

the

MONITOR

April The MRCS Officers 2012

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<b>Newsletter Editor:</b> Ken Myers	<b>The Next Meeting:</b> <b>Date:</b> Wednesday, April 4, <b>Time:</b> 7:30 p.m.	

**What's In This Issue:**  
Guest Speaker: Larry Markey, "Jet Turbines" – The March Meeting –  
March Show and Tell – Announcing the 2012 Mid-Am – Upcoming Events

**March Meeting**

The 7:00 video was an excellent one on the Sonex Aircraft Homebuilt. Very interesting!

**Jet Turbines**

Presented By Larry Markey

Larry began his presentation by talking about his experiences flying his full-size "Cub" to Florida so that he'd have something to fly while he was down there.

Larry has built seven jet turbine powered models so far. He noted that the Bob Violett Bobcat is a pretty fast one even though it is described as a turbine jet trainer.

A turbine waiver is required by the AMA to fly turbines. There are flight and safety requirements that must be met. We have several club members that can help interested members get their waiver.

The first successful turbines were flown in England in 1983. The fuel used then was propane and the flight duration was short.

The turbine jet speed record is 337 mph, which was set outside the USA. In the US, turbine powered jets are limited to 200 mph per AMA guidelines.

There are several requirements when flying turbines. A cell phone with the fire department programed in, 5 gallons of water and a water fire extinguisher and a halon fire extinguisher are just a few of the requirements.

Everything about the power system is controlled by an onboard computer. A fail safe must shut off the turbine within 2 seconds of loss of the radio signal.

Flying a jet is different since there is no prop blast. It really needs to be up to flying speed to take off.

Throttle lag used to be a big deal, but with the improvements of the power system, they are down to 2 or 3 second lag.

The jet runs on kerosine or jet A fuel. The smaller the turbine, the higher the

**Helicopter Frequencies**  
21,27,29,39, 41  
**Sailplane Frequencies**  
11, 12

RPM that it runs at.



Jets typically fly 6 to 8 minute flights. Turbine engined airframes experience very little vibration. They are extremely reliable, but the fuel system is extremely important and fuel flow is critical.

The whole engine is computer controlled on both the start up and shut down.

Engine mounting is actually easier than a glow or gas engine.

Entry into to turbine power is much easier and a bit less expensive than it used to be.

### The March Meeting

**Arthur Deane** started the meeting noting that we needed a change to the by-laws to allow for the position of three directors at large for our non-profit status with the state of Michigan. A vote was taken and the By-Laws were amended to allow for the three new positions.

**Bill Brown, Rich Sievert** and **Jim Lapham** were nominated and elected to the Directors at Large positions.

**Lynn Morgan** noted that we now have 67 members. We are about 5% down on the membership from last year but still close. We still need more, so be sure to keep an eye out for new prospects. Dues with the \$25 re-initiation fee are now in effect.

**Scott Rellinger** gave the treasurer's report based on the review by the officers, which was lead by Midwest president Arthur Deane.

Scott explained the new financial procedures we will be using.

**Arthur** noted that we need 70 paying members to break even. Unfortunately, our membership is steadily declining.

Road work will be required this spring will use quite a bit of the budget. The Friends of the Field donations help a lot and is very much appreciated.

**Bruce Ferns** told us about the road going into the field. We found that some folks have been using our road to get to the back of the property to target shoot. To try and discourage them, there is now a lock on the gate.



### March Show and Tell

**Rudi Reinhard** brought in his Micro Flash II F5B Hotliner ARF. It is from Royal Model and spans 59" with 340 sq.in. of wing area. It weighs in at 41 ounces for an area wing loading of 17.4 oz./sq.ft. and a wing cube loading of 11.3 oz./cu.ft. The power system consists of a Hacker B40-8S geared 4.4:1, Castle Creations Phoenix Ice Lite 75-amp ESC, a 3S1P 25C 2700mAh Li-Poly and Aeronaut CAM 13x6 prop. Radio system power is provided to the Spektrum AR7000 receiver by the switching BEC in the ESC and is directed to 5 Spektrum A7020MG servos. It should be a really fast plane!

