

Syracuse Thunderbirds Aero Radio Society



Plane Propwash



July 2017

Charter 473

The Next General Meeting will be August 9th, at 7:00 at the STARS field.

2017 Officers

[Ken Kadish, President](#)
[Paul Volcko, Vice President](#)
[Herb Moore, Treasurer](#)
[Jeff Wolsley, Secretary](#)
[Peter Seiffert, Safety Officer](#)

Directors:
Peter Seiffert, 2007-08
Herb Moore, 2014
Phil Morgan *2011-2013

Volunteer Staff:
[Jeff Wolsley, Propwash Editor](#)
[Michael Graham, SYG Administrator/Club Historian](#)
[Paul Volcko, Webmaster](#)
Ted Anderson, Field Committee
[Mike O'Neill, Facebook Admin](#)

The next STARS meeting will be at the STARS Field, August 9th, at 7:00. As a reminder, the meeting is always the second Wednesday of the month. The STARS monthly meeting will meet at the STARS Field until fall 2017.

STARS Airshow Coming Up!

Our 38th Annual Air Show is right around the corner on Sunday, September 3rd, and I urge and encourage every member, friends, and family to come out to the field and enjoy a fun filled day of flying, eating, and socializing.

We have some great raffle prizes, and there's always a chance to hit it big with the 50-50 raffles. Setup is Saturday morning, September 2nd at 9:00 a.m., and volunteers are always needed and appreciated both for setup and the Air Show.

The Air Show starts at 10:00 am Sunday and runs until 4:30 pm.

Paul Volcko is currently working hard to make the second ftp quad racing demonstration a reality. Last year turned out to be a fun and interesting event for both pilots and spectators. There is no firm date as of yet, but the first weekend in October is the most likely possibility. As was done last

year, this will be a half day event, and the field will be restricted from approximately 9:00 a.m. to 1:00 p.m.

Our finances are stable, meaning that our cash flow is meeting our current expenses. A strong concession showing from the air show will go a long way toward creating a comfortable buffer for unforeseen expenses.

Our annual election for club officers is coming up at the November meeting.

If you wish to nominate a person for a Club office, please remember that nominations must be submitted not later than October 11 in order for us to give proper and timely notice of candidates to the voting membership.

Fly onward....

Ken

Secretary's Report: Jeff Wolsley

The July STARS regular meeting was called to order at 7:01. There were 15 Open Members, 5 Associate, 2 guest, and 0 youth member in attendance. Yep that's right- same as last month!

Secretary's Report:

The Secretary's Report from the June meeting was accepted as printed in the May Propwash. Motion by Dave Jewell and 2nd by Peter Seiffert. Carried.

Treasurer's Report: Herb Moore

Revenue intake is down due to poor food sales at the flight schools. This is due to the constant poor weather. Motion by Lloyd Darrohn and 2nd by Peter Seiffert. Carried.

Committee Reports:

Field Committee: Ted Anderson

There's been enough of a break in the weather to get caught up on mowing. There's standing water in some of the low areas on and around the field. The parking area to the south of the club house is especially wet.

The shipping container idea is out for replacing the old storage shed at the end of the field. Another idea was floated to have a separate building with an overhead door facing the parking area. The new storage building would be located behind the existing garage structure.

Permitting with the town for any type of building needs to be researched.

Discussion tabled until next year.

Safety Report: Peter Seiffert

When flying in the rain, remember that your transmitter is not waterproof. Neither are most aircraft or on board electronic equipment. If it is thundering and lightning, land immediately and get off the field.

Flight School: Bob Rowe

STARS membership is not required to participate in flight schools.

Fixed Wing- The weather was good and there were 6 pilots there last Thursday.

Heli Night- The helis got off the ground last night.

STARS Web Site: Paul Volcko

Paul is in the process of moving the site. The new address is www.cnystars.com

Please view the field cam at:

<http://www.amadistrictiistars.org/cameras.php>

This is an infrared cam so you can see some activity at night.

Old Business:

Future Planning:

Replacement of the shed was tabled until next year.

Big Bird Giant Scale:

First night- May 17. Then the first and third Wednesday each month thereafter.

Control Line:

Mike O'Neil ó Please don't park on the control line circle.

Facebook:

The STARS now have a Facebook page. There are 99 members at this time. [Mike O'Neil](#) is the administrator.

New Business:

Heli Jam 2017:

Overall participation was down. There were 11 pilots registered.

Look at changing to a dedicated heli weekend for next year?

STARS Airshow:

The 2017 STARS Airshow is September 3rd. Volunteers are needed for all positions. We need a special volunteer(s) to organize and direct the group responsible for cooking and vending throughout the duration of the Airshow. The idea of using an outside food service was discussed and rejected.

Quad Racing:

FTP Quad Racing will be back this fall. Anticipating the first weekend in October. This will be a ½ day event- 9:00-

2018 Club Officers:

Ken again reminded everyone that it's not too early to start thinking about becoming an officer for 2018. All officer positions are available. If you are interested, please contact one of the current officers. The only prerequisite is you must be a full member in good standing. Officer elections are held at the November meeting.

Guest Columnist:

The idea of a guest columnist was discussed. The subject matter will focus on anything related to our activities. The column will appear right here in the Propwash.

Club Jacket Order:

Phil Morgan has put the jacket orders on hold temporarily due to a vendor issue.

Club Hat Order:

Bob Rowe mentioned that anyone interested in a new STARS Club Hat can pick one up at Papa's Sports (315-455-7272), 1926 Park Street (at Park and Hiawatha). Bob says they have the STARS club logo in their inventory. They have many different styles of hats. Just ask for the STARS logo on it.

New Members:

Three new members were voted in at the June meeting.

