

# Phoenix Model Airplane Club

HAVING FUN WITH MODEL AIRPLANES SINCE 1937

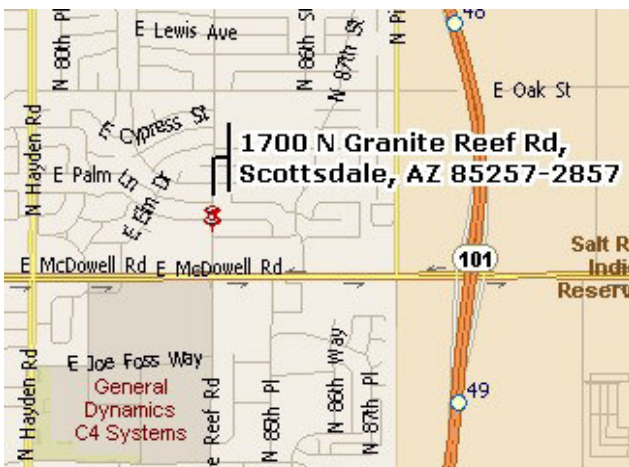
Volume 17 Number 3

March 2012

## NEXT MEETING

Tuesday March 12<sup>th</sup> 2012  
07:00 PM  
Room 10  
Granite Reef Senior Center  
1700 N. Granite Reef Rd.

**Visitors Welcome**

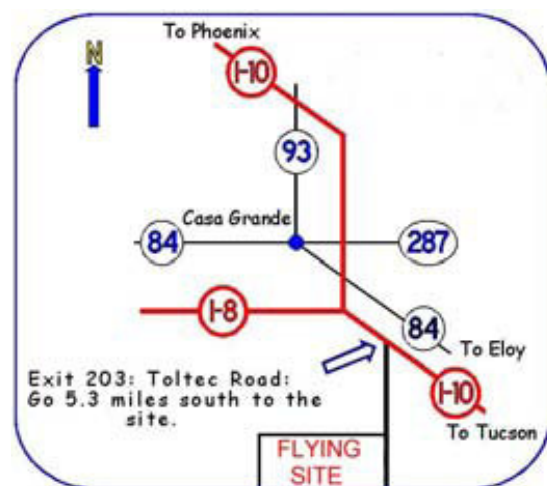


## NEXT CONTEST

### St Patty's Bash

Saturday Mar. 17<sup>th</sup> 2012  
WEBSTER FIELD – ELOY  
**AMA membership required  
for competitors**

**Visitors Welcome**



## CLUB OFFICERS

President:	Elmer Nelson	(480)-460-1366
Vice President:	Tom Gaylor	(480)-892-0338
Secretary:	Bill Sewell	(623)-551-8678
Treasurer:	Elmer Nelson	
Newsletter Editor:	Bruce Grawburg	(602)-978-4215 bgfalcon89@cox.net
Webmaster:	Alan Petersen	alan@apetersenpaintings.com



## *Prez Speaks*

What does  $4025 + 1802$  equal? Those with quick math skills will automatically equate that to 5827. And they would be correct, but only partially. The real answer is indoor flying! How you ask? Simply, that is the current population of Eagar and Springerville, the home of the Round Valley Dome. Thanks to over achiever Steve Riley, PMAC is hosting our first ever indoor contest this weekend, March 2nd and 3rd. Early indications are the contest will be well attended with several people coming from out of state. If you hadn't planned on flying in the contest, why not take a day trip and see some outstanding models slowly cruise for nearly 30 minutes just under the 100 foot ceiling. Take it from me, building one of these ghost like models is true test of your patience and will teach you a whole new venue of building skills.

Our first monthly contest of the year is now history. The forecast of strong breezes drifting models to the east didn't materialize as early as thought. We started flying shortly after 8:00 AM with the normal drift to the NW. All seemed on track for a great day of flying. At about 11:00 AM the wind shifted into the forecast west to east drift. A couple of models landed very close to Toltec Road raising serious concern. Shortly after, Dick Nelson had a great flight that carried his model well to the east of Toltec making for a difficult retrieve. At that point, models were packed away for the day. This was also the first contest using our modified scoring system. Remember, the new system was designed to encourage flying in more than one discipline with the award of bonus points to each additional discipline flown. Our disciplines are: rudder powered, gliders of all types, and engine/motor powered (this includes gas, electric, rocket & compressed air). Maximum flight times for each discipline remain the established max times for a given event. Examples:  $\frac{1}{2}$  A Gas, P-30, rocket power, etc.

Our next Eloy contest is the St Patty's Day bash on March 17th. Contest Director Ralph Hotz has called upon his Irish ancestors to give us another perfect flying day. Let's have a party. See you on the field.

