williamette M. C.
Tagliafico Andrew	187	213.01	36.0 ft	Williamette MC
Singer, Len	161	205.56	,8.2 ft [∤] :	Brainbusters
George Gilbert	146	172.01	∮36.0 ft ¹¹	Williamette M. C.
Plassman, Jerry	123	167.56	√8.2 ft _#	Brainbusters
Escalante, Mike	158	158.00	75.0 ft	Maxecuters
Van Dover, Abram	109	153.56	8.2 ft	Brainbusters
Kershner, Dave	62	106.56	, 8.2 ft	Brainbusters
→				

International 2011 Postal Ministick Scores and Other Data

NAME Collins, Walt	FLT SCORE (SEC) 448	CORR. FACTOR 940.32	CEILING HEIGHT 8.2 ft	CLUB Brainbusters
Altig, Mike	349	493.96	36.0 ft	Williamette MC
Wannap, Urlan	300	473.80	25.0 ft	Scotia FF
Boudon, Keenan	327	462.81	36.0 ft	Williamette MC
Van Dover, Abram	177	371.51	8.2 ft	Brainbusters
Gilbert, George	255	360.91	36.0 ft	Williamette M.C.
Kershner, Dave	146	306.44	8.2 ft	Brainbusters
Bauman, Scott	149	251.35	19.8 ft	Fla Indoor FF
Svenson, Rolf	146	246.29	19.8 ft	Fla Indoor FF
Boudon, Nathan	172	243.44	36.0 ft	Williamette MC
Berray, Ed	149	210.89	36.0 ft	Williamette MC

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ISSUE # 129

FIRST CLASS



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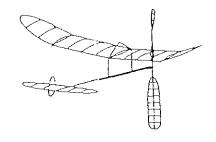
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ISSUE # 130 SUMMER 2011





FROM THE EDITOR'S DESK

Greetings and Salutations,

For Issue #130 we have some new things for you, Some great photos by Jeff Hood and Tim Warren. We wanted to go color, but that would raise the cost by \$350 plus. Maybe next year for the Indoor Nationals. First we have full size plans for Tom Vallee's Bandersnap What inspired the Bandersnap plans? Nick Aikman, the famous English balsa wood cutter and salesman, more on him and other things as above. To really whet your appetite, Issue # 131 will have a slew of articles and plans by none other than one great indoor builder and flyer, Larry Coslick. John Kagan has promised us the whole ball of wax on the FAI F1D finals at Lakehurst on Labor Day. we will hold the press's for that info. Thank you John. In addition to all this we have expiration dates on some of your newsletter. "One small step" I'm not a computer expert and it was pencil, eraser and yellow paper, but I think I got it. If you have any questions on your expiration date contact me at VanDover@cox.net

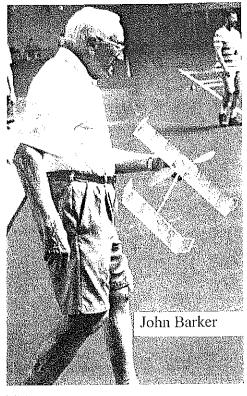
Let's talk about the Bandersnap. I've always wanted to build that model and never got around to it, sound familiar? Well anyway, Nick Aikman, famous balsa wood guy sent me a bunch of his famous light weight indoor balsa wood, the Bandersnap hit me right twixt the eyeballs. I can build Tom's model and at the same time check out Nicks wood. Flying friend Walt Collins also got some of Nick's wood and is planning on building an indoor model also and will report on his findings. Almost all the Brainbusters got a chance to look and feel the wood and pronounced it out of this world wood except for the drool marks. Thank you Nick and we will have a good report for you, next issue. By the way, I've always wanted to build Frank Zaics Miss New Yorker and will do that as soon as the Bandersnap is done. Not with Nick's wood though.

How about Jeff Hood and Tim Warren's pictures. Tim had about 8 pictures, all good and we printed most of them.

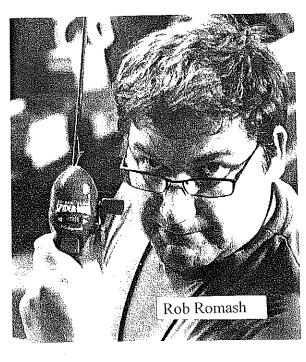
Jeff took over 1100 and I still haven't seen all of them. We did look at quite a few and will print a bunch for this issue. They will be in black and white. Color costs 79 cents and black and white 9 cents, Throughout the year we will print some more of Jeff's pictures and may use color. Let's see what our readers response is, after all it's their money. By the way if you have some pictures, send them in and we'll squeeze them in also. While we are on that subject we need feed back from you and you out there should send me some stuff, no guarantee we'll print it right away, but it should get printed. Thank you, some of my stuff is, ugh!!

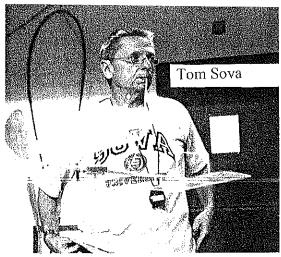
Next and last is some good stuff by Larry Coslick. Larry is quite famous for his Hobby Shopper, but let me tell you this guy has done more for EZ-B, Pennyplane and Ministick then anybody. If you are not using at least one of Larry's techniques, you ai'nt living. I could talk about Larry all day, but I'll let him show you the way to better indor rubber flying, next issue.

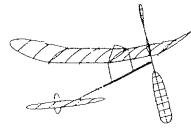
One last thing, all you Larry Loucka fans. Larry is alive and well. It was his daughter that he had to take to the hospital just as he was getting ready to leave for Johnson City, like 30 minutes. We hope she is well and our prayers go out for her. Look forward to your being there next year, Larry. I told you I was not an English Major.