Scott Nieforth OPEN

Melissa Nieforth FAMILY

Thomas Coon ASSOCIATE

Motion to accept by Mike Graham and 2nd by Herb Moore. Carried.

Adjournment:

The July regular monthly meeting of the STARS was adjourned at 7:26pm.

Secretary, Jeff Wolsley

ARCS Annual Fun Fly

**Saturday, August 19, 2017
Noon 'til 4PM**

In celebration of National Model Aviation Day

**At the ARCS Field, Marcellus Airport, 4910 Limeledge Rd.
Marcellus, NY 13108**

GPS Coordinates: N 43°00.634', W 076°21.142' (WGS 84)



Club will provide Burgers, Dogs, Sodas

General Rules:

- AMA Membership required
- 93 dB at 3 meters sound limit. We'll be happy to check your aircraft.
- Radio impound in effect for 72 MHz. Frequency pin required before turning on transmitter
- No flying over pits or full-size runway
- No taxiing into pits
- No more than 3 planes in the air at a time

There will be open flying throughout the day. No competitive events are planned.

Airplane Raffle: Ares Alara, Donated by Bruce Throne. Winner will be drawn!

When arriving at the airport, be sure to stay to the right and follow the gravel road to the model field. Yield to any full-size airplane traffic.

Questions?

Herb Ziegler

315-857-6266

herbz1957@yahoo.com

Generous contributors and sponsors of the 2017 NEAT Fair!



Northeast
Electric
Aircraft
Technology

Sept. 14, 15, 16, 17 2017

*The nations largest gathering of electric model aircraft held
in the Catskill mountains in lower NY state in mid September.*





Charter 473

AMA Sanctioned

S.T.A.R.S.



38th Annual

MODEL AIR SHOW



**Flying Radio Controlled Model Aircraft
at the**

STARS Field in Phoenix, NY (See map on back)



*Pilots - All types of aircraft are invited!!
If you bring it, fly it!!*

**Food & Fun for the Entire Family
50/50 Raffle & Swap Shop, too!**



Sunday, September 3, 2017

10 AM to 4:30 PM

Donation of \$5.00 per car



Numerous prizes will be raffled at the Air Show - including a complete, ready-to-fly, trainer aircraft

For more information, contact Bob Rowe at 315-474-8428 or visit us at our website: www.amadistrictiistars.org

Calendar of Events for August-September (and beyond) Events: *Editor's Note- Also watch your e-mail for sudden changes to events like cancellations or re-scheduling due to weather.*

August 5 Vernon, NY Paradise RC Fun Fly **September 14-17** NEAT Fair
August 19 ARCS Fun Fly, Marcellus Airport
September 3 STARS Airshow

The indoor flying schedule is coming to a close for spring 2017. Some locations are still open.

Camillus Indoor Aviators (CIA) Indoor flying at First Baptist Church located at 1960 State Route 5 in Elbridge Tuesday and Friday 6:00 to 9:00 and the first Saturday of each month 4:00 to 9:00 (2.4GHz only)

CNY Indoor Flying Society Please visit the web page for details before attending. Sacred Heart Catholic Church on Route 11, Just South of Cicero, NY. Tuesdays and Thursdays 12:30-4:00. Saturdays 6:00-9:00.

Walt's Hobby Town- Indoor flying will be available at Walt's during normal business hours. No flying on Saturday or Monday, Tuesday- Thursday 9:00 to 6:30, Friday 8:00 to 4:30. Flying ends 1/2 hour before closing time. Please contact Walt's Hobby Town for further details and landing fees.

MexAir R/C Indoor flying starting October 14 thru April, Friday night from 6pm-9pm at the Mexico Elementary School located in Mexico, NY. There is a \$5 charge for any adults who wish to fly. Anyone ages 19 or below fly for free!!

STARS Flight Schools-
Flight Schools are in full swing!

Fixed wing flight school runs Thursdays at 5:30 at the STARS field.

Heli night is on Tuesdays and starts at 5:00.

It's never too late to join a flight school.

Big Bird- The big bird flyers formal sessions are over for 2016. See you in the spring!

Please visit the [AMA District II](#) website or the Event Section in the back of Model Aviation for additional information on these and other events.



Just to pass along a passing...



THE VILLAGES - Lon James Sauter, 70, passed from this life Wednesday, July 19, 2017. Born in Lowville, NY and raised in Beaver Falls, NY. He was the son of the late Floyd and Vivian (Hall) Sauter. Lon was a graduate of Onodaga Community College, Syracuse, NY. He was employed by Xerox Corp for twenty-two years as a field manager. During his employment with Xerox Corporation he also owned & operated Lon's RC Service (for radio controlled model airplanes), and became a license pilot for full size aircraft. Following his employment with Xerox Corp he started The Flight School in Fulton, NY. He then became a pilot examiner employed by the FAA. Lon loved everything aviation and enjoyed flying his own aircraft. Lon came to The Villages from Corinth, TX in March of this year. He is **survived** by his wife of 50 years, Marge (Paulis) Sauter and brothers, Loren & his wife Candace, Jeffrey & his wife Darlene, and David.

Lon Sauter passed away July 19th. He was just 70. For those of you who don't remember or know Lon, he was a long time member of the STARS. I believe that I'm correct that Lon was a founding member and was one of the people responsible for getting and transforming the property from the field that it was into the first incarnation that we call STARS Field today.

Lon served as a STARS President on many occasions. He taught building skills, radio installation tricks, and flying. We cut foam wings together one night for a club plane project. I still have the cores but don't remember what happened to the plans.

