



The Presidents' Corner

by Mickey Breunig, President -LMAC



There is never much flying at the field in January but we always make sure to get some flights in on New Years Day, no matter what. The forecast for New Years Day was a high of 19 degrees.

The week between Christmas and New Years I had several calls, some asking if we were canceling the Numb Thumbs and some telling me we wouldn't have more than two or three people show up. One of the calls was from someone I have seen fly in the worst conditions and even they were skeptical. We still had event, as scheduled.

Several people showed up and I heard several flights. I say I heard because I only saw Bijan's flight as well as my own. The rest of the time, I was huddled up in the tent with the heater trying to stay warm. I do have a little sense. If you got in more than one flight, my hat is off to you. I hear the forecast for the middle of this week is in the mid 60s. I'll try to get my second flight in then.



In the upcoming meeting this Thursday we will be presenting the budget for 2018. If you have any questions how the clubs money is spent, the meeting will be very informative.



See you there.

Michael Breunig

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Minutes from Dec. 14, 2017

by John Royalty



The club meeting was held on Tuesday, December 14 at Morning Point Senior Center, 150 Shoreside Dr. Lexington, KY

- Meeting was called to order at 7:07pm by Mickey Breunig
- Minutes of December meeting posted in the monthly newsletter. Motion to approve made by Mikey Breunig, seconded by Joe Woods, and approved by vote
- Treasurer's Report was presented by Carroll Ware. Motion to approve by Mickey Breunig, seconded by Joe Woods and approved by vote. There are 120 paid members.
- Safety Report was presented by Mike Lambert, no accidents to report.

Old Business

- Combination Padlock Discussion switch will take place in early 2018. Treasurer will collect all keys from old padlock.
- Video Camera Discussion, further research is being done.
- Airfield Repairs Discussion, siding on shed and shelter will be done in 2018.
- Swap Meet update given by Joe Woods, details of discussion were published in December Newsletter

New Business

- Numb Thumb Fly In January 1. Motion was made to budget \$70.00 for Chili and Hot Dogs, Propane by Mickey Breunig, seconded by Gayle Moore and approved by vote.
- Discussion about having Club Luncheon on a Saturday in March.
- Discussion about bring back Mall Show exhibit to get new members and promote club.
- Dues can now be paid by PayPal, details can be found in December Newsletter.
- Fall Classic Proceeds Donations were discussed and motion was made to donate \$1000 to Kids Cancer Alliance and \$1000 to Easter Seals Cardinal Hill Foundation. These are the same amounts as last years donations. Motion made by Curtis Adams, seconded by Carrol Ware and approved by vote.
- Motion made to adjourn meeting by John Royalty at 8:26pm, seconded by Mickey Breunig and approved by vote.

The next club meeting will be at Morning Pointe Senior Center on Thursday, January 11 at 7:00pm



Treasurer's Report

by Carroll Ware, Treasurer



There are 120 paid up members

Dues information and forms, click on this link

<http://www.lmacky.org/membership.html>

Future Airfield Maintenance Accrual Account \$3,750.00
and I will be moving \$1250 from our general account to this account in January.

Educational Savings Account Balance..... \$621.77
Funds provided by the Lex. City Council for use in Fayette County School programs.



Income and Expense Report

Date	Num	Transaction	Payment	C	Deposit	Balance
12/4/2017	debit	By-pass Rental cat: Utilities:Portable Restrooms	80.00			12,020.44
12/12/2017	EFT	KU cat: Utilities:Gas & Electric	38.86			11,981.58
12/14/2017	2464	JOE WOODS cat: Swap Meet/Expences	66.12			11,915.46
12/15/2017	DEP	Deposit cat: Membership Dues And Keys memo: Joe Woods Dues			66.12	11,981.58
12/24/2017	EFT	By-pass Rental cat: Utilities:Portable Restrooms	80.00			11,901.58
12/26/2017	2465	KIDS CANCER ALLIANCE cat: Charity	1,000.00			10,901.58
12/26/2017	2466	EASTER SEAL CARDINAL HILL cat: Charity	1,000.00			9,901.58

Mickey B and Carroll will be presenting the budget on Thursday, January 11th club meeting.

Carroll will bring copies for everyone to view.

Numb Thumbs Crew from Jan. 1, 2018

The Numb Thumbs Fly In proved to be numbing 8 degrees on Jan. 1. A few brave souls came out and bored holes in the sky. From left to right, Matt Hanson, Lester Ware, Jerry Fisher, Carrol Ware, Martin Wienstock, Mickey Breunig in front. Picture taken by Bijan(Jason) Salehi. There were many more not pictured in group photo, I have included several pictures from that day at the field.





Model of the Month



David purchased at Garage Sale. Repaired elevator, New vertical stabilizer (rudder) – own design, New front hatch, Removed oil with K2R carpet cleaner and prepped with Balsarite, Removed CA hinges – replaced with pinned hinges, Special tool made for window's corners.