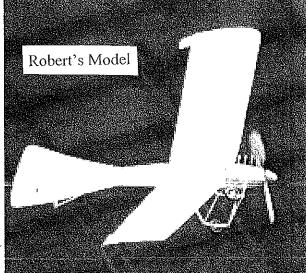


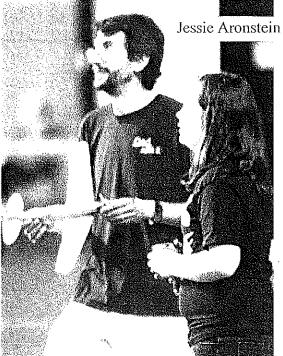


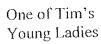




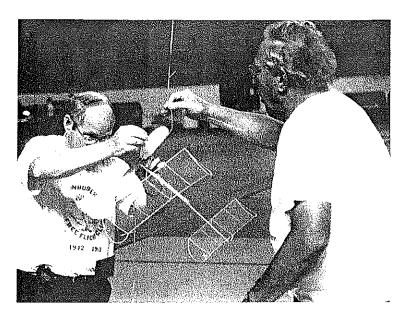




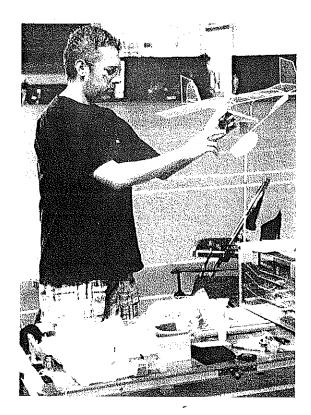






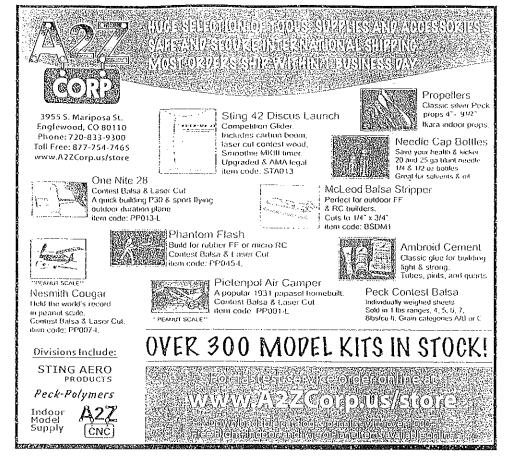


Walt Collins & John Diebolt



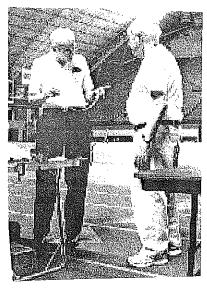
John Kagan

TIM GOLDSTEIN'S INDOOR STUFF

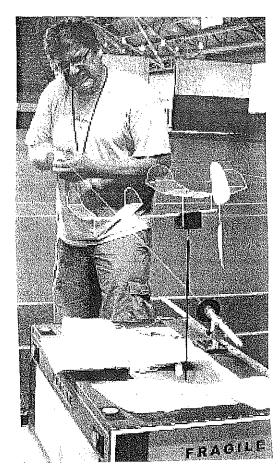




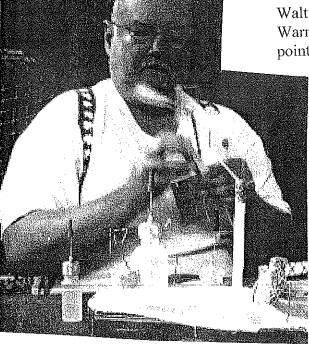
Tom Sova gets off a perfect launch



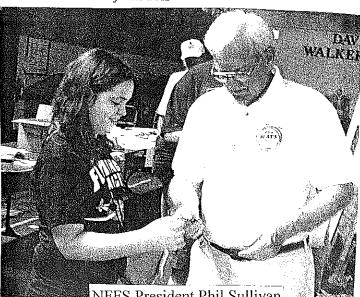
Walt Van Gorder and Bob Warmann discuss the finer points of indoor



Winding his Ministick is Rob Romash. One potato, Two potato.



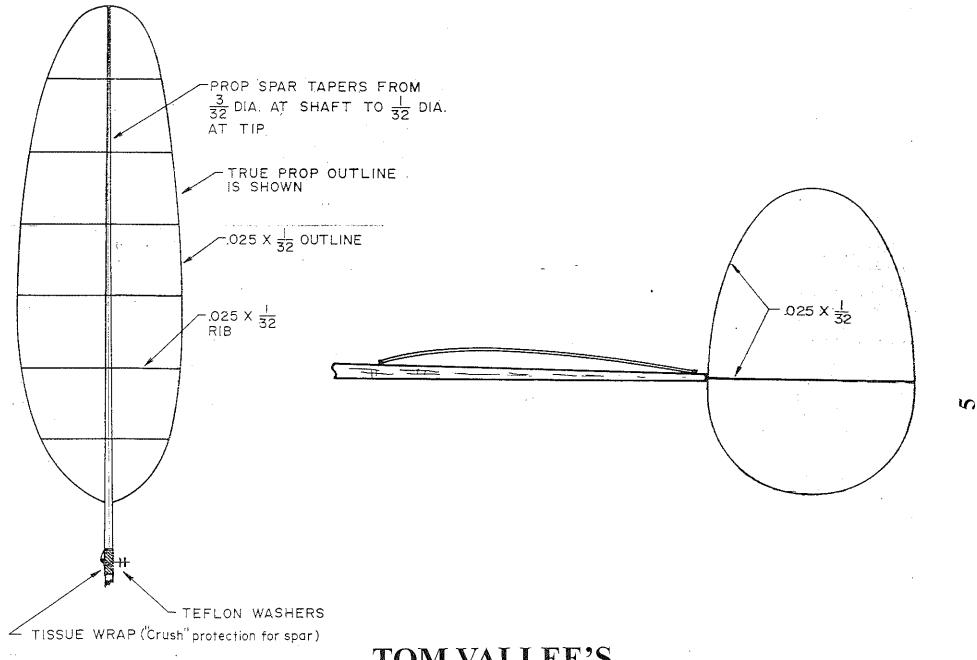
John O'Dell repairs one of his many models