Elmer Nelson

## **Editor's babble**

First, many thanks to Steve Riley for setting a high standard on the PMAC newsletter for many years and all of his help getting me started. Al Lidberg also has also been very helpful at providing wonderful content for future editions and general support to this rookie.

An engineering approach will supplement the total lack of editorial experience in hopes of exceeding audience expectations by using a spreadsheet tool to help align newsletter content with member's event participation. Please submit your non-Eloy contest participation to ensure accurate coverage of model types. Reports & photographs of non-Eloy events are also welcome and please include names associated with photographs. Your assistance on gathering and submitting "stuff" for this newsletter is essential to its success. "Stuff" includes technical articles, plans, photographs, humorous articles, sketches, tools, and anything else you believe our members would enjoy. Constructive feedback will improve our newsletter. Thanks

# Contest Results

## Eloy - Presidents Cup

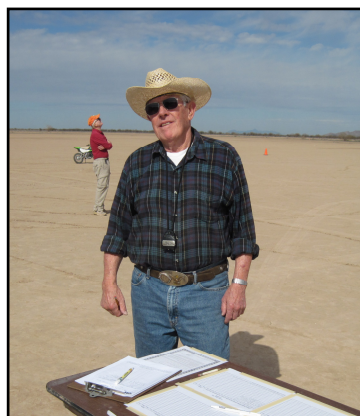
PMAC / TFC Champoinship		0	1	1						1	1	4		
Contest Results for 2-2012							Points							
Contestant Name	Event	Flt 1	Flt 2	Flt 3	FO 1	Total	Time	Maxes	Flights	Dicpl	Total			
AMA/classic Gas		Contest Point Distribution					50%	13%	23%	14%				
		Season Point Distribution					50%	12%	23%	14%				
Jean Andrews	AMA 1/2 A Gas	75	94	114		283	2		2		4			
Tom Miller	AMA 1/2 A Gas	81				81	1		0		1			
Nostalgia Gas / OT Gas Combo														
Dick Nelson	A Nos	180	180	141		501	2.0	2	2		6.0			
Dick Nelson	OT A Pylon	180	180	116		476	1.0	2	2		5.0			
2 minute combo														
Jean Andrews	P-30	88	120	120		328	4.0	2	2		8.0			
Ralph Hotz	E-36	120	120			240	3.0	2	1		6.0			
Tom Gaylor	P-30	120				120	2.0	1	0		3.0			
Bruce Grawburg	P-30	69				69	1.0		0		1.0			
3 min Rubber/Glider Combo														
Tom Gaylor	Nos Rubber	102	141	240		483	8.0	1	2		11.0			
Kent Prescott	Small Cabin	126	107	129		362	7.0		2		9.0			
Dick Strang	OT Stick	117	131	98		346	6.0		2		8.0			
Dick Strang	Nos Wakefield	118	180			298	5.0	1	1		7.0			
Kent Prescott	Small Stick	94	97	93		284	4.0		2		6.0			
Bruce Grawburg	Classic Towline	64	87	96		247	3.0		2		5.0			
Kent Prescott	Large Stick	180				180	2.0	1	0		3.0			
Elmer Nelson	Small Stick	97				97	1.0		0		1.0			
3 min FAI combo														
Elmer Nelson	F1B	140	180	168		488	1.0	1	2		4.0			
Catapult/ HL Glider combo														
Ralph Hotz	CLG	32	70	120		222	2.0	1	2		5.0			
Jean Andrews	CLG	27	37	25		89	1.0		2		3.0			
Bonus														
Jean Andrews	Powr Rubr Glidr									8	8.0			
Ralph Hotz	Powr Glidr									4	4.0			
Bruce Grawburg	Rubr Glidr									4	4.0			

Thanks to Tom Galyor for his photographic talents



# Contest Results

## Eloy - Presidents Cup



PMAC / TFC Champoinship									
Points Standing 2012 Season-To-Date									
Category / Contestant	Feb-12								Total

### AMA/classic Gas

Jean Andrews	4.0								4.0
Tom Miller	1.0								1.0

### Nostalgia Gas / OT Gas

Dick Nelson	11.0								11.0
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### 2 minute combo

Jean Andrews	8.0								8.0
Ralph Hotz	6.0								6.0
Tom Gaylor	3.0								3.0
Bruce Grawburg	1.0								1.0

### 3 min Rubber/Glider Co

Kent Prescott	18.0								18.0
Dick Strang	15.0								15.0
Tom Gaylor	11.0								11.0
Bruce Grawburg	5.0								5.0
Elmer Nelson	1.0								1.0