Lon ran Lon's R/C Service from his basement in Mattydale in the 1970's and then the store on Rabbit Lane in Phoenix into the 1990's. He repaired R/C equipment, and sold kits and parts for many years. Lon was the frequency coordinator for a time in our area back when we flew on 27 and 72mhz equipment. He was

instrumental in keeping the frequencies straight through all the FCC changes and getting equipment tuned and "GOLD" stickered. That meant that the transmitter was broadcasting tight enough not to bleed over into that adjacent frequencies.

I first met Lon (and Marge) in the spring of 1977. Lon got me straightened out after buying some dud R/C equipment. I bought my first 72 mhz World Expert transmitter, receiver, and servos from Lon just before we moved to Texas later that same year. It wasn't until we moved back in 1980 that I actually got to fly with that equipment.

I always remember Lon put "Lon ♥ Marge" on his planes. He said it prevented him from crashing. Lon could be a pretty intense guy at times. He's the only person that I ever saw actually ask someone to leave the club for a serious infraction. He was right though. I still remember the red van with the rolling biplane airbrushed on the hood and Lon's R/C Service on the side.

Lon left the hobby to pursue a career in full scale aircraft. The house on Rabbit Lane had a grass strip behind it and I guess that Lon planned it that way. He received his instrument rating and started teaching flying. Along the way Lon started doing check flights for the FAA. Dan Williams was one of Lon's students.

So this is some of the STARS history. Thanks for the education and the memories Lon... Thanks to Michael Graham for finding the pictures.



Lon 1984 with Molly

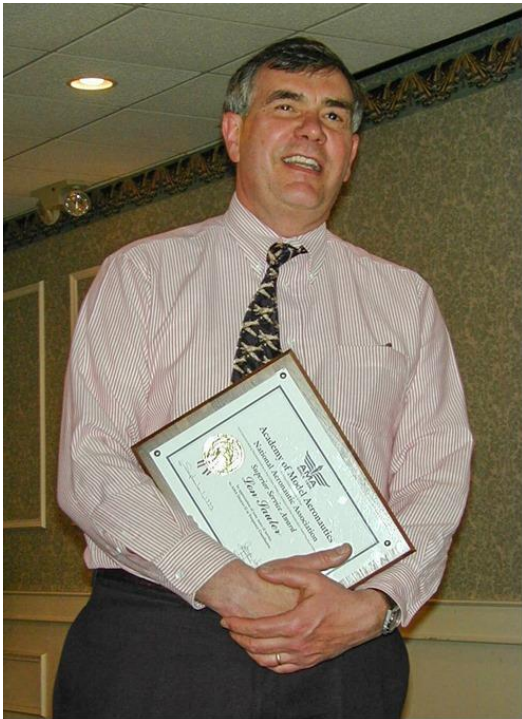


Lon in the doorway of one of the classrooms at the Westminster Presbyterian Church for a STARS winter meeting sometime in the 1980's.

I recognize a few faces here- Perry and Tony Valleriani, Phil Morgan, Dan Williams, Al Mortensen, Lon's wife Marge, Fran Worth, and Jack Jeffries.

Some of the current STARS members might remember some of the others in this photo.

Perry became a full scale pilot in Hawaii.



Lon received a Superior Service Award from the AMA in 2000 at the MAF.

Lon created the fixed wing flight school. Here's a page from the Feb. 1990 Propwash.

AT LAST

The following is a proposed program to train new pilots and perpetuate the training process. It has been my observation that one of the most frustrating parts of entering this hobby is the fact that it is very difficult to find someone to teach you to fly the model after you've built it. Those interested in participating in this program, either as instructors or students, please contact me by stopping in the shop or calling me at 695-2448. Instructors will be awarded an AMA instructor patch upon their first students successful completion of a flight test.
Lon Sauter

1990 STARS Flight Training Program

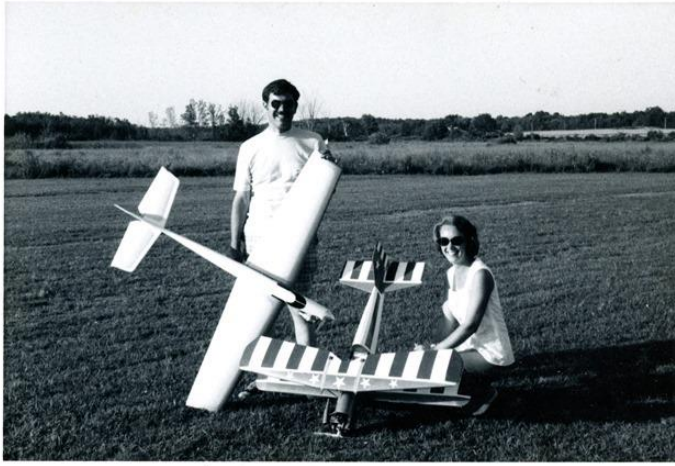
- * Every Wednesday evening 6:30pm from June 1 to August 30 (STARS field)
- * At least four instructors per session
- * All new modelers welcome, after six lessons non members will be asked to join STARS if openings are available
- * Each student will keep a log book (provided by STARS) to insure training continuity with instructor changes
- * Primary purpose to train pilots to take-off and land safely. Also to recruit new STARS club members.
- * There will be a graduation get together at the end of the flight training for graduates and instructors. Graduate will receive pilot wings.
- * Each graduate will be requested to train another beginner to perpetuate the student training process. He will then be awarded an AMA instructor patch.

STARS Flight Training Curriculum

1. Introduction to flight controls, inspect model for air worthiness, pre and post flight check out.
2. First flights concentrate on turns, level flight and keeping plane in front of student. Student is to fly as much as possible.
3. Practice slow flight, start flying approaches, recovery from unusual attitudes (stalls, diving turns, etc.).
4. Work on take-offs and continue 1 through 3.
5. Basic maneuvers to build confidence and continue 1 through 4.
6. Concentrate on final approach techniques and landings. Do repeated approaches to have student gain confidence.
7. Final flight test to consist of: Take-off, a series of simple maneuvers, a touch and go, and landing. Examiner to be an instructor other than students primary instructor.