NFFS President Phil Sullivan presents award to one of Tim Lavender's Kids

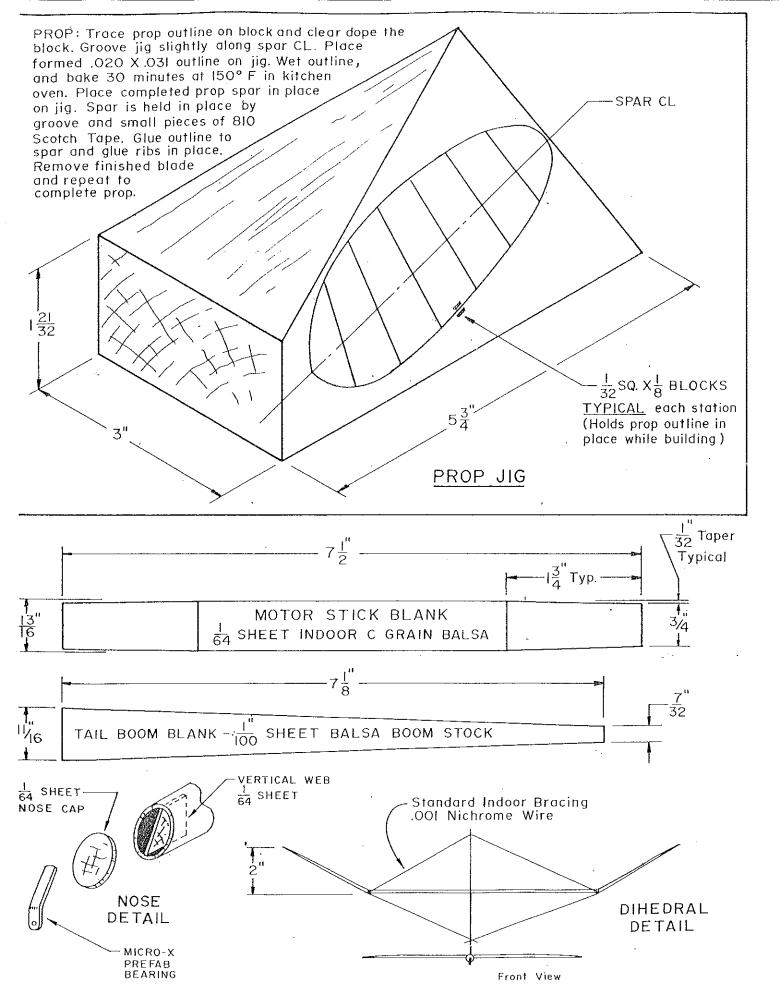


Emil Schutzel preps his Manhattan Cabin

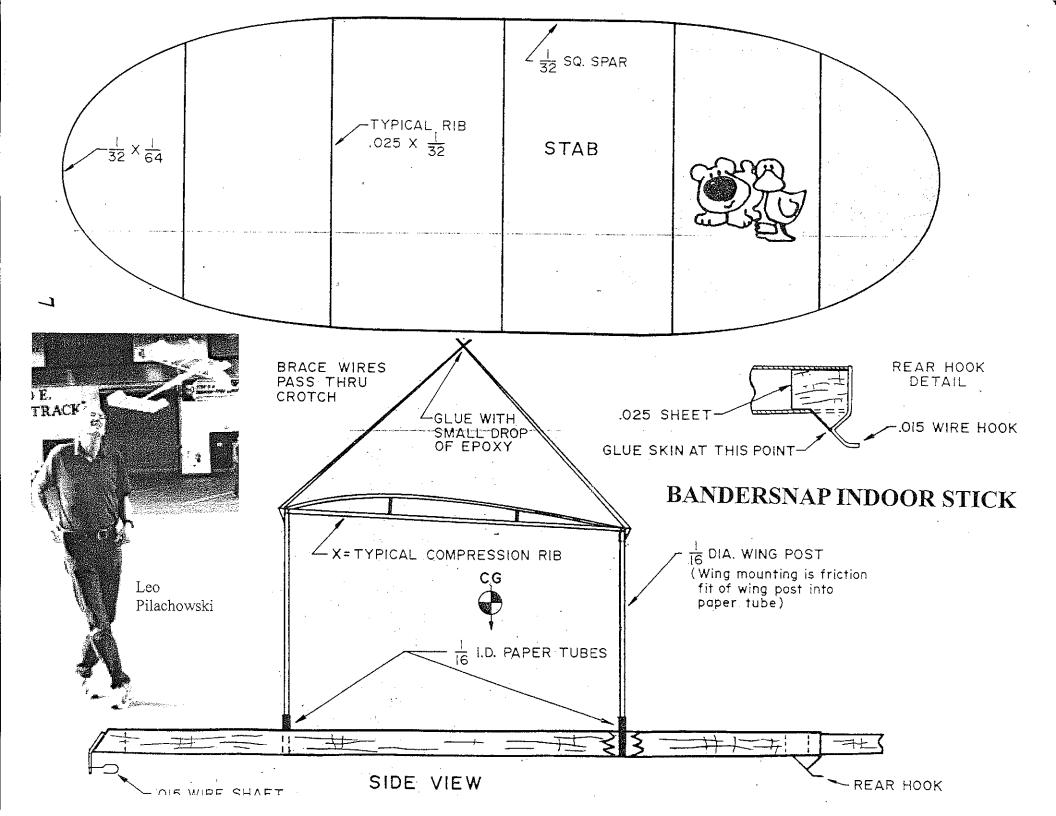


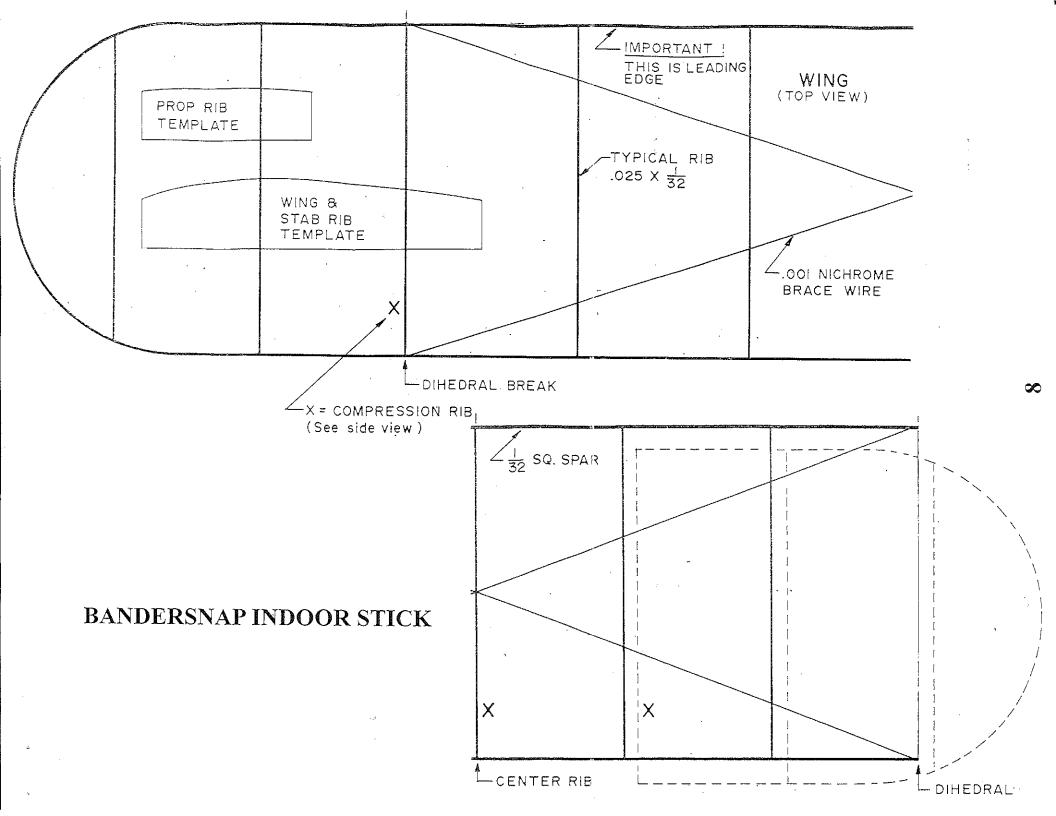
TOM VALLEE'S

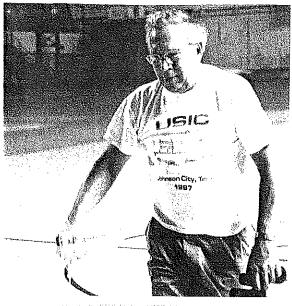
BANDERSNAP INDOOR STICK



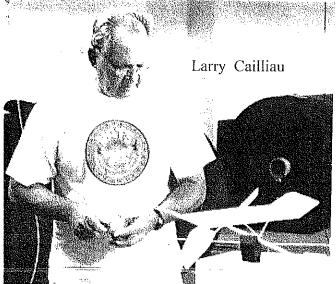
BANDERSNAP 6

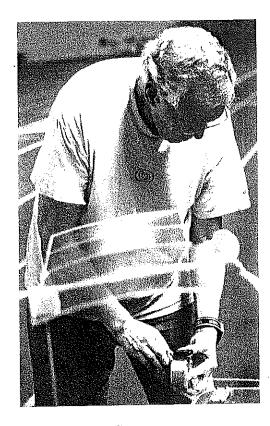






John Diebolt





Bill Gowen

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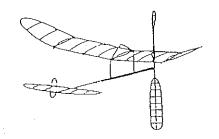
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ISSUE # 131 EARLY FALL 2011



NEWS and VIEWS



FROM THE EDITOR'S DESK

He e we go again folks, issue # 131 and a bunch of good stuff for your Indoor News And Views eyeballs to view. We have Larry Coslick on deck, Jeff Hood and his F1D final team selection rankings and scores. Some welcome products by Dennis Tyson. Pictures by Walt Collins and Van Dover and a stolen picture from the latest NFFS Symposium. (Larry Coslick). At Lakehurst, we signed up four new subscribers and received 4 more in either Email or snail mail orders, we'll try to add their names to the end of this blurb.

