



# *Pitts* SPECIAL



Official Newsletter of  
Metrolina Control Line Society (MCLS)

**We Fly Control Line!**

*And Have been Doing It Since*

*September, 1981*

*AMA Chartered Club #1811*



**March 2018 Issue**

**Pitts Special Archives,  
This Month's and all Back Issues are Here:**

<https://www.dropbox.com/Pitts Archives>



## **MCLS Club Officers:**

President:	Will Davis	<a href="mailto:willddavis@msn.com">willddavis@msn.com</a>
Vice President:	Watt Moore	<a href="mailto:medplans@truvista.net">medplans@truvista.net</a>
Sec./Treasurer:	Don Jenkins	<a href="mailto:d.l.jenkins33@gmail.com">d.l.jenkins33@gmail.com</a>
Safety Officer:	David Smith	<a href="mailto:smitty8126@yahoo.com">smitty8126@yahoo.com</a>
Information:	Howard Shenton	<a href="mailto:panzer4hs2001@yahoo.com">panzer4hs2001@yahoo.com</a>
Newsletter:	Rusty Knowlton	<a href="mailto:RknRusty@sc.rr.com">RknRusty@sc.rr.com</a>

MCLS is also in association with:

Mecklenburg County Parks & Recreation Dept. through the  
Waymer Aeromodelers Chapter of Academy of Model Aeronautics (WACAMA)  
MCLS Representatives to WACAMA are Max Flowe and David Smith

**The next MCLS meeting is Saturday, March 24th, 2018**

**at David B. Waymer Field**

**15401 Holbrooks Road**

**Huntersville, NC**

**GPS: [35.401170, - 80.814600](#)**

**Flying in the morning, Lunch around Noon,  
And more flying before and after the 2:00 meeting**

# Carolina Classic

## Control Line Contest

May 4, 5 and 6, 2018

Stunt , Combat , Navy Carrier

Waymer Flying Field. 15401 Holbrooks Road Huntersville, NC 28078

ENTRY FEES Each Event Open \$10.00 (\$30 Max) Jr./Sr. \$5.00 (\$15 Max).

Control Line flying on Two Paved Circles and One Grass Circle, Combat and Carrier circles are on two grass circles at the end of R/C Runway. Large Pavilion with picnic tables for Contestants & Spectators.

Lunch available on Saturday at noon break

NO PARKING IN THE PAVILIAN AREA

No Appearance Points . No BOM, All PAMPA & AMA Rules Apply.

*STUNT Registration at the Shelter*

*COMBAT & CARRIER Registration at each event site*

All Circles open for practice THURSDAY & FRIDAY.. May 4 & 5 all day

**Friday . May 4 : Fri. 1/2 A Combat** (.061 plain bearing ok) 4:00 PM start  
Judges Clinic 4:00 PM to 6:00 PM ..open to all

**Saturday . May 5 :Registration 9:00 am ..Stunt Pilots Meeting 9:45 AM**

- **Stunt** - OTS, N-30, Profile Stunt 10:00 AM Start
- **Basic Flight** 12:00 Noon Start
- **Navy Carrier** - Class I & II Glow & Elect, Profile Glow & Elect, 15, Nostalgia I, II & Profile, 9:00 AM Start
- **Combat** - Speed Limit & 1/2a 9:00 AM pilots Meeting

**Sunday . May 6 :Registration 8:00 am.. Stunt Pilots Meeting 8:45 AM**

- **PAMPA** - Beginner., Intermediate, Advanced, & Expert. 9:00 AM Start

Combat & Carrier if needed to finish TBD by ED's

*CONTACTS (for event rules) Hotel Info / map by request*

Will Davis --- (CD) wilddavis@msn.com  
James Duckworth --- (Admin) colduck@netzero.net  
Will Davis --- (ED Stunt) wilddavis@msn.com  
David Smith --- (ED Carrier) smitty8126@gmail.com  
Howard Shenton --- (ED Combat) panzer4hs2001@yahoo.com



# March, 2018

*By Will Davis*

The MCLS February meeting at Watt's was well attended, the food was great and we had a fun time flying and enjoying some unseasonably warm February weather. Brian and Lynn Malin spent the weekend at Watt's home so they could enjoy the meeting and the day's activities. Lynn had a full breakfast spread ready for anyone that arrived early Saturday morning, Great food and everyone enjoyed Lynn's cooking.