THROUGH RAIN, SNOW, SLEET OR HAIL, THE MAILMAN GOES ON HIS APPOINTED ROUNDS; BUT HE CAN'T DELIVER IF THE ADDRESS IS WRONG. IF YOU MOVE, PLEASE ADVISE US OF YOUR NEW ADDRESS.

ANY MODEL AIRPLANE CLUB WISHING TO ADVERTISE A FORTHCOMING CONTEST OR EVENT CAN ACQUIRE A FULL PAGE AD FOR THE TRIFLING FEE OF \$2. A NOTICE IN THE CALENDAR OF EVENTS IS OF COURSE FREE.



*Lon and Marge the 1st STARS picnic July 5th 1975.
That's a Mach I and an Andrew's Aeromaster*

Lon with the Mach I.



STARS 2017- All photos courtesy of Mike Graham













S.T.A.R.S.

Flight Training Program



2017



When?

Every Thursday evening from 5:30 PM to Sunset
May 04, 2017 through September 07, 2017

Where?

At the S.T.A.R.S. field in Phoenix, New York
649 County Route 12, Pennellville, NY 13132
N43.23696, W76.24550

Who?

Anyone wanting to learn to fly powered R/C model airplanes!! You do not have to be a Club member and all lessons are free. Each student must furnish his/her own plane and radio equipment and also must hold a current membership in the Academy of Model Aeronautics aircraft association in order to fly.

PreFlight Workshop

Held at STARS Flying Field in Phoenix, NY
Thursday April 20, 2017 at 7 PM

Interested?

Contact:

SENIOR FLIGHT INSTRUCTOR: Bob Rowe (474-8428)

Syracuse Thunderbirds Aero Radio Society

Phoenix, NY

Charter 473



S.T.A.R.S. 2017 Helicopter & Multirotor Night

*All skill levels welcome, but must be an AMA member to fly
and provide your own outdoor capable Heli or Multirotor.*

Build help and flight instruction available.

**Tuesday evenings - April 18 to October 10
5PM until Dusk**

Come out and join us for fun, food and good flying

IMAA Big Bird Safety Checklist

Balance

Is the longitudinal center of gravity (for and aft) within the range shown on the plans?

Is the model balanced laterally (side to side)?

Alignment

Are all the flying surfaces at the proper angle relative to each other?

Are there any twists in the wing?

Do the wings and removable tailplane seat properly on the fuselage every time?

Is the engine set at the proper thrust angle as shown on the plans?

Control Surfaces

Are all control surfaces securely attached? (i.e., hinges glued, pinned). Pull on each one to test.

Are the control horns secured to the model?

Control Linkages

Have all the linkages been checked to be sure they are secure?

Are the clevises closed? (Keepers or fuel tubing should be fitted to ensure they stay closed)

Engine / Motor Mount Security and Operation

Are all engine mount screws tight, including mount to bulkhead if applicable?

Are the propeller bolts and/or spinner tight? If a single nut, is there a safety nut as well?

Does the throttle work without binding?

Does the throttle trim tab shut down the engine?

Has the propeller been balanced and checked for damage?

Are the propeller tips painted a contrasting color? (while not essential it makes the propeller much easier to see)

Has the engine been thoroughly test run? (engine idle and throttle up properly)

Is the fuel tank installed correctly? (i.e., carburetor at the same height as fuel tank, fuel tank clunk in proper position and moving freely, fuel lines in good condition and connected to the engine correctly)

Radio Equipment

Are the receiver and the battery securely mounted and padded with foam to protect from vibration and shock?

Are all the electrical connectors secure?

Is the receiver antenna fully extended and in good condition?

Are the batteries charged and in good condition (check under load with a volt meter if unsure)?

Are all servo securely fastened to the rails or trays?

Are servo arms firmly attached with screw in place?

Are all push rods firmly secured in servo arms (again keepers or fuel tubing should be fitted)?

Are the control throws in the correct direction with proper amount of deflection (as per plan)?

Rudder & tail wheel: Left stick should move the rear of the rudder and tail wheel to the left.

Nose wheel: Left stick should move the front of the nose wheel to the left

Aileron: left stick should move left aileron up and right down.

Elevator: Pulling back on the stick should move the back of the elevator up.

Canard: Pulling back on the stick (elevator) should make the front of the canard move up

Throttle: With trim set fully forward, pushing the stick forward should open throttle fully. With trim set fully backward, pulling the stick back should fully close the throttle.

Has a full range check been performed? (see below)

Undercarriage (where fitted)

Is the undercarriage firmly attached to airframe and the wheels securely retained?

Does aircraft taxi in a straight line?

General

Is the covering tight with no visible signs of damage?

Are the retaining bolts in place and secure?

Are all hatches, cowls and canopies secure?

Are all components structurally sound?

Is your name and contact details marked on the model somewhere easily visible? (in case it's lost)

Range Checking the radio

Verify frequency is available and mark it as yours if necessary.

Turn on transmitter check the correct model is selected (if applicable) and then turn on the receiver.

Important: make sure the transmitter aerial is down fully.

Ask someone to help and walk away from the model until signs of loss of control is apparent. If electric powered ensure that the range is not worse with the motor running.

Before EVERY flight:

Check the receiver battery pack to ensure enough charge for the flight intended.

Check for damage and the control throw direction of all surfaces.