First I would like to talk about the fliers at Lakehurst. The site is about 160 feet high and covered with girders all over the place. This is normal. What is not normal, is the crowded floor. Don't get me wrong, it's still a great place to fly. However you have to give the flyers a lot of credit to do as well as they do with these handicaps. What handicaps? Trying to steer amongst those big storage shelves when the model is at the 160 foot level.. Steering on the 12 foot high partial aircraft deck and then running down the stairs to get back to steering on the cluttered floor. There is some drift, however we learn to live with it and it's part of the game. Some of you readers know all about this situation, but not all our readers do. The scores that you see on Jeff's score sheet are scores that these flyers really bust their butt to get. That's my Army talk coming out. Thanks to all the people that came out to participate and watch, help and do a little flying on the side.

Check and see what Dennis Tyson has for sale and contact him if you need or just like his products. Those wood strippers by Steve Gardner are works of art and work. What can I say about the glue bottles, George White says it all. My thoughts, I have ten of them. Proceeds go to offset the cost of Parker and Spencer Tyson going overseas to the World Champs' It's in Serbia next year.

Next issue will have pictures of a new winder that utilizes chain drive instead of gears, chain drive? This item will soon go into production and go on public sale. We will also try to have an up to date ad for Shorty's Basement, they now carry some ARF Pennyplanes, plus a lot of FAC scale stuff, they fly indoors to you know. I think we need one of John Blair's Dime scale models in our next issue. This is your newsletter, feel free to write in what you would like to see

NEW AND RENEWAL SUBSCRIBERS.

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ILLINOIS

ART HOLTZMAN

FLORIDA

PS We still got some room to thank people for the F1D finals Walt Collins, Horace Hagen Jeff Hood, Ray Harlan Victor Cagliano, Dennis Tyson, Y. T. Kang and Al Mkitarian

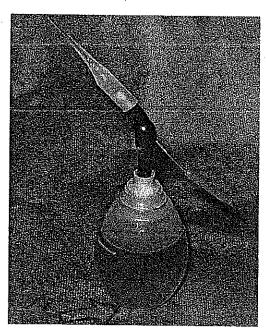
A VERY HANDY GLUE BOTTLE

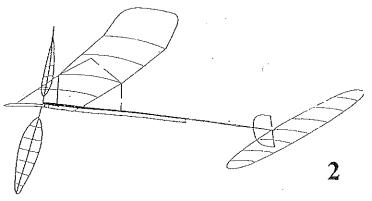
By George White

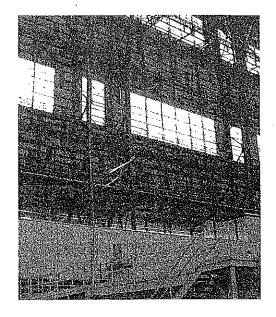
When I was at Johnson City for the indoor NATS this past summer I was introduced to a very nice little bottle for applying glue without having more of it on the joint than was necessary.

For almost all my building needs I've used a combination of 50% duco and 50% acetone, and applied it by using the small bottles available from A2Z folks in Colorado. They have two sizes of needle tops. I use the large one for glue and the small one for keeping a bit of acetone available for correcting the many mistakes I make. The down side of using A2Z's bottles is that I have to keep a short piece of .012" wire handy to unclog the needle when glue dries on the tip.

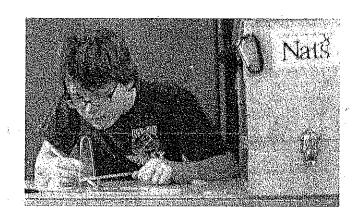
The bottle I found at Johnson City is made by Dennis Tyson and his son Parker, who sold them to raise money for Parker to go to the F1D world champs. As you can see from the photo, the bottle has its own unclogging wire built in. At \$10 that's a nice deal. Check out http://www.indoornews.com/, or send them an email at ddtyson@peoplepc.com







F1D CLIMBING (WC)



PARKER TYSON JR F1D TEAM MEMBER (WC)



(WC)= Walt Collins

NICK RAY #3 MAN ON (WC) OPEN F1D TEAM

JUNIOR 2011 F1D TEAM SELECTION

First	50m 20s	P Tyson											
Second	37m 30s	lcaobellis											
Miles -													
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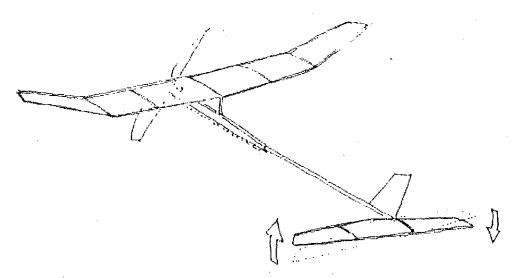
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INDOOR HINTS AND KINKS BY LARRY COSLICK

Automatic stab tilt. If your model won't turn left under a full launch torque, try this

Drawing by Steve Gardner



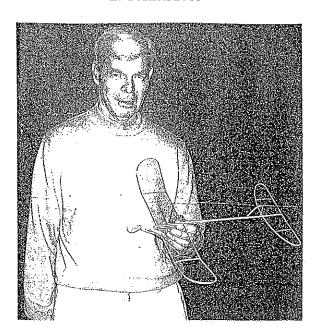
I stumbled on this automatic stab tilt phenomena by accident after completing a small 15 square inch model called 1/2A stick, designed by Wally Miller, the originator of the EZB. VP props are legal on this model.

The model would fly fine on a fixed pitch prop but it didn't like the high pitch of my 8" VP prop. I used a lot of off set in the wing along with wash in and it would start its climb OK, and then crab off to the right and stall. Nothing seemed to work to correct this problem, including lowering the pitch.

I decided to offset the stab and did it in a big way, 70% of the stab on the inboard side. The offset stab looked weird and drooped enough to cause quite a bit of negative stab tilt at rest.

The model is small enough to fly in a large room and when I flew it with the same torque and high pitch that caused the stall in the first place, the model continued its climb without any hint of a stall. The boom and stab twist under the flight load to give a left turn. I tried the stab offset on one of my F1L's that didn't want to turn with a launch torque over .2 inch ounces and it solved that problem. I didn't have to change the boom on either model and tweaking the boom can be used to change the circle.

L. Coslick 2010



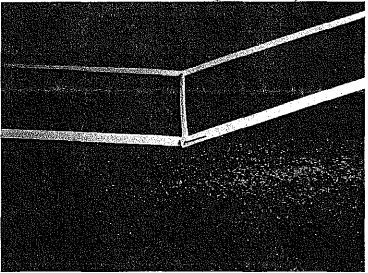
LARRY COSLICK INDUCTED INTO THE NATIONAL FREE FLIGHT SOCIETY HALL OF FAME. INDOOR NEWS AND VIEWS SALUTES LARRY COSLICK.
WELL DONE!