## **Park Dept News:**

There has not been a formal meeting with the county over the past month. The members of the WACAMA keep in touch with each other through e-mails and phone calls to keep everyone updated on issues.

The Wacama website(WACAMA.COM) has been updated with a join/renew option to purchase a park pass and applications to join MCLS or FAPA.

MCLS has a web site that is linked thru the WACAMA Web site.

[MCLS.WACAMA.COM](http://MCLS.WACAMA.COM)

## **Members News:**

John Gibson has been moved to a rehab hospital in Monroe NC , Please keep John in your prayers.

## **Club News:**

Contest prep for the May Huntersville contest is still in full swing. Here are a few items that need to be discussed at the March 24 meeting. If anyone wishes to learn how to judge PA, we have a judging Clinic on Friday for new and Experienced judges.

- Grass Cutting
- Field pits set up, Cones, Tape
- Porta Johns service
- Parking
- Tables for vendors
- Scoresheets for flights
- Trophies
- Scoreboards and Tally Sheets
- Tabulators
- Registration
- Runners
- Judges
- Food / Chips
- Drinks
- Posting for field Closure
- Combat needs
- Carrier Needs
- Special Awards



**Wesley Cleaning up Mike Garmon's Vintage Race plane**

**Upcoming Events:**

**March**

March 24 2018 MCLS Club Meeting Huntersville; Papa Watt's and Rockin' Rusty's birthday weekend

**April**

April 28 MCLS Club Meeting Huntersville

**May**

May 4, 5 & 6 2018 Carolina Classic Huntersville Contest

May 12 to 19 2018 Joe Nall Week

May 18 & 19 2018 Joe Nall Contest

**June**

June 11-16 2018 Brodak Fly In

**July**

July 8 -14 July AMA Nationals Stunt /Carrier

**August**

Paducah Kentucky Contest... Charlie Reeves

**September**

North Atlanta Contest... Tom Dixon

**October**

October 19,20 & 21 2018 Carolina Criterium Contest Huntersville

**Club Meeting:**

The Next Meeting of MCLS will be Saturday, March 24 2018 at the David B. Waymer flying field in Huntersville NC. We will fly some, break for lunch around Noon and fly before the meeting at 2:00 .

The Flying Aces RC Club is having a fun Fly the Same day as our club meeting, so it should be a full day of modeling

**Keep on Keeping on!**

*Will Davis*  
*President - MCLS*



## Contributions from our subscribers

This article by an unknown author was submitted by Will Davis

This is a lengthy article, so it will be posted in 2 or 3 parts.

To read the entire article now, [Click Here](#)

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### Functions of trim adjustments - Part 1

The trim of the model is by far the single most important factor (aside from the quality of the engine run) in making the airplane fly well. To fully trim the airplane, people have added more and more adjustable trim features. Everybody know that you are supposed to include all the modern adjustable features in the killer stunt ship. But it's often asked what they all do!

Without attempting to cover how to trim a stunt plane (a topic upon which we could easily get to Encyclopedia Britannica dimensions), it's at least worthwhile to know what nominal effects each trim adjustment had. I say "nominal" because one of the most important factors to learn in trimming and even designing airplanes is that a change in one area almost always affects everything else. There are a few examples below, but these are just the tip of a huge iceberg, and the descriptions, while hopefully useful, are an oversimplification.

I have divided the adjustments into those that primarily affect the Roll and Yaw axes, and those that effect Pitch. For those who haven't been studying aeronautics since their pre-natal days, these terms may be unfamiliar or at least not well-defined, so I'll take a stab at it.

The pitch axis of the airplane is the one you control - nose up and down. Positive pitch is nose up. Roll is rotation around the "long" axis of the airplane from the nose to the tail. A positive roll tilts the airplane to the right, so that, for example, in level flight, the right wing is down and the left wing is up. Yaw is a rotation around the "vertical" axis of the airplane, nose to the left or right. A positive yaw is a rotation to the right, so that the nose is aimed to the right of where you are going.

