

Syracuse Thunderbirds Aero Radio Society



# Plane Propwash



January 2018

Charter 473

**The Next General Meeting will be February 14th, at 7:00 at Walt's Hobby Town.**

**2018 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 Walt's Hobby Town, February 14th, at 7:00. As a reminder, the meeting is always the second Wednesday of the month. The STARS monthly meeting will be held at Walt's Hobby Town until spring 2018.**

**Shed Vote**

Crazy weather! If it's not snowing, blowing, and whistling, it's raining, icing, and just downright miserable. The good news? Spring arrives on March 20th...

The STARS Auction was held on January 19, 2018 at Walt's and was successful both for the winning bidders and the Club. Thanks to Bruce for allowing us to host this event again this year, and for accommodating us for our monthly meetings.

The 22nd Annual Model Aircraft Forum is right around the corner on February 3, 2018 at the Syracuse Academy of Science; always an interesting and entertaining time for a good cause.

Our Annual Snow Fly is scheduled for March 4, 2018 at the field, rain, shine or snow. Come on out and freeze your butt with your fellow Club members!

As an important note, there will be two important votes at the February 14 monthly meeting, and you are urged to attend and participate. The first vote concerns the shed project, and the second vote concerns funding for the shed project.

Please remember that dues are now due.

The next STARS meetings are February 14, 2018 and March 14, 2018 at Walt's.

Fly onward!  
Ken

2018 STARS dues are due. Dues can be paid at the February monthly meeting. Dues can also be sent to the Treasurer at any time. (Herb Moore 645 Gilbert Mills Road Fulton, NY. 13069) After the January meeting, there is a \$10.00 late fee now that the January meeting has passed.

## ***Secretary's Report: Jeff Wolsley***

The January STARS regular meeting was called to order at 7:04. There were 15 Open Members, 5 Associate, 1 guest, and 0 youth member in attendance.

### **Secretary's Report:**

The Secretary's Report from the November meeting was accepted as published in the November Propwash. Motion to accept by Peter Seiffert and 2<sup>nd</sup> by Mike Graham. Carried.

### **Treasurer's Report: Herb Moore**

The treasurer reported that 2018 dues are come in. Several paid just before the meeting started. The property tax is due. The insurance is paid up. Motion by Peter Seiffert and 2<sup>nd</sup> by Ed Nans. Carried.

### **Committee Reports:**

**Field Committee:** No report for the January meeting. The lock combinations have been changed for 2018.

### **Safety Report: Peter Seiffert**

Peter spoke about a report that was submitted by Herb Ziegler regarding batteries- specifically in the spectrum DX transmitter. With Herb's permission, I have attached report to the news letter immediately following the Secretary's Report. Herb's report warns that transmitter batteries approaching 3 years old should be replaced. The battery alarm should be set no lower than 7.2 volts. DO NOT go by the default battery level setting.

### **Flight School: Bob Rowe**

No report

### **STARS Web Site: Paul Volcko**

The address is <http://www.amadistrictiistars.org>

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:**

Driveway- Continues to be in good shape. The new box blade is working great.

Food Sales- Offered for official club events. More variety of products offered other than just hot dogs and hamburgers. There will be a slight increase in sale prices.

### **New Shed. Ed Nans**

Ed presented the final pricing from 84 Lumber. The shed will come as a kit. The slab will be done by us. Rebar is included in the pricing that Ed presented as is delivery.

The proposal from 84 Lumber is attached. Note the man door and window shown in the picture are not included. Neither is the patio furniture. It was decided that these were a security risk.

A motion was made to vote at the next STARS meeting to go ahead with the shed, and sell shares to fund this project. Voting is restricted to OPEN membership. Shares can be purchased by any

club member. The motion was made by Herb Moore and 2<sup>nd</sup> by Mike Graham. Carried.

### **Big Bird Giant Scale:**

The Big Bird night will return in 2018.

### **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 118 members at this time. [Mike O'Neil](#) is the administrator.

### **New Business:**

#### **Model Aircraft Forum:**

The forum will be held February 3<sup>rd</sup> 2018 from 9:00 until 4:00. There will be a static model display, so please bring your aircraft to display. The swap shop at the event will be free. All proceeds from the Forum event will be donated to the Syracuse Academy of Science. Admission will be 5.00 collected at the door.

#### **STARS Auction:**

STARS auction will be January 19<sup>th</sup> at Walt's. Set up starts at 5:00 and bidding starts at 6:00.

#### **Guest Columnist:**

If you wish to submit a column of your own, please submit it to the Secretary. All submittals are subject to review by the Officers prior to publishing.

#### **Club Jacket Order:**

Phil Morgan has contacted Papa's Sports, 1926 Park St., Syracuse, 315-455-7272. They are open 9-5:00 weekday. They have a very nice jacket for 80.00 + tax. The price includes embroidery for the STARS club logo.

#### **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:**

No new members.

#### **Adjournment:**

The January regular monthly meeting of the STARS was adjourned at 7:54pm.

***Secretary, Jeff Wolsley***

## Spektrum Battery Warning! Don't let this happen to you... 12/10/17 HCZ

If you own a Spektrum DX8, DX9 or similar transmitter that uses a Lithium Ion or Lithium Polymer battery, this warning is for you.

I crashed my GWS Tigermoth 400 due to a completely preventable fault in my DX9 transmitter. I took off with what I thought was plenty of battery power (7.2V showing on the display). A few minutes into the flight, the transmitter shut off without any warning. The plane crashed and was destroyed. Although the switch was on, the transmitter was dead. No LCD display. For what it's worth, the transmitter is about 4 years old with the original 2000mAh Lithium-Ion battery.