Advertisements:



Store Hours:

Monday/Friday: 9:00am-9:00pm -- Tuesday/Wednesday/Thursday: 9:00am-6:00pm -- Saturday: 10:00am-5:00pm -- Sunday: 11:00am-5:00pm

Phone Number:

(315) 453-2291

waltshobby.com



Open 10-7 Tuesday thru Sunday.

315-532-6826

www.mexairrc.com

www.facebook.com/mexairrc

**Winner of AMA 2015 Hobby Shop Award
for signing up new AMA members.**

FOR SALE:

From Herb Ziegler over at the ARCS

Hi,

I got this message from one of our long time club members. Emil Cost is an excellent modeler and I'm sure his stuff is top notch.

Please pass this info on to your club members by whatever means you think would be best. Contact Emil directly if interested at the email address shown below.

Thanks!

Herb Ziegler- ARCS president

Herb,

I want to reduce the number of vintage models I have.

Can you put a notice of this in your next newsletter? Also, can you forward this information to the presidents of our local RC clubs?

Interested parties can receive the details of what is available by emailing me :

emiljcost@me.com

Thank you and know that I plan to take the Cavalier to our field and continue the ground testing when flying weather returns. If you want to know when I will do , this let me know and I will tell you in advance when.

Best regards,

Emil

Paul Volcko- from Robert Brown's estate

I've been in email contact with Lisa Brown regarding Robert Brown's RC estate. They've gone through everything and organized it and made a quick video (attached) to show what all there is. If you are interested in anything or would like to arrange to see something in person, please contact Lisa at lbrown33@twcny.rr.com.

Please visit the Southern Tier RC Swap Shop. Dan Luchaco has included me in his mailing list. This is the current edition. All contact information is included with the ads.

July 20th 2017.pdf Hobby Warranty
Contact List 2016.xls

If you want to list modeling items for sale, R/C services offered, or a really neat R/C web site, this would be a good spot. Free for members. Send your advertisement by e-mail to jwolsley@verizon.net. Please put STARS ADVERTISEMENT in the subject line.

Links-

New website to check out- <http://www.flyboyzblog.com/>

This site has articles pertaining to both full scale and model aircraft. Check it out.

Howard Blair found an interesting video from YouTube on micro flight

<http://www.youtube.com/watch?v=fuoFA2fKjEo&feature=fvst>

Tom Catalino pointed out this site recently. An excellent site for Lipo battery info-

<http://sites.google.com/site/tjinguytech/charging-how-tos/balance-connectors>

Peter Seiffert sent along the following web site- www.servodatabase.com/servos/all

Mike Graham has a torque conversion chart-



Servo Torque
Conversion Chart.pdf

Arming Switch Information-

AMPØ- Arming The Big Boys, by Greg Covey November 2007

http://www.rcuniverse.com/magazine/article_display.cfm?article_id=950

RunRyder- How To Make A Spark Arrestor for an ESC by Lucien Miller

<http://www.helifreak.com/archive/index.php/t-289393.html> look down to the post from gbidwell from 4-24-2011 0601am. That's the exact article that I have from RunRyder.

Note- Many of the newer ESCs have a built in spark arrestor. If you still see and hear the spark, this is a good idea to save the plugs.

The Link for the AMA is:

<http://www.modelaircraft.org/>

The link for the AMA DII Calendar is:

<http://www.amadistrictii.org>

The link for the club yahoo users group is:

http://groups.yahoo.com/grjwoup/stars_club_members/ (Don't forget to sign in)

The link for the STARS club home page at DII is

<http://www.amadistrictiistars.org/>

The link for the STARS club web cam is:

<http://www.amadistrictiistars.org/scam.html>

The Propwash News Letter is also available at YAHOO GROUPS. The current news letter and previous years/months are viewable and printable from there.

Please contact Mike Graham tanjmg82@aol.com to join the STARS Yahoo group. Send Mike an email asking to join from your preferred email account. Mike will then reply with an invite to join the group. The invitation contains the links and instructions necessary to join.



STARS Field Satellite photo



HOW DO I LEARN MORE?

Get ready to get schooled.

AMA Flight School is a free educational resource for anyone interested in unmanned aircraft systems (UAS) operation and model flying.

Designed to answer the question, "How do I...?", AMA Flight School provides information about topics such as:

- Battery and operational safety
- Building your own multicopter aircraft
- Travelling with your aircraft and batteries
- Participating in the Search and Rescue challenge with UAS4STEM.

Learn more at (www.uas4stem.org).

There's a great pilot in you.
Go find it!

www.amaflightschool.org



Welcome to the club.

The Academy of Model Aeronautics (AMA) is the largest model aviation organization in the world. At 175,000 members strong, we're standing behind you to give you the support and guidance you need to be successful and, most importantly, have a great time.

AMA members enjoy a suite of great benefits tailored to model pilots such as:

- Liability insurance
- Subscription to *Model Aviation* magazine
- Competition privileges
- Education and youth scholarships
- Flying site assistance

For more information, visit www.ModelAircraft.org.

THE MOST FUN YOU CAN HAVE (WITHOUT A LICENSE).

Flying is just for fun.

Currently, no individual or government agency may operate an unmanned aircraft system (UAS), commonly called a drone, in a commercial or public capacity without a Certificate of Authorization from the FAA.

Common examples of prohibited use include, but are not limited to:

- Real estate & wedding photography
- Inspection or surveying services
- Film or television production
- Search and rescue operations

Interested in commercial or public use flying?

There are options available to you through the Federal Aviation Administration (FAA).



For more information, visit www.KnowBeforeYouFly.org.



WE'RE YOUR GUIDE TO RESPONSIBLE FLYING.

Flying guidance provided by the Academy of Model Aeronautics, the world's largest model aviation organization.

KNOW FLY BEFORE YOU FLY Here's what you need to know.

