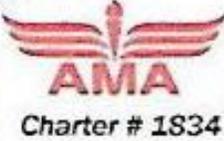




The THUMB PRINT
Thermal Thumbers Of Metro Atlanta

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AMA
 Charter # 1834

FLYING ACES club




March-April, 2017

HEADS UP

Welcome to the second issue of the year. The outdoor season is finally underway after our rain-out in April, but the day of the May contest started breezy but ended in fine enough weather fashion. It was great to be outside under clear, bright and blue skies flying model airplanes. That report follows. The indoor season remains active at St. Lukes, and attendance is getting pretty good. Frankly, my fellow Thumbs, there just isn't any excuse for any of you not to attend club contests. Show up somewhere with a model airplane!

Other items of interest follow herein. The 2017 NFFS Symposium Patron Letter is out and re-printed later in this issue. Many Thumbs usually contribute, so join in. This year's sympo will be a good one. Reports on the Southeast Model Show and another gathering of the modeling diaspora follow, namely my annual foray into the plastic modeling world via the Atlanta IPMS chapter's big contest and swap meet. My obsessive meanderings through my vast (and space consuming) magazine collection brings forth a couple of nuggets. (Somebody make me stop!)

It's time for me to get out of the way. Ciao, y'all.

RENEWAL NAG

Well, we're into the month of May, and some of you haven't re-upped your TTOMA membership. Ergo, your dues are due! Because you're only a few months late I'll keep this nag short and sweet. You are hereby advised of your recalcitrance. (I'll get hot and bothered in later issues.) So, stroke that check, sign on the line that is dotted and send it to Karl "Karats" Hube at the address indicated on the membership form that follows. You know who you are. Eyes on you!

PLACES TO BE, THINGS TO DO, PEOPLE TO SEE

You'll find the full schedule of our upcoming indoor and outdoor contests in a blurb provided by Karl Hube later in this issue. Colorful and informative displayed, fill in your calendars thusly. Thanks, Karl. The outdoor season stumbled in April with a rain-out, but we recouped with the May meet. (We were having so much fun that we forgot to have a meeting!) Please make note of the two-day contest in June which features plenty of FAC action, and flyer follows. Kanones await for the intrepid.

Our indoor schedule continues to offer plenty of opportunities for flying and fellowship. For those strangers to the thrills Behind Closed Doors, our gatherings at St. Lukes are drawing pretty good crowds now. Indoor Free Flight seems to be a spectator's sport. And then, there're the charms of Dunwoody, the Golden Ghetto.

THUMBS ON THE MARCH

Six Thumbs journeyed up to West Baden this April and showed many of their fellow elite indoorists how to get it done under that building's legendary atrium. Most had podium finishes of some sort. Josh Finn scored firsts in Legal Eagle, F1L and Embryo, and a third in F1R. Hope Finn scored a first in Phantom Flash, a second in Embryo, and a third in A-6second. Bill Gowen scored firsts in Limited Pennyplane, a second in Embryo and

THEY CALL US NERDS

Not to be judgmental or snooty, but occasionally every garden-variety Free Flight modeler can expect to be called a “nerd” by those who don’t know better. Let me offer a snappy comeback. Simply offer the example of our plastic modeling friends. Whatever might be said, we actually work up a sweat occasionally and get a little fresh air on a regular basis. Not so, our “slave away on a model for six months and then put it on a shelf and look at it” brethren. (Bless their hearts.)

However, it’s a big planet, and there’s room for everybody. Atlanta has a huge and very active IPMS chapter, and I always visit their annual contest and swap meet and never fail to have a great time. The 2017 rendition was no exception. A few photos of some of the model airplanes follow. Note there’s a lot more on display, including armor, cars, ships and weirdo sci-fi stuff. And, if you want to add to your plastic kit collection, the prices are ridiculous. Altogether, it’s not a bad way to spend a few hours in the middle of running some Saturday errands.