At home, I put a few minutes of charge in it and the transmitter came back to life, showing about 7.1V on the display. I confirmed that the display was correct with a voltmeter. I left it on for a while watching to see if it would shut off again. Sure enough, after a few minutes it shut off when the display read 7.0V, again with no warning.

A little research revealed some vital information about the stock transmitter battery. It contains a circuit that protects from overcharging the battery, balances the cells during charging and also protects it from being over discharged. Most information says the battery will cut off at 6V (3V per cell). The idea here is that if you accidentally leave your transmitter on, the battery will cut off so that you don't ruin your battery by over discharging it.

When you set up your transmitter, you select the battery type from a list in the "System Settings" menu. Selecting either LiPo or Lithium-Ion enters a default "Alarm" level to 6.4V. When the battery voltage reaches that level, the transmitter warns you that the battery is low. This should occur well before the battery cutoff of 6V is reached.

So, why was my battery cutting off at 7V instead of 6? Well, it turns out that the circuit monitoring the battery condition is looking at each cell, not just the total output. After unwrapping the battery, with it still discharged to the cutoff level, one cell read 3V and the other one read 4V, for a total of 7V. It appears that either cell going below 3V will cause the battery to cut off. Obviously one cell of this battery has gone bad. Since the battery was cutting off at 7V and the transmitter was set to alarm at 6.4V, it cut off without any warning.

I replaced the battery with a Spektrum 4000mAh LiPo. Upon receiving the new battery, I discharged it through a 10 watt, 6.3 ohm resistor (roughly 1 amp discharge rate). I observed the cutoff at 6V, just like it should be.

Here's what I recommend:

1. If your battery is 4 years old, just replace it.
2. Set your battery alarm to at least 7.2V instead of the 6.4V default. To get to the setting:
  - Power the radio up
  - Push the scroll roller to get into the menus
  - Scroll to "System Setup" and push the scroll roller
  - Scroll to "Yes" to disable RF and push the scroll roller
  - Scroll to "System Settings" and push the scroll roller
  - Scroll to the "Alarm" line, highlighting the current setting (probably 6.4v) and push the scroll roller
  - Scroll it to 7.2V (or whatever voltage you choose to alarm at) and push the scroll roller
  - Hit the "Back" button twice and you're done

- Notes
1. This is the sequence for my DX9. Others should be the same or similar.
  2. If you change battery type, it will revert back to the default setting of 6.4v. You will need to re-set the alarm level.

Take the time to make this small change to your transmitter. Your aircraft will thank you.

Here's what the original battery looks like with the shrink wrap removed:





## NEW STARS STORAGE SHED PROPOSAL 11/27/17 rev A

### Background:

A new storage shed is desired to be constructed in 2018. All prices in this proposal are reasonable estimates and current prices.

The current shed on the West side of the STARS property is in extremely poor condition and not expected to last much longer. It currently stores two lawn tractors approximately 4 ft. X 9 ft. each in size along with 30 square feet of space used to store material for the air show. The second newer shed stores the new commercial grade golf course tractor 9 ft. X 9ft. which barely fits. A new shed is proposed in this document to allow proper storage of the lawn maintenance equipment.

## Requirements:

- 1) The shed size is to be 16 ft. X 24 ft. (384 square feet). The shed shall be purchased as a kit and erected by the club members.
- 2) The walls will be 9' tall.
- 3) It will have a garage door 12' wide by 8' tall
- 4) It will have a concrete floor a minimum of 5" thick with an 8" thick perimeter to support the structure walls. The ground shall be prepared with 30 ton of stone prior to the cement pour.
- 5) It will have a small power service for lighting and power tool use (30 amps) and Ethernet cable for security systems
  - a. 6 Fluorescent light fixtures
  - b. 6 Power outlets

Currently being considered is adding a breaker to the current electrical service in the clubhouse and running an underground cable to the new structure.

- 6) It will have work benches, cabinets and shelving
- 7) There will be no man door or window. Neither is required by code and without them installed will provide additional bldg. security.

## Location:

- 1) Approximately 12 ft. south directly behind the existing East garage adjacent to the parking lot.

## Town Codes Requirements:

The STARS field is in the Town of Schroepfel and will require the following items to satisfy the code requirements. This structure will require a permit with fee (.15 / sq. ft.), survey map, building plans, material list, contractor insurance waiver, and a roof snow load certification of 60 pounds. We have or will have all of these items when we apply for the permit.

# PRICING

- Cost basis
- 1) Structure estimates current pricing from Baldwinsville 84 Lumber 635-8400
  - 2) Concrete current prices from Saunders in Central Square 668-0095
  - 3) Stone 2017 prices from TJs Lawn Plus Phoenix NY. 458-5296
  - 4) Miscellaneous pricing from online suppliers (Home depot, Lowes etc.)

## Pricing details:

Structure estimates from 84Lumber include all materials to fabricate the shed including pre-engineered roof trusses, \$300 for hardware, delivery, off-loading, and taxes. Delivery is 3-4 weeks following placement of the order.

Electrical estimate includes cable, junction power box, sw/outlet boxes, circuit breakers, switches/outlets, light fixtures, 50' underground conduit, and misc.

Concrete estimate includes delivery for 6 yards of concrete.

There are separate entries for a flammable materials storage cabinet, and a composting toilet. Shelves, workbenches, and cabinets are not priced in this proposal and maybe fabricated from scrap materials.