Learn more at www.amaflightschool.org

1

law Obey local ordinances.

Some municipalities prohibit the operation of unmanned aircraft systems (UAS) in public spaces such as parks and school grounds.

Even if nothing is posted, it's good to check with local authorities before you fly in public spaces.



2

limits Fly within guidelines.

These include rules set forth by federal law and guidelines recommended by the Academy of Model Aeronautics (AMA).

- Do not fly above 400 feet.
- Do not fly anything heavier than 55 lbs.
- Do not fly beyond your line of sight.
- Do not fly in high winds or reduced visibility.
- Do not fly under the influence.
- Do not fly within 25 feet of bystanders.

3

surroundings Know the conditions.

Don't fly your UAS or model aircraft near bystanders or during emergency situations such as a wildfire, medical evacuation or search-and-rescue operation unless authorized by the proper authorities.

Watch for and avoid potential hazards in your environment such as:

- Manned aircraft
- Unprotected people
- Moving vehicles
- Roadways
- Private property
- Infrastructure
- Deteriorating weather



4

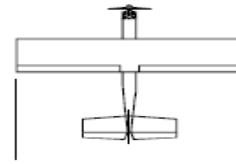
airspace Share the sky.

The Federal Aviation Administration (FAA) expects all unmanned aircraft systems (UAS) operators to:

- See and avoid manned aircraft
- Be aware of Temporary Flight Restrictions (TFRs) that affect the operation of UAS or remote controlled aircraft.
- Never fly within 5 miles of an airport without contacting airport authorities.



S.T.A.R.S. Field Rules



1. General:

- A. License: All pilots, students, and flying guests *must* have a current membership in a nationally recognized model aircraft association in order to fly. Those pilots participating in the Park Pilot Membership Program must fly models that weigh two pounds or less and be incapable of reaching speeds greater than 60 mph. They must be electric or rubber powered, or of any similar *quiet* means of propulsion.
- B. Spectators: Only those people essential to flight operations will be permitted in the pit area; all others will remain on the spectator side of the fence. Impound: All pilots, students, and flying guests must place their transmitter(s) in the impound area immediately upon arriving at the field.
- C. Vehicles: Vehicles will not be permitted *on* the flying field.
- D. Crash Debris: Pilots must retrieve all pieces of their aircraft after a crash. Particularly, attention must be made to obtaining all pieces of aircraft that land in the neighboring fields under cultivation.
- E. Trash: All members will take home their own trash.
- F. Alcoholic Beverages: Members will not consume alcoholic beverages prior to, nor during, participation in any *modeling* operations.
- G. Smoking: Smoking will not be permitted in the pit area or on the flight line.
- H. Mowing: Flying on the field will not be permitted if the field is being mowed or maintained.

2. Transmitters:

- A. Frequency Control (*For non 2.4 GHz transmitters only*): All members, students, and guests *must make use of the field frequency control system*. Each pilot will obtain the correct frequency flag (or pin) from the impound board and attach it to his/her transmitter before attempting to fly.
- B. Range Checks: Each pilot will conduct a successful radio equipment ground range check before flying a new or repaired aircraft and prior to each flying session.

3. Engines:

- A. All internal combustion engines run at the field will have a silencer (except for small displacements of .09 cubic inches or less).
- B. When running an engine in the pits, keep neighboring personnel behind the prop arc.

4. Flying:

- A. Boundaries: Flying over the pit area or the spectator side of the fence is prohibited, unless beyond the control of the pilot(s).
- B. Taxing: Taxing is prohibited in the pit area!
- C. Flying:
 - (1). Pilots will initiate their first turn after takeoff away from the pit and spectator areas.
 - (2). Engines will not be started before 9 AM Monday through Saturday and 11 AM on Sunday (**electrics may start at 10 AM**), unless approved by the **Event Director**.
 - (3). No more than three aircraft will be permitted in the air at one time.
 - (4). All flying will be conducted from the designated flight boxes.
 - (5). Hand launching of aircraft is prohibited from the pits.
 - (6). Flight operations will cease during electrical storms.

5. Guests:

- A. All guests must have a current membership in a nationally recognized model aircraft association in order to fly.

- B. Guests may fly at the field only with the approval of a member in good standing and only as long as a sponsoring member *remains at the field*. Guests will not fly unattended.
- C. A local guest will be allowed to fly at the field on three (3) separate occasions and then will be asked to join the Club.
- D. An out-of-town guest may make arrangements with the Club to fly at the field while visiting the area. The Club Officers and the Safety Officer will handle each out-of-town visitor on a case-by-case basis.
- E. *All guests are required to extend every courtesy to current members sharing the same flying frequency*. But when there is a conflict over who shall fly, the Club member will have the first option to fly. Both the guest and the members should use common sense while sharing the flight line or using the same radio frequencies.

6. RC Aircraft Utilizing "First Person View" Systems (AMA Document 550):

A. GENERAL:

- (1). FPV flying of radio control model aircraft by AMA members is allowed only for noncommercial purposes as a hobby/recreational and/or competition activity.
- (2). All FPV flights must be conducted in accordance with AMA's current National Model Aircraft Safety Code and any additional rules specific to the flying site/location.