GATHERING OF THE TRIBES

Every time I attend GAMA’s Southeast Model Show down in Perry, GA, honestly, I bow up with pride. The job they do is amazing. It’s the world’s largest model aviation swap meet and trade show. (Some guy tried to convince me that the Joe Nall ado was, but he was unsuccessful.) The 2017 edition didn’t disappoint. All four

arenas were filled with people and activities. Most of my time was spent centered around Hope and Josh Finn's large and commodious headquarters. I bought a few things, caught up with a few old friends and made a few new ones.

Still, for us urban types, it's easy to forget that Georgia's number one money-maker is agriculture, and our use of the state fairground is outré to its mission. Georgia excels in many agricultural products and leads the nation in a few. (We rightly should be called the Peanut State, as we slipped in peaches a long time ago. But, relax, with pecans, chickens, watermelons, blueberries, spring onions and much more—the nation grovels at our feet.) Every year when I leave the fairgrounds, I look up and see the visage placed alongside. In some odd way it inspires me. Go figure. (The DEA estimates that marijuana is our *numero tres* cash crop, but that's another story.)



GET YOURS TODAY

Don DeLoach is hosting a special rubber event at this year's Muncie Nats, the Perryman P-30s. Three of George's P-30s are officially recognized: the Small Speckled Bird, Sparrowhawk Speckled Bird and BMJR's Speckled P-30 kit. Don is also selling laser-cut short kits of the Small and Sparrowhawk Speckled Birds. Of the three, I'd recommend the Sparrowhawk. It's a beast and great flier with many Nats wins and podium finishes to its credit. (The history of George's P-30 can be found in a recent digital issue of the NFFS digest *Free Flight*. It was originally published by *Free Flight Quarterly*. The author is brilliant.)

Either of Don's short kits will cost you 20 dollars, American, postpaid. I assume it includes a really great CAD plan. He can be reached at: ddeloach@comcast.net.

YES, WE KEEEP SCORE

The club high point tallies follow below. Thusly, the first caulk line is hereby drawn. There is still plenty of time to boost your numbers, or resign in morose and sullen defeat. The choice is yours. The game's afoot.

Hope Finn	21
Josh Finn	15
Dohrman Crawford	10
Bill Gowen	9
Richard Schneider	8
Karl Hube	8
Dohrman Crawford	7

Nick Ray	6
Dan Crews	5
David Mills	5
Gary Morton	4
Lee Russell	4
Frank Perkins	3

NEXT ISSUE

Look for something in July. Expect something in July and with a hearty pimping of the Rantoul Indoor Nats and the Muncie Outdoor Nats. We'll have a bevy of reports of the indoor at St. Lukes and the outdoor action at the NG Turf Farm. Be sure to attend our two-day outdoor contest June 10 and 11. As I always do, I beseech the multitudes for contributions in the way of article, plans, photos, rants and raves. Don't make me work too won hard. Ciao, y'all!

April Indoor Contest Report

Ten intrepid Thumbers gathered in the Great Hall to enjoy some nice air and warm weather. Jim Altenbern and David Mills didn't fly, but instead made plans for the outdoor activities the next day which sadly ended up cancelled by bad weather.

David showed up with a carload of old George Perryman models and components which were distributed to those interested in adding historical models to their collections, including at least three were previous Nats winners: two large CO2 models and a version famed Fat Little Peg Legged Tub 'O Lard Speckled Bird Bostonian. Test glides showed an exceptional L/D for such a whimsical Bostonian.

Nick put up quite a show in F1D with his Treger-designed F1D, while your CD went for the humor route by making all his climbs in a full knife edge. Dan Crews and Lee Russell spent much of the day playing around with small models. Lee's midget only had a 6 inch span! Dohrm spent some time trimming his Jimmie Allen "Polish Fighter", which is starting to show some promise but needs a longer motor. Until next time, skysters!
Joshua Finn, CD, reporting.