### 3 min FAI combo

Elmer Nelson	4.0								4.0
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### Catapult/ HL Glider com

Ralph Hotz	5.0								5.0
Jean Andrews	3.0								3.0

PMAC / TFC Champoinship									
Points Standing 2012 Season-To-Date									
	Feb-12								Total
Jean Andrews	23								23
Kent Prescott	18								18
Dick Strang	15								15
Ralph Hotz	15								15
Tom Gaylor	14								14
Dick Nelson	11								11
Bruce Grawburg	10								10
Elmer Nelson	5								5
Tom Miller	1								1

**Don't Forget**

( if you get this  
in time )

**Indoor Free Flight Contest**

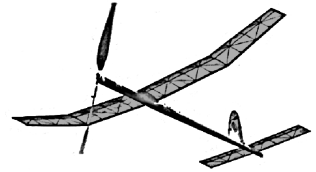
March 3<sup>rd</sup> & 4<sup>th</sup> 2012

Round Valley Dome, Springerville, Arizona



## AMBROID WISDOM

By George White



Paul Grabski, our local Ambroid Acolyte, was quick to come to the defense of good old Ambroid after reading the article concerning it in the previous issue of this rag. He says, in the first place, that Ambroid was introduced in the 1920's and has always been the same color. Interestingly, Lee Campbell also read the article and sent me a website address describing the origins of the stuff (it's really not a glue, but a cement). For an interesting read on the subject take a look at [http://www.ottertooth.com/Canoe\\_pages/ambroid.htm](http://www.ottertooth.com/Canoe_pages/ambroid.htm). It seems it started as a cement used to repair birch bark and canvas canoes, and in fact is still sold for that purpose. Camphor is used as a plasticizer for the cellulose from which it is made, and it has always been amber in color. As incorrectly stated in the previous article on Duco/Ambroid, Ambroid is not amber in color because of the addition of oil of mustard, which was added to some cements in the 70's allegedly to discourage "sniffing." The name is actually a joining of the words Amber and Celluloid, which was one of, if not the first, cellulose based plastic.

The article piqued Paul's curiosity as to which glue weighed the less, once dried. He applied .500gm each of Ambroid, Duco and Titebond Original glues to a surface, using his electronic scale which measures in hundredths of a gram. He made three samples of each, just to level out any variances which might occur. After letting each sample dry for 24 hours and weighed them, and then weighed them again after a month, here are the results:

### After 24 Hours Drying

	Sample 1	Sample 2	Sample 3	Total	Average
Ambroid	.120gm	.125gm	.123gm	.368gm	.123gm
Duco	.152gm	.157gm	.153gm	.462gm	.154gm
Titebond	.257gm	.251gm	.249gm	.757gm	.252gm

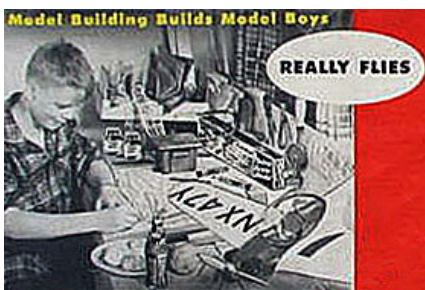
### After Drying One Month

	Average of 3 Samples	% Reduction
Ambroid	.112gm	8.9%
Duco	.143gm	7.1%
Titebond	.245gm	2.7%

Thus, Ambroid seems to be 20% lighter than Duco and 51% lighter than Titebond Original. In practical use these weights presume the same amount of cement/glue is applied to the bonded joint and Paul's experiment doesn't cover bonding strength. In the case of those who dilute Duco with acetone, these weights would almost surely be different. However, not being a chemist, I have no idea what diluting a carefully formulated cement with acetone does to the makeup of the cement or its bonding strength, although it would certainly seem that it would alter it. I would never use diluted Duco, as discussed in the previous article, without double gluing the joint. Perhaps the only advantage to be gained in using diluted, double glued Duco is a bit quicker drying. The above conclusions also don't take into account that the very careful application of any glue/cement to a joint rather than slathering it on, may be as important to the weight of a glue joint as the specific weight of the glue itself.

### The Pensacola Free Flight Team Thermalier Articles

<http://www.pensacolafreeflight.org/page5/page5.html>



Could life get any better than this? Models, cookies, Coke and your own space to build new planes that really flew.