Folding F1D Wing tips

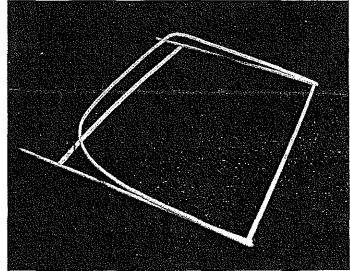
Whether you want to take along an extra wing or there is some question about your model box fitting into the overhead compartment of an airliner, here is a way to travel with a much shorter box. The wing tips are folded over so each wing will fit into a slot or box .7X8.5X15" or shorter depending on the length of the center panel. To use this system the dihedral joints are overlapped and it will be necessary to adjust the chord at those joints to comply with the 20 CM chord rule.

After the wing tips have been unfolded, the wing can be stored in one of those cardboard under the bed boxes. The box lies flat when disassembled and can easy be placed in with clothing or support gear and reassembled in a few minutes

When building the wing, overlap each tip spar at the dihedral joint (.075") and glue it to the main spar with Aliphatic (carpenters glue) and glue the ribs in with Acetate glue. There's no reason to worry about the film or rib coming loose near the dihedral breaks when using Aliphatic to glue the dihedral joints. After the wing is removed from the building board, make up four wire hinges using short pieces of .005 music wire bend at ninety degrees. (Four hinges weigh less than .006 gram) Make a piercing tool using a .4" long piece of .005" music wire mounted in a small dowel and it's best to sharpen the piercing end. Back up the spar with a pair of tweezers or hold the dihedral rib with your fingers. Take the tool and pierce a hole in the center of the joint and rotate the tool while pushing it through the spar, glue joint and into the dihedral rib. Insert the hinge and line up the end so that it is parallel with the spar.

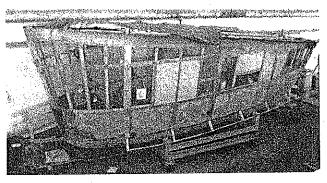


.005mw hinge to prevent wing tip from separating from main spar

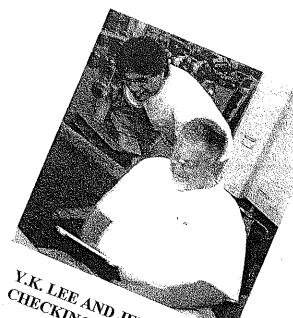


Wing tip in the folded position

After the wing is covered, lay out a small piece of plastic or waxed paper under each dihedral joint. Lay a small weight on the spars near the inside of each dihedral rib and one right in front of each dihedral joint and puddle two drops of water under each joint. Lift up each tip about 1/2" with a piece of balsa so that the tip outline will bow near the dihedral break. It will take several minutes for the glue to soften and it might be necessary to place a little extra water on the joints, but don't flood them. Slowly lift the tip a little more to place added pressure to each joint. The tip outline could break at the dihedral joint if you get in a hurry. The glue will usually let go all at once and the wing tip can be folded over on the center panel. Leave the small weights in front of each dihedral joint until the aliphatic glue hardens to make sure the joint doesn't open when the tips are folded over joint. The wire is placed at each joint to prevent this from happening but I leave them in place for added security. Then place a little extra Aliphatic glue at each dihedral joint. Reverse the procedure to fold the wing back to its original length. I. Coslick 07

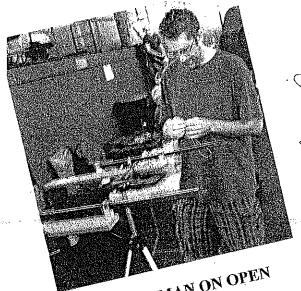


REPLICA GONDOLA FROM MOVIE, "THE HINDENBERG"

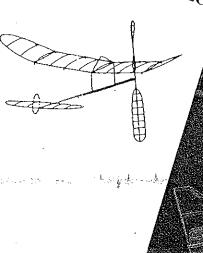


Y.K. LEE AND JEFF HOOD

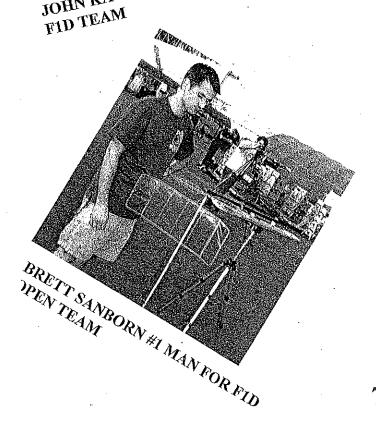
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JOHN KAGAN #2 MAN ON OPEN

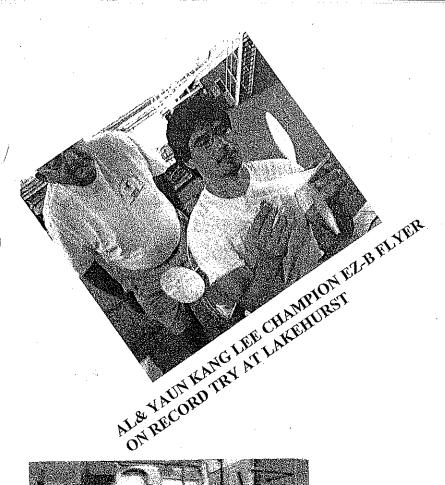


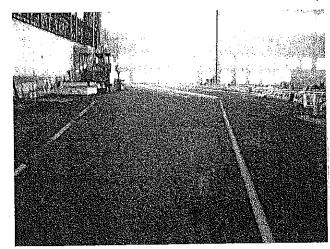
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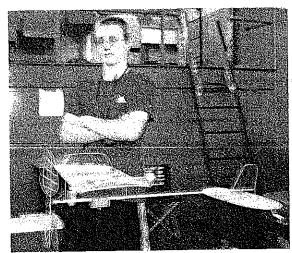
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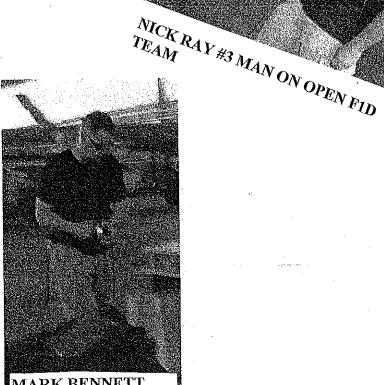




CARRIER DECK FOR TRAINING SAILORS IN FLIGHT DECK OPERATIONS. **DECK IS ABOUT 12 FEET ABOVE** THE FLOOR OF THE HANGAR.