F1D (¼ Motor)

Nick Ray 6:12+6:32 = 12:44

Josh Finn 5:49+5:36 = 11:25

Hope Finn 4:37+4:25 = 9:02

FAC Phantom Flash

Hope Finn 110+105+120 = 335

Josh Finn 80+142 = 222

Dan Crews 92+46+46 = 184

Limited Pennyplane

Dan Crews 6:36

Bill Gowen 6:35

Legal Eagle

Josh Finn 84+48+122 = 254

A-6

Hope Finn 5:10

Dime Scale

Dohrman. C. BD-4 38+36+38 = 112

Josh Finn Camel 21+32 = 53

F1R

Josh Finn 15:50+24:27 = 40:17

Hangar Rat

Dohrman C. 63



May Outdoor Contest Report

Ah, yes the weather. It continues to bedevil us. This time with a wonderful May 7, but made less wonderful by the wind. Long retrieves were the norm. (I walked almost six miles!) Because of the wind, the maxes were reduced to 90 seconds for several events. The clever stratagem achieved nothing, as both Blue Ridge Special contestants lost their models. The wind died down as the day went on, but strong gusts continued until we left the field. But, there was very little mud from the recent rains, a pleasant discovery.

We had 8 contestants, but the windy conditions kept official flights to lower number. Kudos to Gary Morton, Jim Altenbern, Karl Hube and others who came up with the "designated model" idea for each contest. Thereby, actual Peanut Scale models were spotted flying around. Hopefully, they numbers will increase as the year goes on. So, finish up those models and come on out and put up some times. Respectfully submitted by Dohrman Crawford, cub reporter.

P-30

Gary Morton	Marie	283
Lee Russell	Kiwi 30	212
Dohrman Crawford	Pirate	170

CLG

Frank Perkins	Sidewinder	177
David Mills	Straight Up	104
Dohrman Crawford	Drifter	86

GHQ Peanut Scale

David Mills	Lacey M-10	336
Dohrman Crawford	BD 4	246

Blue Ridge Special

Dohrman Crawford	270 (OOS)
Karl Hube	197 (OOS)

Dime Scale

Gary Morton	Waterman Racer	146
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Embryo

Lee Russell	114
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HLG

Dohrman Crawford	Who Dat	46
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Rubber Scale

David Mills	Lacey M-10	62
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TTOMA MEMBERSHIP FORM

Name _____ AMA # _____

Address _____

State and Zip Code _____ Other Family Members and AMA # _____

Telephone _____ E-Mail _____

**\$20.00/yr. adults, plus \$1.00/yr. for all juniors and for additional family members in same household.
Send check, payable to TTOMA, to Karl "Karats" Hube/104 Smith Forest Lane/ Alpharetta, GA
30004/770-886-0104.**

2017 TTOMA Outdoor Flying Schedule

North Georgia Turf Farm/ Whitesburg, Georgia
Flying is scheduled from 9:00 am to 4:00 pm

Date	Contest	Contest Director
May 7, 2017	May Daze Specials: P-30 and GHQ Peanut	Dohrman Crawford
June 10 -11, 2017	Chattahoochee Challenge Georgia State Championships	Jim Altenbern/Gary Morton
July 2, 2017	Turf Wars Specials: No Cal and E-20	David Mills
August 13, 2017	Fizzle While You Sizzle Specials: E-36 and SCat Jet	Graham Selick
September 24, 2017	Summer's Swan Song Specials: 2 Bit+1 and BRS	Dohrman Crawford
October 29, 2017	Last Fling Til Spring Specials: Jimmy Allen Scale and Embryo	David Barfield
November 5, 2017	Gary Baughman	Turkey Shoot

Note: The term “Specials” shown under each contest name is a new feature for 2017. The Specials are highlighted events with a prize for the winner. If two or more flyers score official flights, the winner will receive a return of the entrance fee. A flyer can win only one Special refund for the day. As always, any other event can be flown for fun or to score points for the big collection of club awards available at year's end.

2017 TTOMA Indoor Flying Schedule

St Luke's Presbyterian Church Gymnasium/ Dunwoody, Georgia
Flying is scheduled from 9:00 am to 5:00 pm

Date	Contest	Contest Director
May 27, 2017	Monthly Contest	Bill Gowen
June 24, 2017	Monthly Contest	TBD
July 8, 2017	Monthly Contest	Nick Ray
August 19, 2017	Monthly Contest	Joshua Finn
September 16, 2017	Peach State Indoor Champs	David Mills
October 7, 2017	Monthly Contest	Bill Gowen
November 18, 2017	Monthly Contest	Nick Ray
December 16, 2017	Monthly Contest	Joshua Finn
January 20, 2018	Monthly Contest	Bill Gowen