Note that these are all relative to the airplane. Right/Left/Up/Down are all determined as if you were in the pilot's position - not, importantly, relative to the ground, unless you happen to be flying level. That's important to remember, and I have seen many, many situations where people became confused about it.

Also, given that they are angles, it begs the question "angles relative to what". That's an interesting question, that would take some time to think through and explain, but for the time being let's say that roll and yaw are relative to the line drawn from the airplane to the pilot. So, there you are, flying happily through the maneuvers. At any instant, you could imagine a line drawn from your hand to the center of gravity of the airplane. In level flight it would be parallel to the ground. In the intersection of the overhead 8, it would be perpendicular to the ground. The roll angle is the angle between this line and the "side-to-side" axis of the airplane, and the yaw angle is the angle between this line and the "long" fore-and-aft axis of the airplane. And let's say that the pitch angle is the angle of the long axis of the airplane relative to the current direction of flight. They aren't the same! The nose can be pitched up or down relative to where you are actually going. This is not an entirely satisfactory definition, but it will do for now.

I will also emphasize that virtually none of the information in this article was invented, discovered, or first explained by me. It's an accumulation of the knowledge of others, and I don't even know where I first heard of some or most of it. So I can't provide attributions properly. I apologize in advance. There's no intent to claim it as my own.

With the preamble and caveats out of the way, on to the adjustments.

#### Next Month:

Roll/Yaw adjustments

[Click Here](#) to read the article in its entirety.

## The Editor's Sandbox

### The annual February meeting at Watt Field

We gathered at the home of Watt Moore on a nice clear and mild 80 degree February day. Boy, now that it's March, I sure wish those kind of days would come back! Will Davis cooked up some great cornbread and chili beans for us to fuel the fun, and here's about all the camera work that I shot that day.



Brian Malin, shown in the YouTube picture above, flew some patterns with his ME-109, while Howard and Max flipped and flipped so much trying to get an old combat plane running, it reminded me of Half-A Day. While they were flipping, Duck's grandson Kyle and his buddy Trent put up flights with various beaters and had a fine ol' time... flip, flip, BRAAAAAAP, flip, flip, flip... Then Will insisted I fly from a bar stool he'd hauled out of Watt's shop. I was a little dubious with my busted hip and all, but I gave in. And I'm glad I did. He set up a Lightning Streak or some such electric thing and turned the chair while I flew. It was good fun, my first flight of the new year.

On that same topic, I just came home from a follow-up appointment with my Bone Cutter today, and he said it's healed enough that I can do whatever I want, nothing's going to bust it unless it just decides to bust on its own... meaning I can try flying if it doesn't hurt too much. I think I can, if good weather ever comes on a day when I can walk without a cane. That'll be any time now, so I can get some flights in before the contests in May. Yaaaazoo! I'm ready for that. It's been a long winter. Now, hello Spring!

See y'all in Stuntersville.  
Rusty

# The Secretary Treasurer's Report

## Minutes from the February 2018 meeting, by Don Jenkins



### Metrolina Control Line Society Meeting Minutes from 24 February 2018

Metrolina Control Line Society (MCLS) held their regular monthly meeting at Watt Moore's Field in Chester, SC. Rusty, Max and a few others got in some flying.

The following members were present: Will Davis, Don Jenkins, Watt Moore, James Duckworth, Kyle Anderson, Howard Shenton, Max Flowe, Keith Palmer, Rusty Knowlton, Everett and Jo Shoemaker, Brian and Lynn Malin, Stan Powell and his Grandson Trent.

The meeting was brought to order at 2:00 PM.

#### Financial Report:

The club remains financially stable and has the funds available to support the 2018 contest season. Will Davis was reimbursed for both AMA contest sanction fees for the Huntersville contests.

#### Health and Well Being of Fellow Modelers:

Don Jenkins' Father and Curtis Comer have passed, and our thoughts and prayers go out to their family and friends. John Gibson has been hospitalized and we wish him a speedy recovery!

#### Parks and Recreation Department News:

The Parks Department has opened Waymer Flying Field to the general public on Wednesdays and Sundays from sunrise to sunset, allowing anyone to fly anything they bring. Be patient, but if personnel are using the control line circles for anything but flying control line planes, ask them politely to leave, and if they refuse dial 311 and make a complaint.