TOM ICAOBELLIS #2 MAN ON JUNIOR F1D TEAM



#4 MAN ON F1D (WC) **OPEN TEAM**

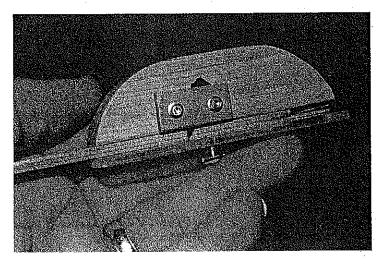


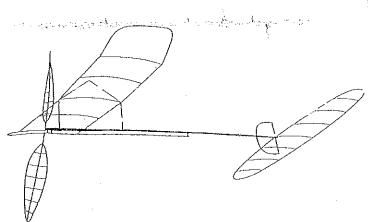
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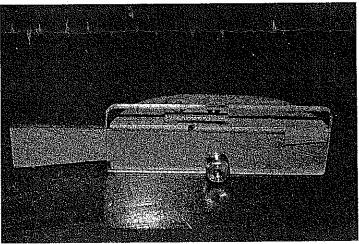
GARDNER-STYLE BALSA STRIPPER

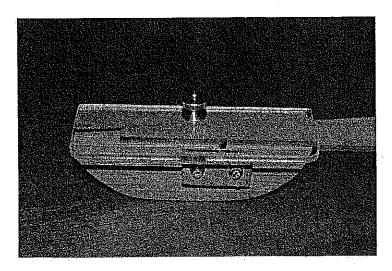
Dennis Tyson

Dennis sent in a few pictures of his Gardner-style stripper that he built. Pictures should make it self-explanatory if you want to build one of these great tools.









NEWS and VIEWS

23602-4011 NEWPORT NEWS, VA ABRAM VAN DOVER, EDITOR 112 TILLERSON DR

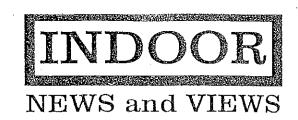
ISSUE #131 EARLY FALL 2011

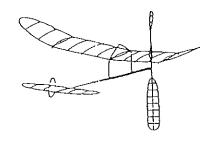


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ISSUE #132 FALL 2011





FROM THE EDITOR'S DESK

Issue #132 looks like we have a lot of good info for you plus some products you may find handy and or interesting. Right off the bat we have the big shoot out in California, in the big blimp hangar in Tustin. The first record trials in November,26,27&28. Three days of non stop indoor flying for all types of indoor models, see the add on the next page. Then to top it all off, there is the December extravaganza, 26,27,28,29&30. I have a feeling Ralph Ray is behind this with Stan Buddenbohm right on his heels. Something about a two minute Catapult glider flight. If you're an indoor flier and can get to Tustin, this is where you want to be. It's record setting time.

Our next hot item can help you to set some records. It's a new revolutionary winder. It has a chain that drives the winder shaft. It is very smooth, is 20 to 1 and is very affordable. Just the thing for Christmas. It is the brainchild of Art Holtzmann, who has put much R&D time into the product and now gives us another choice in winders.

This next item gives you another chance to use your new gear driven winder. It's the International Postal Contest for EZ-Bs and A-6s. The Brainbusters have decided to run this contest at least one more time. It runs 1 January to 31 March 2012, so you have oddles of chances to use your new winder and fly indoors. See how we can help you do things.

On this next item I have to apologize to Brett Sanborn for not recognizing his record setting flight at Lakehurst at the USA F1D team selection finals. Brett's 38minutes&36 seconds, thereby besting John Kagan's record. Brett and John are 1&2 on the USA F1D Team.

We still have more. Observe The European F1D times at their Championship Contest. They compare with us and when we're on their turf it's tougher than at home Our guys have the stuff to beat them and they can do it with our support. When the time comes for donations, chip in as best you can, The AMA cannot pay all costs we need to help as well. Big hint

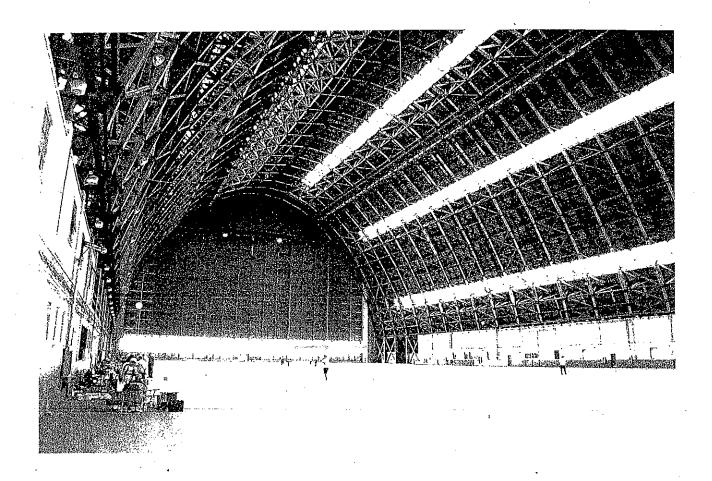
More yet: I have put expiration dates on about 99% of our subscription base and red Xs on a lot of newsletters. If you feel I have cheated you, (my words) please call or E-mail me and we'll work it out. E-mail VanDover@cox.net Tel 1-757-877-2830. Thank you.

More again. Not so good news. East Tennessee State University has installed 10 banners by the scoreboard in their Minidome. It will really hurt our indoor flying. We have dedicated people that are trying to remove these and then put them back up after our Indoor Nationals in May. It will cost

us money, I don't think the AMA can help us. There are no suitable sites we can afford in the USA

that we know of. The ball is in our court. Ideas? Contact me as above

How would you like to fly at this beautiful site?



Indoor flying and record trials at the world famous Tustin, California MCAS Blimp Hangar during the Thanksgiving and Christmas Holidays. We have reserved the hangar November 26,27, and 28. Plus December 26, 27,28, 29 and 30.

E-mail ralphray@earthlink.net with your chosen dates. Cost will vary from \$20.00 to \$50.00 per day depending on sponsorship and participants. You can call Ralph at 1-619-504-2661

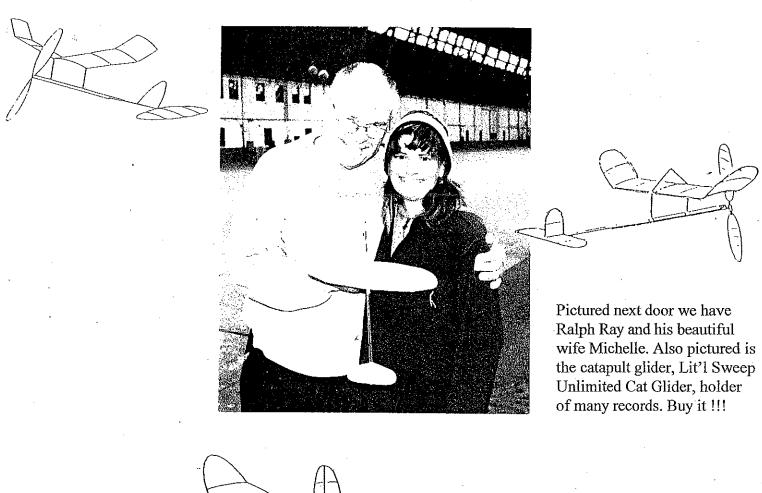
The floor of this Cat 4 site is 167 ft high, and approx. 300X600 ft.

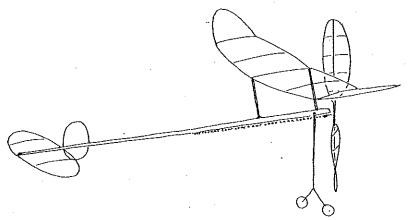
Reasonably priced motels and dining nearby. 15 minutes from Orange Country Airport, the Pacific Ocean and Disneyland.