Prices:

Structure (Detail pricing attached)	5906.91
Cement slab	
Cement	792.00
Hardware	125.00
Stone	700.00
Total Slab	1617.00
Electrical supplies	
Wire	110.00
Conduit	35.00
Breakers	25.00
Junction boxes	35.00
Lighting fixtures	108.00
Ethernet cable	29.00
Total Electrical	342.00
Permit Fee	57.60
Total Shed Cost	7923.51
Miscellaneous Items	
Flammable materials storage cabinet	453.65



## Schedule:

Based upon the success of the financing campaign it is expected procurement of materials, permit application, and ground preparations can begin in mid-March to early April. A rough Detailed schedule maybe as follows.

- 1) March 15 Apply for building permit
- 2) March 21-25 order structure kit
- 3) April 1-5 prepare site
- 4) April 6-10 order stone and arrange delivery
- 5) April 11-15 spread stone
- 6) April 16-25 prepare for cement slab installation and install
- 7) April 21-25 receive structure kit
- 8) April 22-25 procure electrical items and dig trench for wire
- 9) May15 begin structure construction

ESTIMATE #384  
11/28/17 8:09 AM

84 LUMBER CO.

NAME: ED NANS  
CODE:  
ADDRESS: PHOENIX  
PHOENIX, NY 13135  
PHONE: (315) 440-1710 FAX:  
PROJECT:

STORE: 0638 - BALDWINVILLE  
ADDRESS: 2220 DOWNER ST  
PHONE: (315) 635-8400  
ASSOCIATE: NICHOLAS KOZIOL  
EST DATE: 11/07/17 START: / /

< THIS IS NOT A RECEIPT >

#384

CUSTOMER COPY

P.O.S.#	QTY	DESCRIPTION	PRICE	EXTENDED
		16X24 GARAGE W PRECUTS		
2.	2061608	10 2X6X16 KD H-FIR #2&BTR	13.72	137.20
3.	2041608	10 2X4X16 KD H-FIR STD&BTR	8.08	80.80
4.	2041670	5 2X4X16 #2 PRIME TRT SYP	10.19	50.95
5.	2410408	70 2X4X104-5/8 KD HF STUD	4.39	307.30
6.	7112000	22 3/8X4X8 TXT OSBSMRT SOFFI	36.27	797.94
7.	2001500	28 1-3/4X9-1/2 LVL 1.9BTR	4.09	114.52
8.	2041601	10 2X4X16 #2&BTR KD SPF	8.29	82.90
9.	15800	17 19/32X4X8 RATED SHEATHING	26.19	445.23
10.	2205000	5 DURATION TRU DEF ONYX BLK	88.86	444.30
11.	2292205	1 PROEDGE H&R ONYX BLACK	54.48	54.48
12.	5997801	7 DE6 DRIPEDGE GALV WH 10'	5.12	35.84
13.	1240500	3 GRIP-RITE ICE&WATER 1.95SQ	50.27	150.81
14.	2530600	1 SHINGLE STARTER ROLL	16.14	16.14
15.	6992600	6 SHINGLE OVER RIDGE VENT 4'	11.48	68.88
16.	551100	26 H2.5AZ (100)	0.39	10.14
17.	5531205	1 N10D5HDG-R (4) (REP5531200	19.39	19.39
18.	5508700	100 PSCL 5/8 (250)	0.09	9.00
19.	7145100	2 4/4X4X16 TXT OSBSMRT TRIM	15.29	30.58

ESTIMATE #384

11/28/17 8:09 AM

84 LUMBER CO.

PAGE 2

NAME: ED NANS  
CODE:  
ADDRESS: PHOENIX  
PHOENIX, NY 13135  
PHONE: (315) 440-1710 FAX:  
PROJECT:

STORE: 0638 - BALDWINVILLE  
ADDRESS: 2220 DOWNER ST  
PHONE: (315) 635-8400  
ASSOCIATE: NICHOLAS KOZIOL  
EST DATE: 11/07/17 START: / /

< THIS IS NOT A RECEIPT >

#384

CUSTOMER COPY

P.O.S.#	QTY	DESCRIPTION	PRICE	EXTENDED
20.	7145200	6	4/4X6X16 TXT OSBSMRT TRIM	19.69 118.14
21.	12345	1	000000 NAIL ALLOWANCE	300.00 300.00
22.	88410	13	16' TRUSSES 4/12P	90.10 1171.30
23.	88420	1	12'X8' INS GARAGE DOOR	903.52 903.52
24.	30000	1	DELIVERY SERVICE	120.00 120.00
			SUBTOTAL	\$5,469.36
			TAX	\$437.55
			TOTAL	\$5,906.91

84 LUMBER CO. ESTIMATE AND PRICING POLICY

1. REGULAR UNIT PRICES ARE SUBJECT TO CHANGE WITHOUT NOTICE ANYTIME AFTER 7 DAYS FOLLOWING DATE OF ESTIMATE.
2. SALE PRICES ARE IN EFFECT ONLY UNTIL THE END OF THE ADVERTISED SALE PERIOD.
3. CUSTOMER DEPOSIT OF FULL AMOUNT OF ESTIMATED TOTAL PRICE WILL RENDER UNIT PRICES FIRM FOR 30 DAYS FROM DATE OF DEPOSIT.
4. 84 LUMBER CO. ASSUMES NO RESPONSIBILITY FOR ACCURACY OF TAKE OFFS FROM DRAWINGS OR BLUEPRINTS OR THAT THE PRODUCTS LISTED WILL BE SUFFICIENT TO COMPLETE CUSTOMER'S INTENDED PROJECT. CUSTOMERS SHOULD HAVE QUALIFIED ENGINEER OR ARCHITECT REVIEW ALL QUANTITIES.
5. THIS ESTIMATE DOES NOT CONSTITUTE A CONTRACT OF SALE OR GUARANTEE AVAILABILITY OF ANY PRODUCT LISTED.
6. ALL PRICES QUOTED BASED ON TOTAL PACKAGE PRICE AND SUBJECT TO CHANGE IF TOTAL PACKAGE NOT PURCHASED OR CONTENTS OF PACKAGE CHANGE.