B. OPERATIONS – REQUIREMENTS - LIMITATIONS:

- (1). AMA FPV novice pilots must use a buddy-box system with an FPV spotter while learning to fly FPV.
- (2). All FPV flights require an AMA FPV pilot to have an AMA FPV spotter next to him/ her maintaining VLOS with the FPV aircraft throughout its flight.
- (3). The FPV pilot must brief the FPV spotter on the FPV spotter's duties, communications and hand-over control procedures before FPV flight.
- (4). The AMA FPV spotter must communicate with the FPV pilot to ensure the FPV aircraft remains within VLOS, warning the FPV pilot of approaching aircraft, and when avoidance techniques are necessary.
- (5). The FPV spotter may at any time during an FPV flight acquire the transmitter from the FPV pilot and assume VLOS control of the aircraft.
- (6). If the FPV pilot experiences a problem due to a loss of video link, orientation, or is unable to safely fly, he/she must abandon FPV mode and fly VLOS or pass the RC transmitter to the FPV spotter to assume VLOS control of the aircraft.
- (7). Before initial FPV flight and after any flight system changes or repairs, FPV model aircraft must be test flown by conventional VLOS to determine that flight systems are working properly.
- (8). FPV model aircraft must use frequencies approved by the FCC for both the RC system and the wireless video system. Pilots must meet applicable FCC licensing requirements if they choose to operate the RC flight control system or the wireless video system on Amateur Band frequencies.

C. RANGE – ALTITUDE – WEIGHT – SPEED:

- (1). One of the requirements in Federal Law (Public Law 112-95 Sec 336 (c) (2) February 14, 2012) for model aircraft to be excluded from FAA regulations is that model aircraft be flown within VLOS of the operator.
- (2). Model aircraft flown using FPV must remain at or below 400 feet AGL when within 3 miles of an airport as specified in the AMA Safety Code.
- (3). Model aircraft flown FPV are limited to a weight (including fuel, batteries, and onboard FPV equipment) of 15 lbs. and a speed of 70 mph.

STARS

Field Protocol

Dedicated to responsible
RC fun with safety by
choice, not chance.

1. General:

- A. Civil and courteous behavior is required at the field at all times.
- B. Safety is paramount and everyone's business. Use common sense in all matters.
- C. It is strongly recommended that you do not fly alone.
- D. Learn where the First Aid station is located and inform the Field Committee if material has been issued from it.
- E. When opening or closing combination locks, *always* set the wheels to 0000.
- F. Last member out must close and lock the refrigerators, pavilion, and main gate.
- G. Cell phones are not to be used on the flight line or in the pavilion near the transmitters.

2. Engine Courtesy:

- A. Long term tuning and initial break-in should be conducted away from the pits and spectators (usually at the engine break-in stand).
- B. Do not direct prop wash at other modelers, their aircraft, equipment, or bystanders behind the pit fence. Kindly inform those bystanders near the fence that you intend to start an engine before you do so.

2. Flying Courtesy:

- A. Any person wishing to enter an active flying field or runway to cross same or to retrieve an aircraft, must loudly announce their intention to all fliers on the flight line.
- B. A "landing" aircraft has the right of way over an aircraft "taking-off".
- C. A "dead stick" aircraft has the right of way over all others.
- D. All take-off and landing attempts must be announced to other pilots on the flight line. Take-offs are normally announced by saying "taking off", and landings are announced by saying "landing" or coming in". Dead stick landings are announced clearly to all pilots in the pits and on the flight line by saying "dead stick".
- E. A pilot having difficulty in controlling his/her aircraft must announce to all in the pits and on the flight line that he/she is experiencing radio or mechanical problems. Pilots on the ground preparing to fly will turn off their transmitters and wait for the problem to be resolved before continuing to fly. Fliers in the air will stay clear of the aircraft in distress and will land, if possible, as long as it does not contribute to the crisis. All personnel near the pit area must be alerted to the situation.
- F. If a crash occurs on the field or in the pits, all flying will stop until the accident has been investigated and the debris has been cleared from the field.
- G. Normal flight duration is 10 minutes. Obviously, flight time may be extended if there are no other pilots waiting to fly or waiting for a particular radio channel.
- H. When you have finished flying, please return your transmitter to the impound.

3. Good Earth Policy:

- A. Place recyclables in the appropriate container in the pavilion.
- B. Turn off all pavilion lights when departing the field for the night.
- C. The field does not have a trash removal service. If you carry anything to the field, carry it back out.
- D. If a pilot or guest brings a pet to the field, he/she will be responsible for supervising the animal's conduct while at the field. Please observe all appropriate Field Rules.
- E. If you smoke, please place all cigarette butts in the butt cans in the field.
- F. Do not throw cans or bottles or any other trash in the outhouse pits.
- G. DO NOT DRINK THE WELL WATER. Well water is to be used for washing only.