2017 Chattahoochee Challenge 2-Day Meet

June 10th and 11th, 2017 at the N GA Turf Farm, Whitesburg, GA
Sponsored by TTOMA and FAC Georgia Freedom Flyers

SATURDAY (8:00-5:00)

FAC Rubber Scale
Jimmie Allen
Simplified Scale
Jet Catapult Scale
P-30
E-36
Embryo
HLG
No-Cal Scale
WW I Mass Launch
Golden Age Mass launch
Blue Ridge Special

SUNDAY (8:00-3:00)

FAC Rubber Scale
GHQ Peanut Scale
2 Bit + 1
Dime Scale
CLG
E-20
WW II Mass Launch
Racers Mass Launch
Blue Ridge Special
Phantom Flash

RULES

- All events except Blue Ridge Special and E-20 will be flown to 2-minute maxes. Blue Ridge Special and E-20 will be flown to 90-second maxes. The CD will determine if modified rules for maxes will be needed in all events due to weather, and these rules will be distributed to all flyers at the beginning of each day.
- All fly-offs will be mass launched except E-20 and E-36.
- FAC Rubber Scale and Blue Ridge Special may be flown either day. All flights must be completed in one day either Saturday or Sunday.
- FAC Scale and GHQ Peanut Scale flight times will be the average of three flights.
- WW I and Racers Mass Launch will be at 11:00 am. Golden Age and WW II Mass Launch will be at 1:00 pm.
- Planes that qualify for both Jimmie Allen and 2 Bit + 1 may be flown in either event but not both.
- FAC Scale judging will be done on Saturday between 9:00 am and 12:00, noon.

AWARDS

Certificates will be awarded for the first three places. Points will be awarded to each contestant for the placing in each event flown and prizes will be awarded to the top five contestants in total points.

ENTRY FEE

Adults fly for \$10.00 for each day. Kids fly for free.

CONTEST DIRECTORS

Jim Altenbern (jaltenbern0705@charter.net) and Morton (gmorton@centurytel.net)



KUDZU SPRING CLASSIC JUNE 3-4 , 2017

RAEFORD, NC

Saturday June 3

Mass Launch:

WWI
Navy Scale*
Mod Civil / Mod Mil Comb.
Spanish Fly^

Judged / Timed:

Embryo
FAC Jet Catapult
Dime Scale
Simplified Scale
GHQ Peanut
No Cal

AMA Events:

Hi-Start Glider (Non-Scale)
AMA Catapult Glider
AMA P-30 Rubber
Time Target

Sunday June 4

Mass Launch:

WWII
Combined Racers
GA Multiwing / GA Single Wing Comb.

Judged / Timed:

2 Bit +1 OTR
Low Wing Mil. Trainer
FAC Rubber Scale
Phantom Flash
FAC Scale Hi Start Glider

AMA Events:

E-20 Electric
14 Gram Bostonian
SAM Twin Pusher Mass Launch
Blue Ridge Special
Time Target

* Any Navy aircraft, any era / nationality
^ Any aircraft that saw service in the Spanish Civil War

Bring your own lunch.

FAC events

Stew Meyers stew.meyers@verizon.net 301-365-1749
Dave Mitchell davedge@me.com

AMA events—John Diebolt

jdiebolt@mindspring.com 919-467-1025

For more information: www.carolinafreeflight.org
www.dcmxecuter.org

Google map to field: <http://goo.gl/maps/vc3R>

Take US-401 / Raeford Rd. WEST out of Fayetteville.
After the Food Lion shopping center on your left, US-401 divides; bear LEFT (south) on to US-401 Bus. Go 2.6 miles, turn LEFT at Oakdale Gin Rd. Go .4 miles, turn LEFT at Ratley St. Ratley makes a 90 degree bend to the left; at this point the field and dirt access road is on your right.

2017 NFFS SYMPOSIUM PATRON PROGRAM

Work on NFFS's 50th anniversary Symposium is well underway, and now is the time for you to join the Patron Program. Not only will you be supporting NFFS's continuing efforts to again produce the world's premier, annual Free Flight publication, and you will be among the first to receive it!