For this project, call Maggie's Mgmt LLC dba 84 Insurance for a quote on Builders Risk Insurance at 877-866-1384 Opt. 1 Ext. 2108 or visit 84insurance.com.

Maggies Management, LLC is a licensed insurance producer and is a separate entity from 84 Lumber Co. 84 Lumber Co. is not licensed to and does not sell insurance.

## Calendar of Events for December 2017 to May 2018 Events: *Editor's Note- Also*

*watch your e-mail for sudden changes to events like cancellations or re-scheduling due to weather.*

February 3- Model Aircraft Forum

February 17- [RCCR](#) Swap meet, Mother of Sorrows Church Rochester

February 23-25- 2018 AMA Expo East

February 24- [Oneida Lake Flyers](#) Swap meet VFW Constantia

March 17- [Canandaigua Sky Chiefs](#) Swap meet Rhonda's Auction House Bloomfield

April 14- [Finger Lakes Air Pirates](#) Swap meet Seneca Falls.

April 17- STARS First night of HELI Flight School

April 19- STARS Flight School pre-flight checkout- STARS Field starts at 7:00

May 3- STARS First night of Fixed Wing Flight School

June 9-10- [Thunder of Niagara International Air Show](#), The airshow is free unless you want to purchase VIP tickets.

July 13-15 [Geneseo Airshow](#)

[Onondaga Model Aircraft Club](#)- Swap meet-date to be announced

**The indoor flying schedule. Please watch this space for schedule changes as they may change.**

[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. Flying ends 1/2 hour before closing time. \$5.00 landing fee. Please contact Walt's Hobby Town for further details.

[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 starting in April. See above for the dates.**

**Big Bird**- The big bird flyers formal sessions will start in the spring. Watch for the date.

*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.*





# S.T.A.R.S.

## Auction 2018



### When?

**Friday, 19 January 2018**

**5 PM to 9 PM**

**Bidding starts at 6:00 PM**

### Where?

**Walt's HobbyTown**

## No Admission Fee!!

**Only Modeling Aircraft and Related Items will be Auctioned**

**10 % Commission will be charged on all Sales**

**Sellers will not be permitted to bid on their own Equipment**

***A Minimum acceptable bid will be required on each item up for Bid***

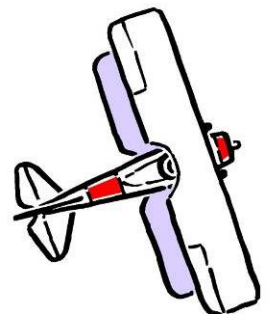
**5:00 PM to 6:00 PM — Setup and Preview**



**Auctioneer: Phil Morgan**

***For more information, contact:***

**Phil Morgan: 315/457-3674**





Aero Radio Club of Syracuse  
Syracuse Thunderbirds Aero Radio Society  
Central New York Indoor Flying Society  
Camillus Indoor Aviators



**Jointly Present the 22nd Annual**

***MODEL AIRCRAFT FORUM  
and Electric Fly-In  
[Swap Shop, too!]***

**Saturday, February 03, 2018  
9 AM to 4 PM  
at**

***Syracuse Academy of Science Charter School***  
1001 Park Avenue, Syracuse, New York, 4 blocks from Hiawatha Exit off 690 East