#### Old Business:

The Carolina Classic is scheduled for May 4 through 6, 2018, at Waymer Flying Field in Huntersville, NC.

#### New Business:

1. In support of the Carolina Classic the following items must be accomplished:

Howard Shenton will order plaques for all events including a Pilots Choice Award for any plane flown on Sunday in a PAMPA event.

Porta-Johns need to be serviced just before the contest.

Max Flowe and Will Davis will coordinate to mow the field

2. The following list of events are provided to ensure proper planning and maximum participation by all:

The next MCLS Meeting will be March 24<sup>th</sup> at Waymer Flying Field.

The 2018 Carolina Classic is May 4, 5 and 6.

The Joe Nall Fly-In is May 12-19, and the contest is May 18 and 19.

The Brodak Fly-In is June 11-18.

The meeting was adjourned at 2:34 PM.

Respectfully,  
Don Jenkins  
Secretary and Treasurer



# 2018 - METROLINA CONTROL LINE SOCIETY - 2018

## MEETINGS, CONTROL LINE CONTESTS / INTERESTS & HOLIDAYS

Legend	Holidays							MCLS Activities (Meetings, Contests, Etc.)							Control Line Contests or of interest							Updated: 31-Dec-17															
Mo / Day Weekend	Sun	Mon	Tue	Wed	Thr	Fri	Sat 1st	Sun	Mon	Tue	Wed	Thr	Fri	Sat 2nd	Sun	Mon	Tue	Wed	Thr	Fri	Sat 3rd	Sun	Mon	Tue	Wed	Thr	Fri	Sat 4th	Sun	Mon	Tue	Wed	Thr	Fri	Sat 5th	Sun	Mon
2018 January		1 New Years Day	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
						Frosy Dog Electric fly in								Allan Brickhuse Memorial Dinner						8:00pm Market Street Restaurant							NO										
						Tripple e Tree								Gastonia NC														Mtg									
February					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28					
														Swap Meet				Valentines Day										MCLS At Watts									
														Perry Ga																							
March					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
						S/E Model Show														St. Patrick's Day								MCLS At									
						Swap Meet																					Htrsvl										
April								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
																												MCLS At									
																												Htrsvl									
May				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
June																																					
July	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
August																																					
September																																					
October																																					
November																																					
December																																					





# Metrolina Control Line Society

## AMA Club # 1811

### 2018 Membership Application

Name  AMA #

Birthday (M D ?Y)

Mo Day (Y Year - optional if you want it known)

Spouse / or?

Address

City

State

Zip

Home Phone

Cell Phone

email

General Interests / Comment

Control Line Flying Interest ☐ Stunt (St) ☐ Combat (Cb) ☐ Speed (Sp) ☐ Sport (Sr)  
☐ Carrier (Cr) ☐ Scale (Sc) ☐ Racing (Ra)

Membership Dues ☐ \$0 JR/SR AMA Member or ASSOCIATE non flying member  
☐ \$20 INDIVIDUAL or non flying member wanting to support the club  
☐ \$25 FAMILY- Only if all members are flyers. Need separate applications for all family members.  
☐ \$0 NEWSLETTER ONLY- MCLS Membership not required but we would like your personal information for our mailing list. AMA card not required

Make Checks or Money Order Payable to:  
Metrolina Control Line Society  
Send to

Don Jenkins  
4042 River Oaks Road  
Lake Wylie SC 29710

Phone: 803-831-1753  
email: D.I.jenkins33@gmail.com

Please record the date on your current  
AMA or MAAC (Canada)  
MEMBERSHIP CARD

Month - Year  
Ex: 01-2018

**You must be an 2018 AMA member  
to fly with us at Waymer field**

## SURFING THE WEB - USEFUL WEB SITES FOR CONTROL LINE:

***Stunthangar.com***  
***Control line forum***



Non-member visitors can close the Log-In nag window.  
Click the "Do not display again" button.  
Guests can post in the "General Questions" forum