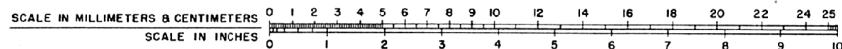


## 2012 Contest Schedule Phoenix Model Airplane Club / Tuscon Freeflight Club

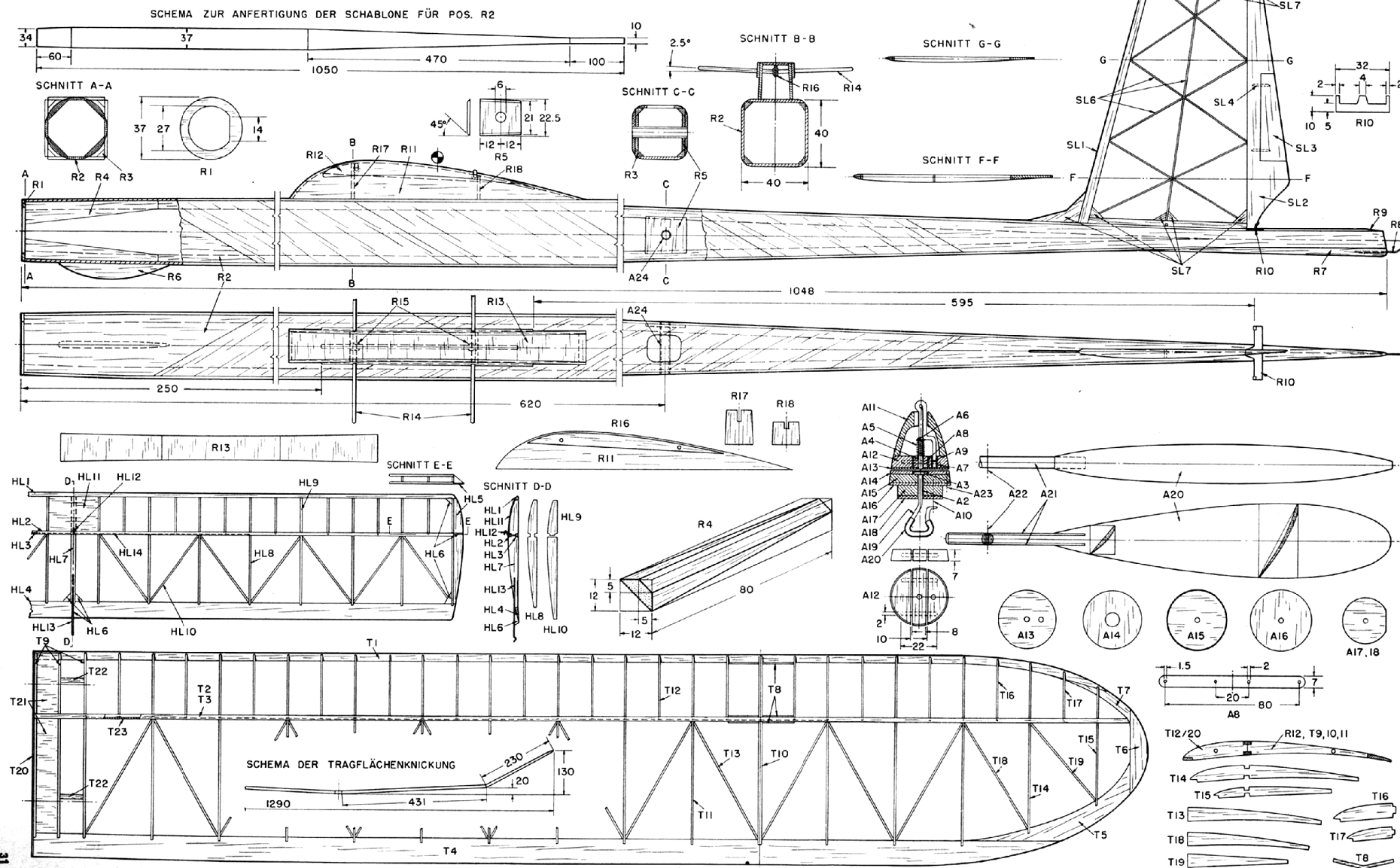
<b>Start Time</b>	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	America & National Cup	
<b>May-Sept: 7:00 AM</b>	President's Cup	St Patty's Bash	I-10 Challenge	Hot Stuff	Fall Kick-off	Ghost Riders	Armed Forces Memorial	Arizona Free Flight Championships	
<b>All others: 8:00 AM</b>	Sunday	Saturday	Sunday	Saturday	Sunday	Saturday	Sunday	Saturday	Sunday
	2/19/2012	3/17/2012	4/22/2012	5/19/2012	9/16/2012	10/20/2012	11/11/2012	12/1/2012	12/2/2012
<b>GAS/ELECTRIC EVENTS</b>									
AMA 1/2 A GAS	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)*	
AMA A/B GAS	X	X	X	X	X	X	X	A	B
AMA C/D GAS	X	X	X	X	X	X	X	D	C
AMA Classic 1/2A Gas	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)		(Jr) (SO)*
AMA Classic AB Combo	X	X	X	X	X	X	X	AB	
AMA Classic CD Combo	X	X	X	X	X	X	X		CD
NOS 1/4 A	X	X	X	X	X	X	X	X	
NOS 1/2 A GAS	X	X	X	X	X	X	X		X
NOS A GAS	X	X	X	X	X	X	X	X	
NOS B/C GAS Combo	X	X	X	X	X	X	X	C	B
NOS Early 1/2 A Gas	X	X	X	X	X	X	X		X
OT .020 REPLICA	X	X	X	X	X	X	X	X	
OT GAS COMBO	X	X	X	X	X	X	X		X
ELECTRIC COMBO	X	X	X	X	X	X	X	E-36	Elect A & B
<b>Rubber Events</b>									
P-30	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	
NOS RUB, Nos Wake, & Comb	X	X	X	X	X	X	X	Nos Wake	Nos Rub
OT Fus Combo Rubber	X	X	X	X	X	X	X	X	
OT Stick Combo Rubber	X	X	X	X	X	X	X		X
MULVIHILL	X	X	X	X	X	X	X		X
MOFFETT	X	X	X	X	X	X	X	X	
<b>FAI Events</b>									
F1A/F1B/F1C/F1P/F1Q Combo	X	X	X	X	X	X	X	F1A,B,C,P,Q	
F1G/F1H/F1J Combo	X	X	X	X	X	X	X		F1G,F1H,F1J
Vintage FAI Power	X	X	X	X	X	X	X	X	
<b>GLIDER EVENTS</b>									
H. L. GLIDER	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	
CAT GLIDER	(Jr) (SO)	(Jr) (SO)	(JR)(SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)		(Jr) (SO)
CLASSIC GLIDER	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)	(Jr) (SO)		(Jr) (SO)
<b>Contest Directors</b>	Lichtenberge	Ralph Hotz	Gaylor	Werner	D. Nelson	Loeffler	Andrews	E.Nelson/ Burros	
<b>Contest Classification</b>	A	A	A	A	A	A	A	AA	AA