***AMA Sanctioned! AMA membership required to fly!***

**ELECTRIC and RUBBER FLYING HELD IN 80' x 80' x 24' INDOOR GYM**

**AIRCRAFT STATIC DISPLAY - FPV Flying**

**Swap Shop (no commission)**

**STARS/ARCS FLIGHT SCHOOLS and RC FLIGHT SIMULATORS  
HOBBY VENDORS**



***Concession Stand too!!***

**Admission - \$5.00  
Children 12 and under - free**



**For more information, contact:**

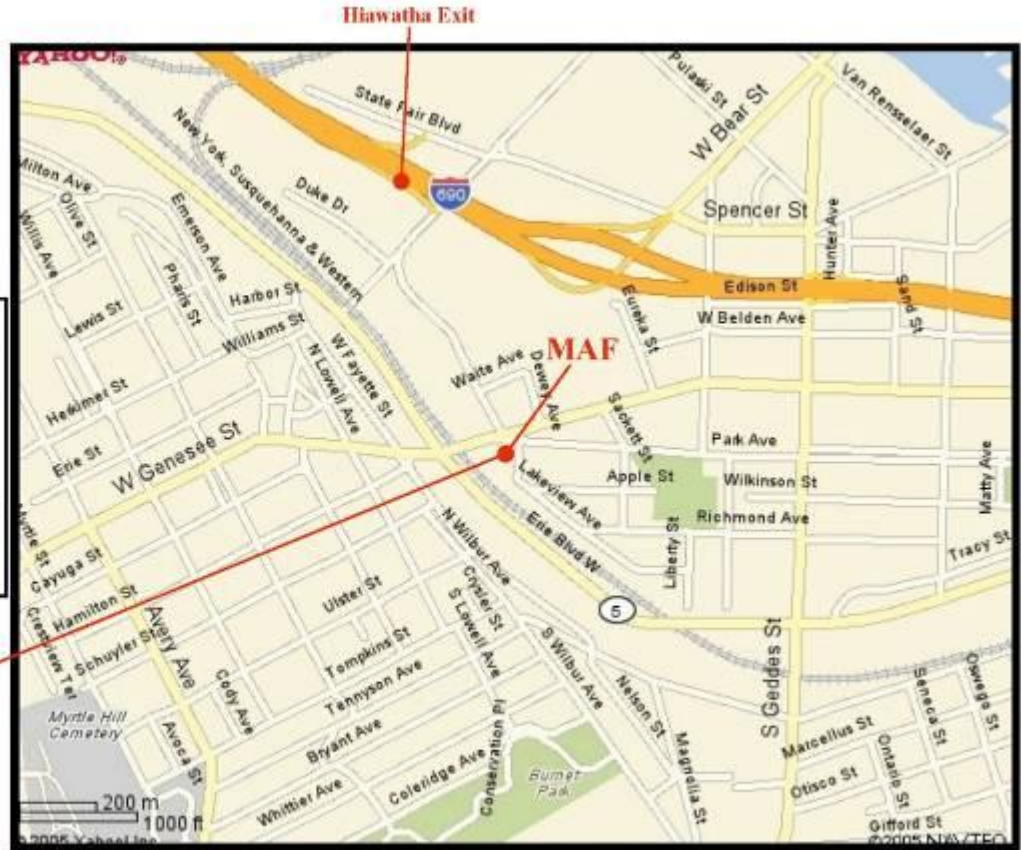
**Peter Seiffert at 315/635-6370 or Herb Ziegler at 315/857-6266  
pseiffert2@gmail.com and herbz1957@yahoo.com**

***Bring your Indoor Aircraft and Fly with Us***

The location of the Syracuse Academy of Science is just off West Genesee Street.

Parking is off street and immediately outside the gymnasium on the school grounds.

$76^{\circ} 10' 51'' \text{W}$ ,  $43^{\circ} 03' 12'' \text{N}$



Plenty of room for flying your indoor models here!! Tables will be setup on the stage for working on models and charging them.

If you have models to display or a booth to set up, the room below the flying area can accommodate all your needs.

Concession stand will be open during the day for hot sandwiches and cold drinks.



**FUN!**

# Oneida Lake Flyers

Radio Controlled Aircraft Club



## SWAP MEET

10:00 AM – 1:00 PM

Saturday, February 24, 2018



VFW Post 7325  
1560 Route 49  
Constantia, NY

Admission - \$5.00 (buying or selling)  
No reserved tables, first come, first serve  
Open 10:00 AM to public

**Auction at Noon**

Info: Kevin Jones - [kjhondarider@aol.com](mailto:kjhondarider@aol.com)

(315) 623-7780

**R  
A  
F  
F  
L  
E  
S**

**F  
O  
O  
D**





# S.T.A.R.S.

## Annual 2018 Snow Fly



**When?**

**Sunday, 04 March 2018**  
11 AM to 4 PM

**Where?**

**S.T.A.R.S. Field in Phoenix, NY**  
(See map on back)

❄️ **Admission: *NONE*** ❄️

**Open Flying - fly when you are warm enough!**  
**Heated, enclosed pavilion.**  
**Power available for charging batteries.**  
**Food & Beverages to be served all day.**

**Come and fly all day!** ❄️

***For more information, contact:***  
***Ken Kadish, President: 315/449-3239***



**Sponsored by the Syracuse Thunderbirds Aero Radio Society, Inc.**

# S.T.A.R.S.

## *Flight Training Program*



# 2018



### **When?**

Every Thursday evening from 5:30 PM to Sunset  
May 03, 2018 through September 06, 2018

### **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 19, 2018 at 7 PM

### **Interested?**

Contact:

SENIOR FLIGHT INSTRUCTOR: Bob Rowe (315/474-8428)

# *Syracuse Thunderbirds Aero Radio Society*

*Phoenix, NY*

**Charter 473**



# **S.T.A.R.S. 2018 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 17 to October 09  
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](http://waltshobby.com)



**Open 10-7 Tuesday thru Sunday.**

**315-532-6826**

[www.mexairrc.com](http://www.mexairrc.com)

[www.facebook.com/mexairrc](https://www.facebook.com/mexairrc)

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

### FOR SALE:

From STARS Carl Moore-

2.4 Futaba 7C Transmitter With charger, book, two R617fS receivers \$95.00

2.4 Spektrum DX 7 Transmitter With charger and book No Receivers \$60.00

Transmitter Case, hard side \$ 15.00

Carl Moore 315- 668- 1684

**Please contact the Secretary if you have any RC related items you want to post in the classified ads.**

**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.**

January 4th  
2018.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](mailto: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. An excellent site for Lipo battery info-

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

Peter Seiffert sent along the following web site- [www.servodatabase.com/servos/all](http://www.servodatabase.com/servos/all)

Mike Graham has a torque conversion chart-



Servo Torque  
Conversion Chart.pdf

### Arming Switch Information-

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

[http://www.rcuniverse.com/magazine/article\\_display.cfm?article\\_id=950](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/](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](mailto: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.