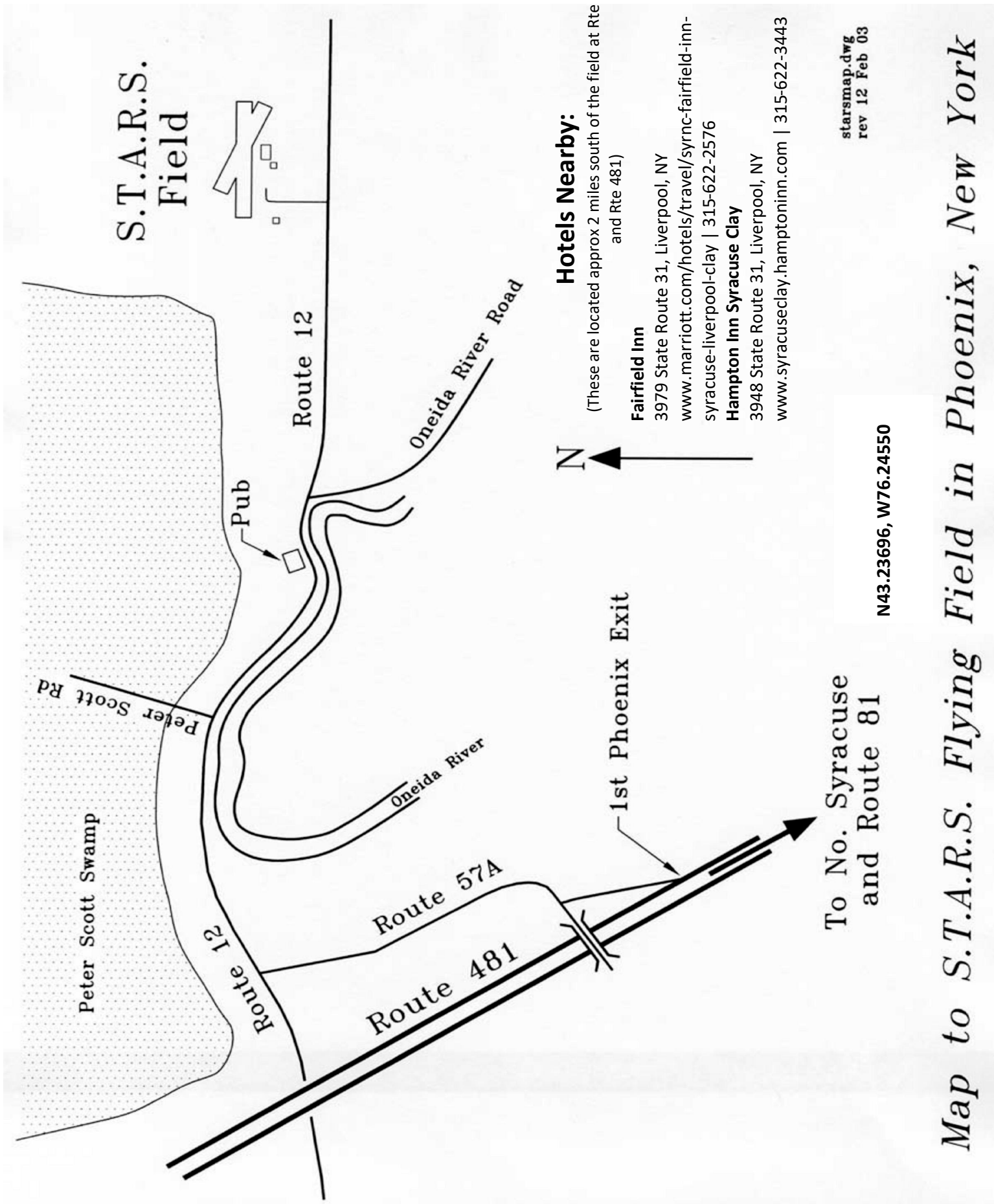
4. Replacement Courtesy:

- A. Where an individual's plane or property is damaged by the actions of another individual, it will be the responsibility of the two parties to resolve the situation in an appropriate manner.

STARS POLICY REGARDING PHOTOGRAPHY

- STARS is a membership organization organized under the laws of the State of New York.
- The STARS flying field, located in Phoenix, New York, is owned by STARS, and as such, is privately owned property.
- The purpose of this policy is to limit and restrict the reproduction of images, in any form, of the STARS property and the activities which occur thereon.
- While the STARS property is privately owned, members, guests, and the general public are welcome at the field during published field hours of operation. Members, guests and the public must adhere to all rules imposed by STARS regarding entry upon and/or the use of STARS property, including the STARS policy on photography.
- The reproduction of images of the STARS field or the activities thereon, in any form, is a privilege and not a right.
- Except as provided below, the reproduction of images of the STARS field or activities thereon in any form, including, but not limited to film and digital still photography, and video photography in either film or digital form, is strictly forbidden.
- Violation of this policy will result in immediate expulsion of the violator from the STARS premises, and may subject the violator to criminal and/or civil sanctions and penalties.
- Members in good standing of STARS shall be exempt from the above requirements so long as any images or video produced of the STARS premises or the activities thereon are for personal and non-commercial use.
- Guests and the general public may be permitted to photograph or video the STARS property and activities thereon, but only for personal and non-commercial use, and only with the prior written consent of the Club's executive board.

Map to the STARS



S.T.A.R.S.
Field

Route 12

Oneida River Road

Pub

N

Hotels Nearby:

(These are located approx 2 miles south of the field at Rte 31 and Rte 481)

Fairfield Inn

3979 State Route 31, Liverpool, NY

www.marriott.com/hotels/travel/syrnc-fairfield-inn-syracuse-liverpool-clay | 315-622-2576

Hampton Inn Syracuse Clay

3948 State Route 31, Liverpool, NY

www.syracuseclay.hamptoninn.com | 315-622-3443

To No. Syracuse
and Route 81

N43.23696, W76.24550

starsmap.dwg
rev 12 Feb 03

Map to S.T.A.R.S. Flying Field in Phoenix, New York



Est. 1965

Syracuse Thunderbirds Aero Radio Society

Online at: <http://www.amadistrictiistars.org>



Charter 473

Membership Application Form

Date: _____

Membership: Open (\$160 share+\$60 dues) Extra Family member (\$30.00)
 Associate (\$75.00) Youth (< AMA age 19 - \$0.00)
 Park Pilot - Associate (\$75.00) Park Pilot - Youth (< AMA age 19 - \$0.00)

Name: _____

Address: _____

Phone: _____

AMA: _____ DOB: _____

RC Channels Used: _____

STARS Member(s) Contacted: _____

Primary Interests (Sport, Scale, Pattern, Fun Fly, etc.): _____

Other Club Affiliations: _____

Email Address (for newsletter and notices): _____

You must be a current member of the Academy of Model Aeronautics (AMA) in order to join the STARS. Please show your AMA card to the Officer given this application or include a photocopy of the application for the license.

"I have read and agree to abide by the STARS Field Safety Rules." (on back)

Submit this form to a Club Officer

Rev 29may17