Specs:

Wingspan = 57"

Length = 46"

Engine = Evolution 40

Radio = Spektrum with converted Airtronics servos

Covering = neon Monokote

Congratulations to David Price on winning the Coyote Hobbies gift certificate !





Blast from the Past

by David J. Price

This series of articles will present advertisements from vintage modeling magazines. The intent is to illustrate technological advances that have taken place in our hobby. For some, it will bring back memories, for newcomers it will present a piece of history of radio control model aviation.

Here is an advertisement from the June 1959 issue of Model Airplane News for Missile Mist fuel. At the time, Missile Mist was one the best fuels. How about \$5.50 per gallon?



IT'S HERE ...NOW!

the ULTRA of TODAY'S model fuels . . .
superlative quality . . . performance
the NEW

MISSILE MIST

FORMULA
This fuel is a scientific blend of these high quality ingredients . . .

CASTOR OIL
first pressing, filtered

METHANOL

NITROMETHANE

PROPYLENE OXIDE

SYNTHETIC LUBRICANTS

You will find this fuel especially suited to the following motors:

FOX 09, 15 and 19

FOX COMBAT SPECIAL

McCOY 29 and 35

TORPEDO 19, 29 and 35

custom blended for high compression model motors gives you

MORE POWER - QUICK STARTING

COOL BURNING - LESS SENSITIVITY

to mixtures and weather conditions -

GREATER ECONOMY

MISSILE MIST, the new liquid propellant, contains perfectly matched components. This was achieved by first testing, in comparative flight operations, nearly all model airplane fuels on the market as well as the favorite mixes of many well-known modelers. MISSILE MIST fills all the needs of the most demanding experts and is designed to give the finest performance with all medium and high compression motors . . . a truly premium fuel at a non-premium price. You will find MISSILE MIST superior in the world of model airplane fuels. Every can of MISSILE MIST is guaranteed to give you complete satisfaction.

TRY IT! Ask for it by name — the New Champion MISSILE MIST liquid propellant — at your Hobby Shop.

PRICES

Pints **95¢**

Quarts **\$1.69**

Gallons **\$5.50**

**SATISFACTION
GUARANTEED**

CHAMPION PRODUCTS

FORT SMITH, ARKANSAS

Embraer Tucano

by Paul Bail



The first year I attended Jets Over Kentucky I was fascinated to find, among all the high-powered swept wing jets, a red aircraft with a conventional-looking airplane configuration and a turboprop motor – a jet prop. It was expertly piloted by Boli Muentes from Lake Worth, Florida who is actually a commercial airline pilot. His RCUniverse ID is “bevar”. What I found especially interesting about this plane was that it seemed like he flew the plane inverted more than he flew it upright! It’s a Composite ARF Tucano (carf-models.com) with a 110” wingspan and is powered by a JetCentral turboprop engine. It’s a “kerostart” engine which uses kerosene to start it. In the earlier days of RC jets they used propane to start their jet engines. Follow this link to watch Boli fly his Tucano: <https://www.youtube.com/watch?v=5k84MCoXCLs>





The full-scale Tucano

The full-scale **Embraer EMB 312 Tucano** is a [low-wing](#), [tandem](#)-seat, single-[turboprop](#), basic [trainer](#) with [counter-insurgency](#) capability developed in [Brazil](#). The [Brazilian Air Force](#) sponsored the EMB-312 project at the end of 1978. Design and development work began in 1979 on a low-cost, relatively simple new basic trainer with innovative features which eventually became the international standard for basic training aircraft.^[4] The [prototype](#) first flew in 1980, and initial production units were delivered in 1983.

General characteristics

- **Crew:** 2
- **Length:** 9.86 m (32 ft 4 in)
- **Wingspan:** 11.14 m (36 ft 6 in)
- **Height:** 3.4 m (11 ft 2 in)
- **Wing area:** 19.4 m² (209 sq ft)
- **Empty weight:** 1,810 kg (3,991 lb)
- **Max. takeoff weight:** 3,175 kg (7,000 lb)
- **Internal fuel:** 694 litres (183 US gal)^[43] (152.7 IMPgal)
- **Powerplant:** 1 × [Pratt & Whitney Canada PT6A-25C turboprop](#), 552 kW (750 hp) ^[123]

Performance

- **Never exceed speed**: 539 km/h (291 kts, 335 mph)
- **Maximum speed**: 458 km/h (247 [kt](#), 285 mph) at 4,115 metres (13,501 ft)
- **Cruise speed**: 441 km/h (238 kt, 274 mph) at 3,350 metres (10,990 ft)
- **Stall speed**: 124 km/h (67 kt, 77 mph)
- **Range**: 1,916 km (1,034 [NM](#), 1,190 smi) on internal fuel
- **G limits**: +6/-3
- **Endurance**: 9hrs^[44]
- **Service ceiling**: 8,750 m (28,700 ft)
- **Rate of climb**: 1,900 ft/min (9.65 m/s)
- **Wing loading**: 164 kg/m² (33.5 lb/ft²)