The 2017 edition is using the same "panel-of-editors" approach that made last year's among the very best ever. This year's staff includes three symposium veterans and two newcomers: David Mills, Harry Grogan, Paul Rossiter, Bernard Guest and Mike Slessor. All are longtime Free Flight modelers and have built, flown and published widely. This is a good group of much ability. Some of the papers in production are summarized below.

- Richard Mathis is taking a hard look at F1C and the consequences of their new 4-second engine runs.
- Brian Eggleston provides another paper in his long series of airfoil studies.
- Alan Brocklehurst follows up his paper from last year on wing airfoils at the Reynolds numbers unique to Free Flight models by delving into the even more extreme realm of our stabs and their aerodynamic characteristics.
- Roland Friestad follows up his paper from last year by discussing the restoration of old model plans and putting them into digital format.
- Allard Van Wallene is writing on a very vital but unheralded item of towline glider equipment—the towline itself.
- Gene Ulm is writing a manifesto on the new digital world and the opportunities it provides for Free Flight and NFFS. The goal is to reset the marketing strategies long used by NFFS and others in promoting Free Flight.
- Sergio Montes in writing another paper on the aerodynamics of stabs, focusing on the work of Hank Cole, Gerhard Woebbecking, and other creative designers.
- Louis Joyner and Dave Matthews are producing a survey of the current F1B state-of-art. Expect far-flung sourcing and some tasty graphics. Similar treatments of F1Cs from last year serve as the model.
- Peter King is discussing our Dawn Unlimited category by running simulations on a variety of characteristics like wing area, wing loading, rubber fraction and much more to maximize duration.

- Tapio Linkosalo discusses the emerging surplus of climb performance in E-36/F1S and how it should be adjudicated in any forthcoming rules change process.
- Frank Perkins is writing about Moore's Law and its application into the world of Free Flight electronics. One of the ablest of electronic practitioners, he charts the evolution of the various gadgets and gizmos we take for granted.
- Tom Hallman is writing on the various techniques of dethermalizing small, scale models. He outlines the various mechanisms that can be used to keep these airborne jewels from flying away.
- Omri Sirkis is writing on the various approaches to leading edge design in F1Q, allowed by recent rules changes.
- David Mills is presenting a primer on modern sympo production, a basic tutorial on how to take advantage of the new panel of editors methodology and other mechanisms on tap to produce an excellent sympo.
- The long line of past sympo editors will be saluted in the closing paper, and those still living are asked to reflect on their time under the editor's yoke and what the sympo meant to them at the time.

Being a Patron is the only way you can guarantee a copy of the 2017 NFFS Symposium, and get your name on the Patron List in this year's Symposium, as well. Our goal is have it in the mail to coincide with the 2017 Muncie Free Flight Nationals. So, look for your copy by late July. The minimum contribution levels to the Patron Program follows, and we encourage larger amounts, if you feel you can do so. All contributions beyond \$35 are tax deductible on your Federal return. The minimum contribution for USA members is \$60. (Canada and Mexico are \$75, and all other foreign addresses are \$80). Your copy will be sent directly from The Printer, as soon as it is off the press.

The deadline to be included in this year's Patron List is June 24, 2017. Please complete the form below and send with your check or money order in the enclosed addressed envelope to Bill Vanderbeek. We accept **PayPal**. If you do pay with **PayPal**, you still need to complete the form or a facsimile and send it to Bill Vanderbeek: billvanderbeek@yahoo.com confirming that payment was made via **PayPal**. **IMPORTANT:** be sure to send **Pay-Pal** payments to: fkf.nffs@earthlink.net.

Note: Please include your name as registered with NFFS if you decide to dedicate the contribution to a different person or business.

Bill Vanderbeek billvanderbeek@yahoo.com
 2017 NFFS Symposium
 5900 Sunset Ridge Ct.
 Reno, NV 89511



2017 Symposium

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Make checks payable to NFFS – Minimum donation \$60 (\$75 Canada & Mexico, \$80 foreign).
 Place this portion of the letter and your check in the pre-addressed envelope, **put a stamp on it and mail today!**