**Stuka Stunt Works** - [www.cstunt.com/htdocs/dc/dcboard.php](http://www.cstunt.com/htdocs/dc/dcboard.php)

**Brotherhood of the Ring** - <http://brotherhoodofthering.info/>

**Airfield Models** - <http://www.airfieldmodels.com/>

One of the best sources of modeling and building explanations and illustrations on the web

**PAMPA** - <http://www.pampacl.org/>

You must be a member of PAMPA to access many areas of this valuable site

**AMA - Academy of Model Aeronautics** - <https://www.modelaircraft.org>

**Brodak** - [www.brodak.com](http://www.brodak.com)

Complete Control Line hobby shop and manufacturer of supplies and kits

**Sig Manufacturing** - [sigmfg.com](http://sigmfg.com)

**Bob Machado's Museum and Gallery:** [www.hobbyistparadise.com](http://www.hobbyistparadise.com).

**Phil Brown's Web site:** [www.mastercontrollinelinksite.info/](http://www.mastercontrollinelinksite.info/)

A complete listing of control line web sites.

**Tulsa Glue Daubers Website** - [www.tulsacl.com/](http://www.tulsacl.com/)

**Flying Lines Website** - <http://flyinglines.org/>

Great site out of the Northwest. Lots of columns on all aspects of CL modeling.

**Pitts Special Archives, all back issues plus the annual club Calendar  
of events and contest flyers:**

[https://www.dropbox.com/sh/b66ijo7zsvrfqp9/  
AAD5XUYeMXHoTDqtKsajRThNa?dl=0](https://www.dropbox.com/sh/b66ijo7zsvrfqp9/AAD5XUYeMXHoTDqtKsajRThNa?dl=0)

## VENDORS' CORNER

The following are club members and frequent contest attendees who provide parts, tools and supplies.

**Norine Armish** - Phone: 717-805-4457. Email: [karmish@ptd.net](mailto:karmish@ptd.net)

We are a small, neighborhood shop in Selinsgrove, PA. I do artwork on wood, tin and slate, and I have two associates who do stained glass and crochet.

Website: <https://www.facebook.com/ArmishsCountryStar>

**Phil Cartier** - Phone: 717-566-3810. Email: [philcartier@earthlink.net](mailto:philcartier@earthlink.net)

Combat & Stunt kits, Cores & misc. combat & Stunt CL items.

Website: <http://home.earthlink.net/~philcartier/webcat/catalog.html>

**Tom Dixon** - Phone: 770-592-3279. Email: [bdixon@mindspring.com](mailto:bdixon@mindspring.com). (Does not use email-Call)

Plans and accessories for the stunt flyer. Double Starr engine importer. Stunt eng. mods.

Website: <http://tomdixon.tripod.com/tomdixon.htm>

**Bob Krug** - Phone: 923-696-1291. Email: [rlkrupa@sbcglobal.net](mailto:rlkrupa@sbcglobal.net)

Supplies Powermaster fuel and other miscellaneous items for sale at contests. Does not ship fuel. Contact him for contests he will attend.

**Jim Lee** - Phone: 785-266-7714. Email: [jlee9@cox.net](mailto:jlee9@cox.net)

Expertly machined parts and tools for model building.

Website: [www.leemachineshop.com](http://www.leemachineshop.com)

**Bob Machado** - Phone: 508-404-6376. Email: [bobandedy@aol.com](mailto:bobandedy@aol.com).

Buy /sell CL and everything else from the website info. Also has a model museum.

Website: <http://www.bobmachadosgallery.com>

**Brian Malin** - Phone: 321-537-1159. Email: [brian@bmjrmodels.com](mailto:brian@bmjrmodels.com)

Laser cut FF, CL & RC kits.

Website: [www.bmjrmodels.com](http://www.bmjrmodels.com)

**Bill Mandakis** - Phone: 336-499-1192. Email: [mandakis@bjm-home.com](mailto:mandakis@bjm-home.com)

Brodak distributor

Website: <http://www.bjm-home.com/modelshop/openingselectionwindow.html>

**Randy Smith** - Phone: 687-407-9376. Email: [Randy@aero@msn.com](mailto:Randy@aero@msn.com)

Full service stunt items, Engine tuners, Plans, Props. Engines, etc...