Armament

- **Guns:**
 - **Gun pods**:
 - AN/M-B machine gun
 - 12,7 mm machine gun
 - 7,62 mm machine gun (500 rounds)
 - **Rocket Machine Gun pod**:
 - RMP LC with a 12.7mm [M3P](#) and (4x) 70 mm^[124]
- **Hardpoints**: 4 under-wing pylons with a capacity of 1,000 kg (2,200 lb)
- **Rockets:**
 - 127 mm [HVAR](#) ground rockets
 - **Rocket pods**:
 - SBAT (7x) 37 mm
 - SBAT (7x) 70 mm
- **Bombs:**
 - **General-purpose bomb**:
 - [Mk 81](#)
 - [Mk 82](#)^[10]
 - **Practice bomb**:
 - MK 76 (20 lb)
- **Others:**
 - **Ferry tanks**: 2x 660 litres (170 US gal)^[10] or 330 litres (87 US gal)^[125]



Afghan Air Force Super Tucano (a stretched Tucano)



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Angola



Argentina



Brazil



Egypt



Colombia



France



Honduras



Iran



Iraq



Mauritania



Paraguay



Peru



Venezuela

Air Forces using the Tucano

The Tucano is operated by air forces in Central America, South America, Africa, Egypt, France, Iran, Iraq, Afghanistan, and the United Kingdom. The United States does not operate the Tucano but instead uses the Beechcraft T-6 Texan II which is similar in configuration and performance

Precisioncutkits and Sierra Giant Retractable Landing Gear

Back in mid November, I ordered a Tucano full wood kit, cowl, and canopy based on Don Smith plans from precisioncutkits in New Jersey. ETA was mid-December but Larry at precisioncutkits says he was very busy with orders during the holiday season and his laser cutting equipment was down for maintenance. Larry assures me I'll receive the kit by the end of January. I've spoken with Darryl at Sierra Giant about fabricating a set of landing gear for the Tucano and he says: "I can make you a set of landing gear for the Tucano that are as scale looking as you want". That, to me, means it's going to cost me lotz of m-o-n-e-y. If I could get a set of landing gear that looked approximately like Tucano gear ... for between \$500 - \$600 ... that would be ok. At one point I thought I heard him say \$800 +. Ouch. Hey – I'm retired! I can't afford stuff like that!!

The Motor

The plane, as built according to the Don Smith plans, has the following specifications:

Scale: 1/5

Wingspan: 86"

Length: 76"

Wing Area: 1173 sq inches

Power: 1.5 to 2.3 cubic inches 2 cycle (24.58 cc to 37.69 cc)

Weight is expected to be approximately 22 lbs.

Those of you who have seen my planes know that ALL of them are powered by electric motors ... and this one will be no different I plan on using an EFlite Power 180 (approximately 30cc), 10S Lipo, 100 amp speed control. If that works well I may replace the EFlite Power 180 with a Rimfire 50cc electric motor powered by a 12S Lipo with a Castle Creations 160 amp ESC. The last time I overpowered an electric airplane with a HUGE motor ... it didn't turn out well so I gotta be careful this time.

This is the paint scheme I'm fond of ... for now:



Cartoon Corner



Next LMAC Club Meeting:
Thursday, Jan 11 at 7:00 PM

Meeting Location:

**Morning Pointe Senior Center
 150 Shoreside Dr, Lexington, KY**

**(Go East on Richmond Rd, past Man-o-War Rd. Shoreside Dr. is on right
 before reaching Jacobson Park in East Lexington)**

Visitors are Welcome !!

2018 Club Officers

President	-Mickey Breunig	mbreunig@windstream.net
Vice President	-Paul Bail	pbailjr@yahoo.com
Secretary	-Jim Newberry	jjlexky@yahoo.com
Treasurer	-Carroll Ware	carroll.ware@gmail.com
Safety Officer	-Mike Lambert	mikeandme1081@yahoo.com
Senior Advisor	-Gayle Moore	p51moore@yahoo.com
News Editor	-John Royalty	royaltyj1@twc.com
Training Coord.	-David Price	dprice@lexingtonky.gov

**Thanks to Coyote Hobbies for their support to
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We are Lexington's only family-owned brick and mortar hobby shop! Our primary focus is on remote control vehicles of all types. We offer service and parts for airplanes, helicopters, cars, trucks, drones, as well as 1/24 drag slot cars. All of our staff participates directly in the hobby in some form or fashion. Come see us for all your R/C hobby needs.