**Mike Benjamin**, along with his daughter **Leah**, Midwest's newest junior member, showed off his new quick little electric. It is set up the the same power system as the Rifle and should really move out! It is

all stock with good servos. Mike was pleased with the quality.



**Ron Milon** brought in his E-flite Habu 32 DF (ducted fan) ARF. It is set up per Horizon Hobbies' recommendations.

<http://www.horizonhobby.com/products/habu-32-df-arf-EFL8075>

His features a 6S1P 5000mAh Li-Poly with retracts and flaps.



**Announcing: Mid-America Electric Flies 2012**

At the 7 Mile Road MRCS Field  
5th Year at This MRCS Location!  
AMA Sanctioned

**Saturday, July 7 & Sunday, July 8, 2012**

Hosted by the:  
**Ann Arbor Falcons and Electric Flyers Only**

Flying Site Provided by the:  
**Midwest R/C Society**

Contest Directors are:

**Ken Myers** phone (248) 669-8124 or  
kmyersefo@theampeer.org

<http://www.theampeer.org> for updates & info

**Keith Shaw** (734) 973-6309

Flying both days at the Midwest R/C Society Flying Field - 7 Mile Rd., Salem Twp., MI

Registration: 9 A.M. both days

Flying from 10 A.M. to 5 P.M. Sat. & 10 A.M. to 3 P.M. Sunday

**Pilot Entry Fee \$15 a day or \$25 both days**

**Parking Donation Requested from Spectators**

**Saturday's Awards**

Best Scale

Most Beautiful

Best Ducted Fan

Best Sport Plane

CD's Choice

**Sunday's Awards**

Best Scale

Most Beautiful

Best Mini-Electric

Best Multi-motor

CD's Choice

Planes Must Fly To Be Considered for Any Award

Saturday's & Sunday's Awards:

Plaques for 1st in each category

**Open Flying Possible on Friday  
Night Flying Possible, Weather Permitting,  
Friday & Saturday Nights**

Refreshments available at the field both days.

Potluck picnic at the field on Saturday evening.

Come and join us for two days of fun and relaxed electric flying.

Come, Look, Listen, Learn - Fly Electric - Fly the Future!

**Merchandise drawing for ALL entrants**

To change your email address contact Ken Myers at [kmyersefo@mac.com](mailto:kmyersefo@mac.com)

The 2012 membership application is available at the club Web site, <http://www.midwestrcsociety.org>, for downloading with the link on the homepage.

**IMPORTANT: Channels 36 & 56 May NOT be used at the 7 Mile Rd. Field**

**Upcoming Events:**

**April 4, Wednesday** Midwest monthly meeting. Aviation video at 7 p.m. followed at 7:30 by meeting.

**April 11** Wednesday, 7 p.m. **Horizon Hobby** Pre-Toledo Visit, Ultimate Soccer Arenas, South Blvd., west of Opdyke, hosted by the Skymasters, NO CHARGE, Everyone Welcome, Questions - Joe Hass, 248-321-7934

**April 13, 14, 15** 58th Weak Signals Toledo RC Expo, Seagate Centre, Toledo, OH  
<http://www.toledoshow.com>

**Li-Poly Battery For Sale**

**Thunderpower 4S1P 1350mah 20C.** Used once. Too much for a fan unit in an EDF. Was \$45 new, will sell for \$30.

I am also looking for some 6S1P packs, 45C or higher. Its for an EDF.

Michael Cohen [precisionaero@hotmail.com](mailto:precisionaero@hotmail.com) or 734-478-7812

**Congratulations George Lemieux!**

Yes, that is our own George with his Headwind on p.83 of the March 2012 *Model Aviation*. Beautiful plane. Well done!

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Midwest RC Society Monitor  
Editor: Ken Myers  
1911 Bradshaw Ct.  
Commerce Twp., MI 48390

**The Next Meeting:**

**Date:** Wednesday, April 4, 2012

**Time:** 7:30 p.m. – Video starts at 7:00

**Place:** EAA building, Mettetal Airport,  
Plymouth, MI