Website: <http://www.aeroproduct.net>

**Tom Morris** - Phone: 256-820-1983. Email: [ctmorris@cablone.net](mailto:ctmorris@cablone.net)

Extensive line of built models. Electric supplier.

Tom's supplies are available through <http://stunthanger.com/hobby>

**Watt Moore (Brodak distributor)** - Phone: 803-789-9430, 803-517-1153 Email: [medplans@truvista.net](mailto:medplans@truvista.net).

He can order anything from the Brodak catalog or may have it in his shop.

**John Saunders (Brodak distributor)** - Phone: 856-697-0656. Email: [Stiletto46@comcast.net](mailto:Stiletto46@comcast.net).

Look for John at contests with all sorts of CL supplies. Brodak Dealer.



If you find any broken or erroneous links, addresses or phone numbers, please notify me at [RknRusty@sc.rr.com](mailto:RknRusty@sc.rr.com)



## Directions to Waymer Field in Huntersville, NC



**GPS: 35.401170, - 80.814600**

**And that's a Wrap for March, 2018  
Thanks for Reading**

**If you have any questions, trouble reading or  
accessing the newsletter, mistakes, correc-  
tions or any other reason, please contact me:**

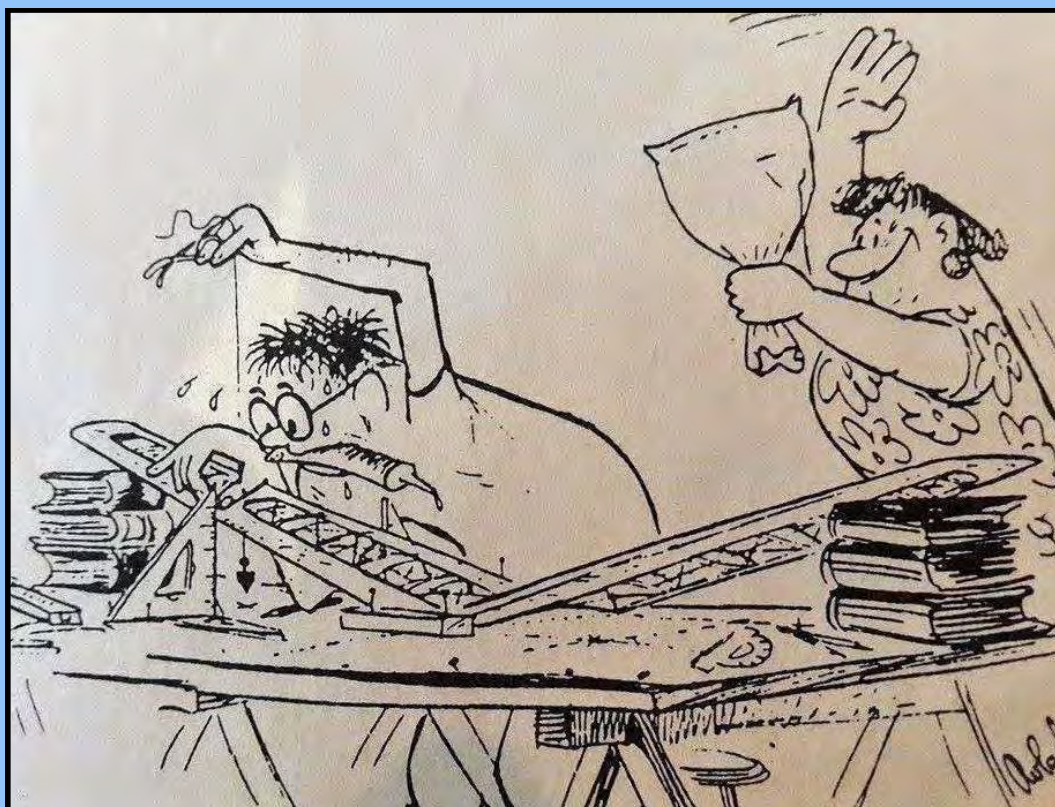
**Rusty Knowlton**

**[RknRusty@sc.rr.com](mailto:RknRusty@sc.rr.com)**

**803-603-5532**

**[Browse the Pitts Special Archives here](#)**

**All current and past Issues with printer friendly  
calendar and articles**



***That's all Folks***