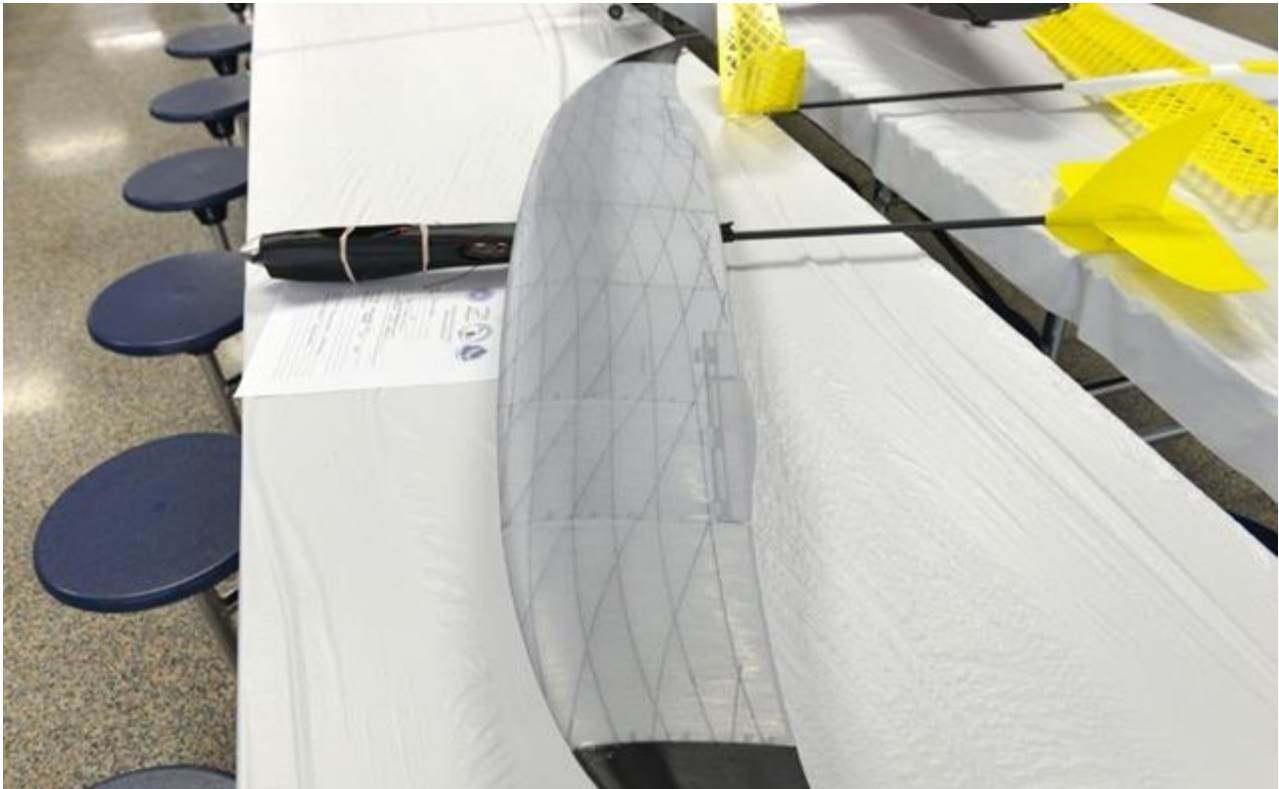
These are pictures from the 2018 Model Aircraft Forum. (All pictures courtesy of Mike Graham)