**Note: All one day contests will be flown in combined categories. Anything you bring to the field can be flown in one of 6 categories**

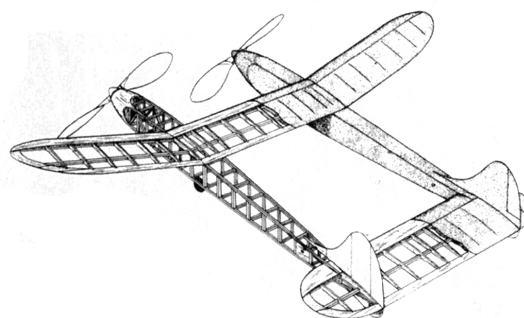
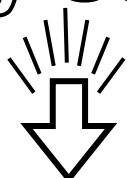
**\*For national cup points, junior AMA & Classic 1/2A Gas are combined**



DESIGNED & DRAWN BY JOACHIM LOFFLER  
TRACED & INKED BY AUBREY KOCHMAN



# Next Eloy Contest



	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	Nat'l Cup	America & National Cup	
	President's Cup	St Patty's Bash	I-10 Challenge	Hot Stuff	Fall Kick-off	Ghost Riders	Armed Forces Memorial	Arizona Free Flight Championships	
	Sunday	Saturday	Sunday	Saturday	Sunday	Saturday	Sunday	Saturday	Sunday
	2/19/2012	3/17/2012	4/22/2012	5/19/2012	9/16/2012	10/20/2012	11/11/2012	12/1/2012	12/2/2012
Contest Directors	Lichtenberge	Ralph Hotz	Gaylor	Werner	D. Nelson	Loeffler	Andrews	E.Nelson/ Burros	
Contest Classification	A	A	A	A	A	A	A	AA	AA

*Note: All one day contests will be flown in combined categories. Anything you bring to the field can be flown in one of 6 categories*

*\*For national cup points, junior AMA & Classic 1/2A Gas are combined*

## NEXT MEETING

**Tuesday March 12th**

07:00 PM Room 10

Granite Reef Senior Center

1700 N. Granite Reef Rd.

Scottsdale, Arizona

  
**Phoenix**  
 Model Airplane Club  
 Bruce Grawburg  
 6254 W. Hearn Rd  
 Glendale, Arizona 85306