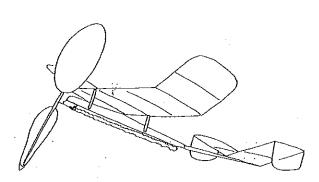
After many requests Stan is kiting the Lit'l Sweep standard indoor catapult glider, holder of many records. Also he has agreed to kit an unlimited indoor catapult of up to 18" span. These gliders have balsa fuselages, no carbon, the wings remove for incidence adjustment and easy transportation. Lit'l Sweep can already be found in Stan's catalog seen on the website discuskid. They are selling for an introductory price of \$20 and \$25 plus plans and shipping.

Bring them to the Tustin Blimp Hangar events for coaching by Ralph Ray or Stan. (National Champions and Record Holders)

Also, the Super #11 Knife blades are still available: 10 blades for \$10 plus priority shipping (\$5 for any amount), or they can ride for free if you order something else from Stan.



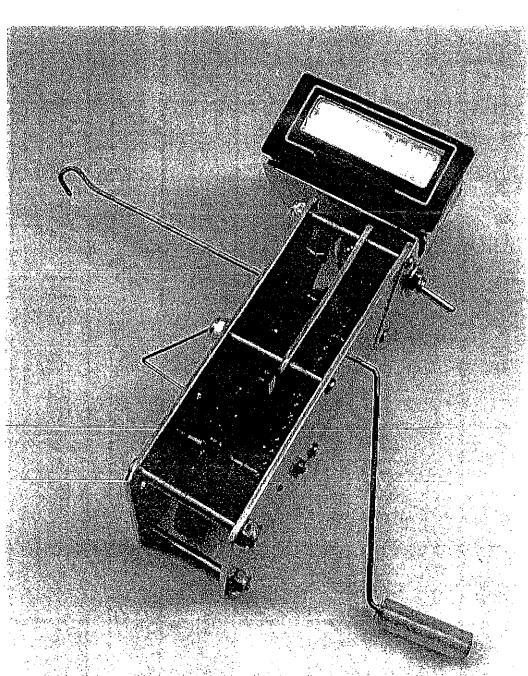




ART HOLTZMAN'S CHAIN OPERATED 20 TO 1 WINDER FOR INDOOR RUBBER POWERED MODELS

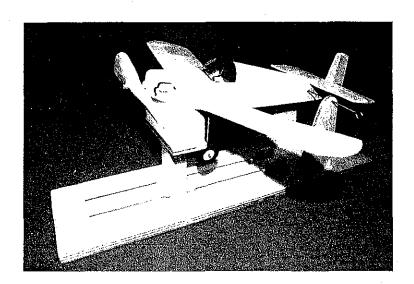
Looking for a winder for your indoor rubber powered models? Need a smooth one with a winds counter? This is the one for you. It is not only smooth, but will last for a good many years and be just about maintenance free. Keep it clean and oil it once a year and very little at that. This is a winder that has gone through much research and development and many modifications. The price?, \$130 including postage, \$3.00 for overseas Plus a 6% exchange rate. You can contact Art at upwind120@gmail.com for any particulars. You can have a 1/32 winding hook or the 1/16 one. It seems that some people use the small O rings and them and the 1/16 th hooks do not get along. Check with Art if you want a different one. Below are some pictures of our winder and the small hook magnified of course Gears or chains, chains for me.





A WORTHY CAUSE

The Tyson family is selling a dandy FAC-type stooge to defray the costs of sending the 2012 USA Indoor World Champ Team overseas to defend our national honor. A picture follows. It looks like it would work just fine, just the right size for smaller models. The cost is \$30 or \$35, postpaid, I forget which. Get yours today. Contact the Tyson's at: Ddtyson@peoplepc.com



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2012 INTERNATIONAL INDOOR POSTAL CONTEST MINISTICK & A-6

Welcome back to the annual International Indoor Postal Contest for Ministick and A-6. Last year I said the Brainbusters would not do it any more. Change 2, We changed our minds. We will host the 2012 contest. As before, the two events will be flown between 1 January and 31 March 2012. Individuals may fly as many time as they like, in as many sites as they can, in the 3 month period. However, only their highest score will count towards winning in their respective events. All scores will be mailed or sent by E-mail to the address below. We will not have a web site and will not divide flyers into various groups. Scores will be published in the Brainbuster Newsletter as available. Also in the February/March Indoor News and Views of 2012. All final scores will mailed to entrants that are not subscribers of INAV. Trophies will be awarded to third place in both Ministick and A-6. All scores forwarded to the Brainbusters will contain all the information on the attached score sheet. Both sets of event rules are included.

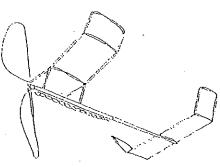
SEND YOUR RESULTS TO: BRAINBUSTERS 112 Tillerson Dr Newport News, VA 23602 USA E-MAIL vandover@ cox.net

This contest is open to indoor models that comply with the AMA Ministick Rules.

All contest flights to be timed by someone other than the flyer

Best single flight time wins afterthe flight time has been corrected for different ceiling heights. Ceiling height to be measured as per FAI Rules, but with a five meter circle. The correction factor is 627 divided by, (167 plus 46 times the square root of the ceiling height in feet) The time in seconds will be multiplied by this to give the corrected time.

MINISTICK RULES



24. Mini-Stick. For event 220.

24.1. The intent of this proposal is to make Mini-Stick an official event to allow including the event in AMA contests, to increase participation, and to allow records to be more easily kept.

24.2. The Mini-Stick model shall be a monoplane covered with any commercially available material sold in sheet form. Microfilm is not allowed.

24.3. The maximum projected wingspan shall be seven (7") inches.

24.4. The maximum wing chord shall be two and one-half (2-1/2") inches.

24.5. The maximum length (from front of nose bearing to front of rear motor book) shall be five (5") inches

24.6. The maximum length from front of nose bearing to rear most part of model shall be ten (10°) inches.

24.7. The projected area of the stabilizer shalt not exceed 50 percent of the projected area of the wing

24.8. The maximum diameter of the propeller shall be seven (7") inches. The propeller shall be constructed of wood. Wire shafts are permitted. Hubs that allow blade replacement and/or manual pitch adjustment are allowed. Mechanisms that cause variable pitch and/or variable diameter of propellers while in flight shall not be allowed. (Natural flexing and flaring of wooden blades is allowed.)

24.9. The minimum overall weight of the model (without motor) shall be 0.015 ounce.

24.10. Construction is to be primarily wood, with adhessives used only for joining. Tissue and/or thread is permitted for wrapping bearings, books, and for making sockets, if desired. Boron, carbon fiber, Kevlar, and fine wire bracing are not permitted.

24.11. Mechanisms that restrict the torque available to the propeller are not allowed.

- 1. The contest is open to indoor models that comply with the A-6 rules.
- 2. All contest flights to be timed by someone other than the flyer.
- 3. Best single flight time wins, after the flight time has been corrected for the 70 ft factor. Ceiling height will be determined by the ÅMA/FAI measurement method. Flight times will be normalized against times from the highest site entered according to the following formula:

 * The normalized flight time = 2/3 (Highest Ceiling Height) (Local Ceiling Height) + (Local Time)

 * Highest ceiling height will be

*Highest ceiling height will be established as 70 ft until an entry from a higher site is recieved.

* Example:

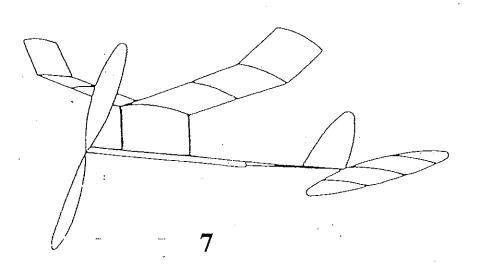
Highest ceiling entered = 70 ft
Local ceiling = 22 ft
Local time = 97 sec
Normalized time = 129 sec
2/3 (70-22)+97 = 129.0

*Note That the offical normalized times will not be available until the contest is completed Mail results to:

Brainbusters 112 Tillerson Dr Newport News, Va 23602 USA

A-6 MODEL RULES.

- ·1. 30 sq in max wing area.
- 2, 1/32 max prop shaft diameter
- 3. 6 in max prop diameter. The blades are to be flat, no chamber. Blades may be made of balsa or unlightened plastic, no foam. 1/32 in thick or 1 mm
- 4. 6 in max motor stick length as measured from the prop thrust bearing to the rear hook. Tail boom length unlimited.
- 5. All strip wood construction is to be a minimum of 1/16X1/16 or 1.5X1.5mm where only metric sizes available. The strip wood may not be sanded to any shape other than a square.
- 6. All sheet wood construction, prop blades, wing and stab ribs are to be a minimum of 1/32or 1mm thick. Prop blade edges will not be rounded.
- 7. All wing and stab ribs will be 1/32 X1/16 or 1.5mmX1mm minimum cross section.
- 8. Covering materials are limited to:
 Jap tissue, condenser or Gampi paper.
- 9. Only wood wire, adhesives and allowed covering materials can be used for construction with the exception of the prop shaft support and bearing which may be wire, aluminum or plastic. No special indoor material may be used.
- 10. Rubber power only.
- 11. The use of metric size wood is restricted to those that normally cannot get other size wood.
- 12. The model must weigh a minimum of 1.2 grams



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Indoor Postal Contest Results Form

BRAINBUS	TERS
112 TILLEI	RSON DR
NEWPORT	NEWS, VA
23602	USA

Club Name							NEWPOR' 23602		
Date of Contest	(_/		Site Name	· 	`			
Ceiling Height_			Feet	Circle one	Ministick	A-6	EZ-B		

Contestant Name	Address	Time in Seconds	Timér Initials	
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EUROPEAN INDOOR FID CHAMPIONSHIPS

			F1D		FAI Eu	ropean	Champio	nshop	F1D 20	11		
Name	FAI Lic	Country	Flight 1	Flight 2	Flight 3	Flight 4	Flight 5	Flight 6	Best	2nd Best	Total	Place
TREGER Ivan	SVK 1001	svk	36:40	37:15	33:06	37:08	32:51	38:01	38:01	37:15	75:16	1
SCHRAMM Lutz	GER-2196	GER	33:09	32:47	34:05	34:05	34:32	35:52	35:52	34:32	70:24	2
SUKOSD Zoltan	HUN-0321	HUN	32:18	32:41	34:31	35:12	33:14	32:44	35:12	34:31	69:43	3
KAPLAN Mikita	CZE 1016	CZE	30:39	_ 31:55	12:48	33:51	0:00	31:50	33:51	31:55	65:46	4
REE Andras	HUN-0030	HUN	1:12	28:52	32:59	32:10	12:38	32:42	32:59	32:42	65:41	5.
BARBERIS Didier	FRA 551	FRA	32:30	32:22	32:48	30:57	32:46	31:28	32:48	32:46	65:34	6
ORSOVAI Dezso	HUN-0027	HUN	16:50	19:50	32:46	32:41	32:17	32:32	32:46	32:41	65:27	7
NICOARA Vasile	ROU 134	ROU	18:22	23:55	26:09	32:34	10:09	32:12	32:34	32:12	64:46	8
BUNDESEN Uwe	GER-2192	GER	28:33	32:04	29:01	30:14	28:35	32:26	32:26	32:04	64:30	9
MARILIER Thierry	FRA 971	FRA	27:05	30:28	29:57	32:05	29:30	32:12	32:12	32:05	64:17	10
MIDIĆ Slobodan	F-101	SRB	18:49	17:42	8:34	31:45	31:56	14:50	31:56	31:45	63:41	11
POPA Aurel	ROU 135	ROU	1:42	19:20	31:03	31:22	27:12	30:57	31:22	31:03	62:25	12
MARKIEWICZ Jerzy	POL-53	POL	5:57	9:52	10:01	31:17	10:04	30:59	31:17	30:59	62:16	13
CHAMPION Robert	FRA 339	FRA	30:30	30:06	30:22	29:48	29:03	28:52	30:30	30:22	60:52	14
CIAPALA Edward	POL-203	POL	30:16	29:21	28:51	29:47	14:24	15:52	30:16	29:47	60:03	15
STRAKA Jaroslav	CZE 1279	CZE	25:49	1:22	24:12	30:00	21:54	29:55	30:00	29:55	59:55	16
MOMOT Tomasz	POL-4949	POL	30:06	29:01	1:05	0:41	3:13	22:43	30:06	29:01	59:07	17
KAPLANOVA Klara	CZE 1017	CZE	27:07	28:23	26:29	26:42	29:32	28:30	29:32	28:30	58:02	18
SCHOENFELDER Karl	GER-3252	GER	20:36	27:14	27:08	27:47	25:29	17:39	27:47	27:14	55:01	19
LINKOSALO Tapio	FIN-2500	FIN	24:48	24:59	25:37	25:30	24:49	24:14	25:37	25:30	51:07	20
LEFEVER Geoffrey	GBR 005484	GBR	0:00	11:45	24:46	9:09	8:55	24:21	24:46	24:21	49:07	21

FAI European Championshop F1D 2011 Team results								
Country	Total	Place						
HUNGARY	200:19	1						
FRANCE	190:43	2						
GERMANY	189:55	3						
CEZCH REPUBLIC	183:43	4						
POLAND	181:26	5						
ROMANIA	169:21	6						
SERBIA	109:38	7						
SLOVAKIA	75:16	8						
FINLAND	51:07	9						
GREAT BRITAIN	49:07	10						

24:29

22:53

9:50

19:17

21:28

18:13

21:00

9:45

0:00

1:07

24:29

0:00

0:10

45:57

42:10

23

19:17

LAĆIMIĆ Lazar

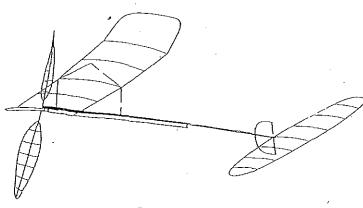
MORAR Aurel

F-138

ROU 605

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NEWS and VIEWS

NEWPORT NEWS, VA ABRAM VAN DOVER, EDITOR 112 TILLERSON DR

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Yes!