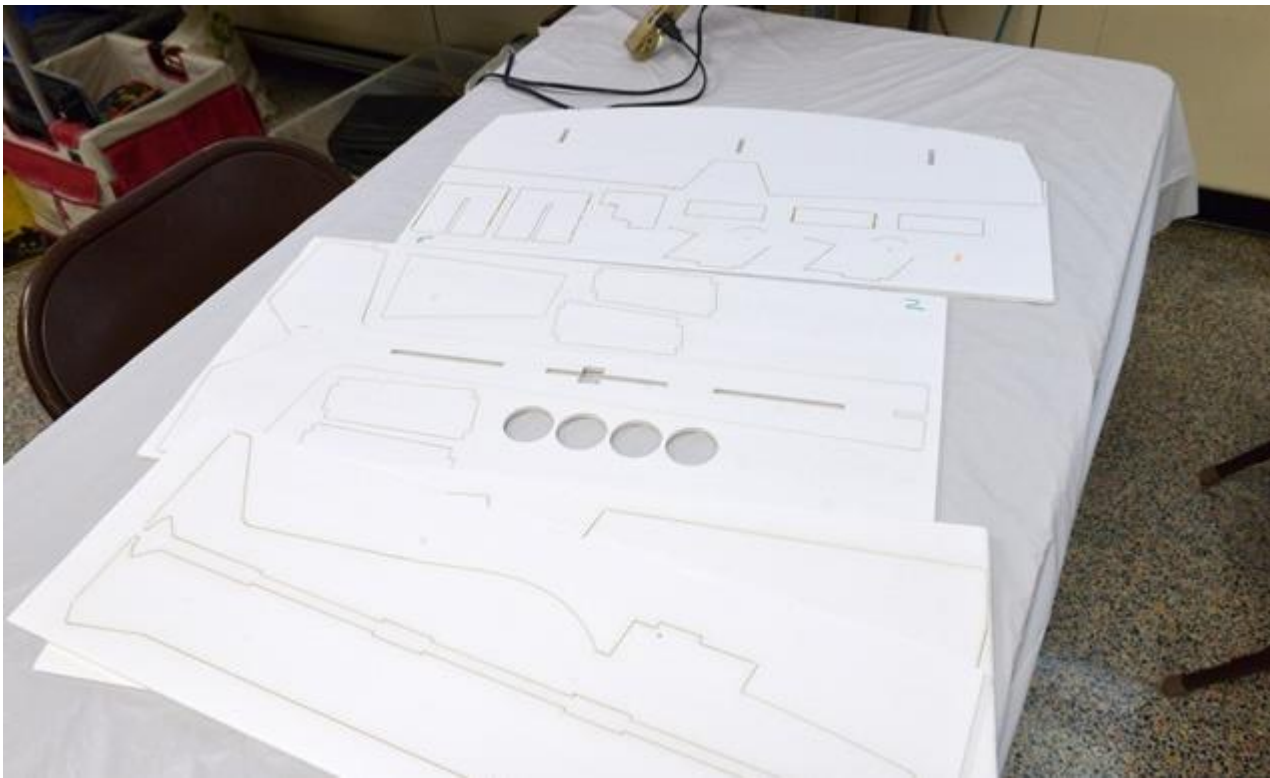














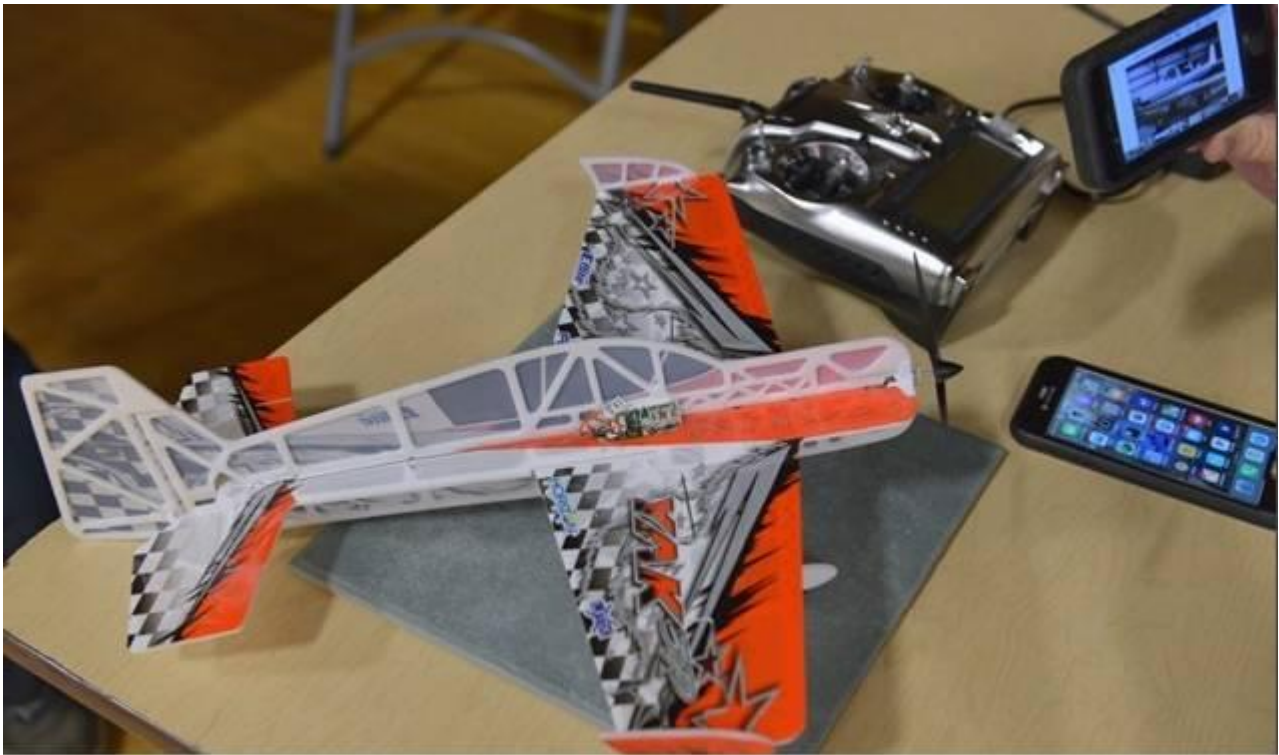


























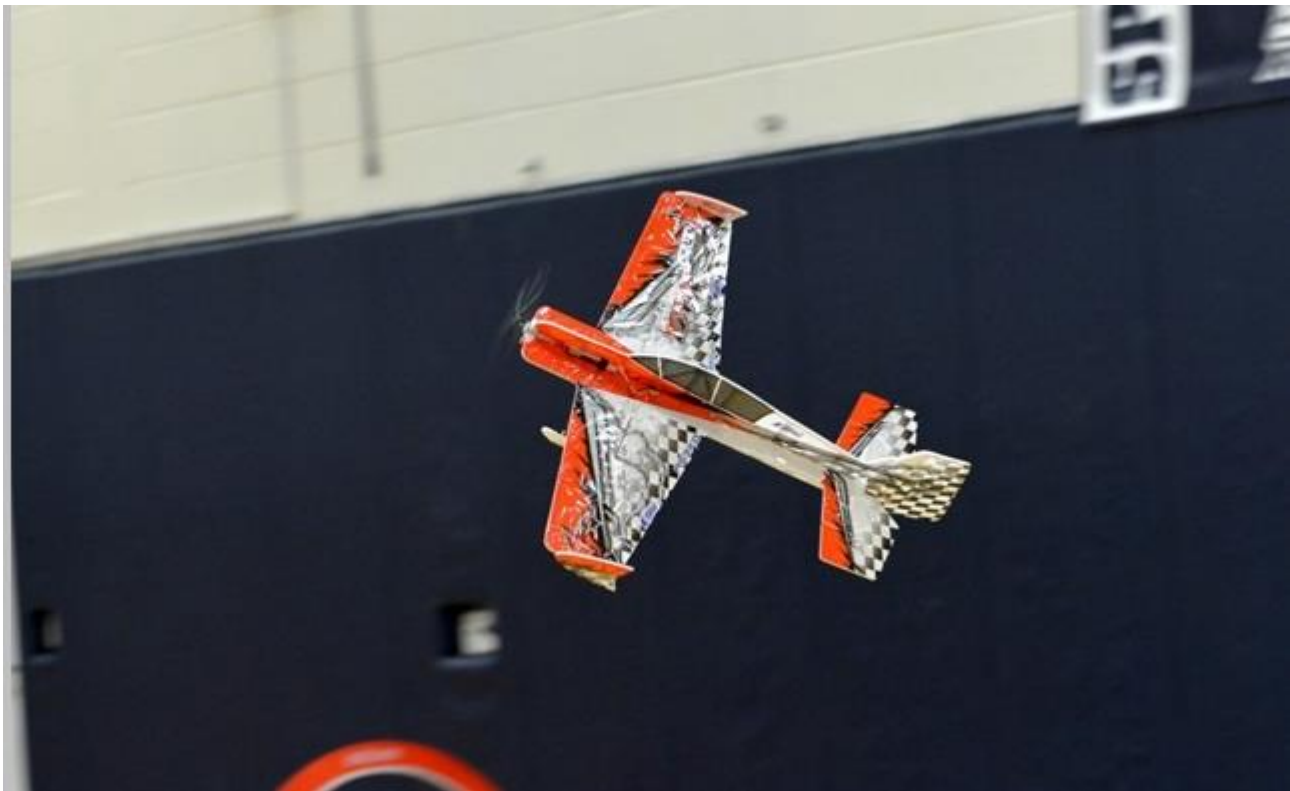










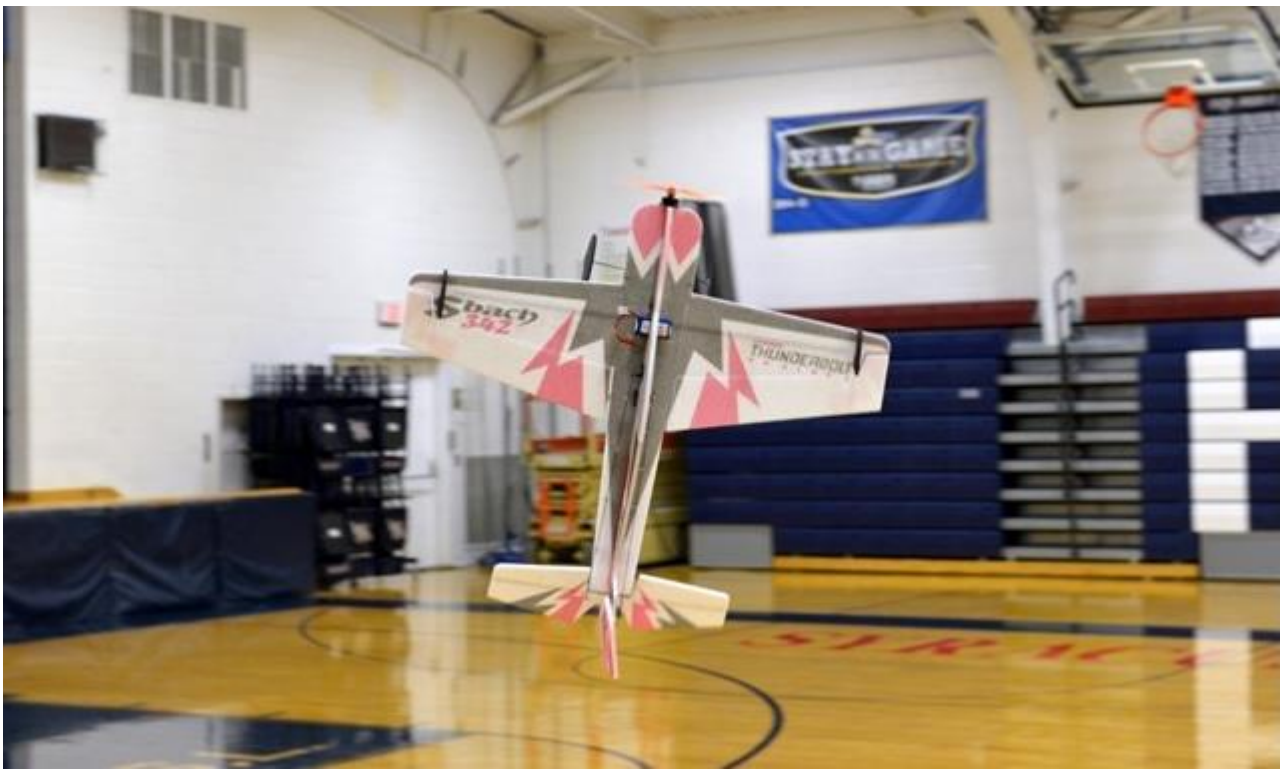






























STARS Field Satellite photo



## 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](http://www.uas4stem.org)).

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

[www.amaflightschool.org](http://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](http://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](http://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 Here's what you need to know.

Learn more at [www.amaflightschool.org](http://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

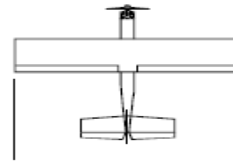
#### Share the sky.

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.
- C. Impound: All pilots, students, and flying guests must place their transmitter(s) in the impound area immediately upon arriving at the field.
- D. Vehicles: Vehicles will not be permitted *on* the flying field.
- E. 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.
- F. Trash: All members will take home their own trash.
- G. Alcoholic Beverages: Members will not consume alcoholic beverages prior to, nor during, participation in any *modeling* operations.
- H. Smoking: Smoking will not be permitted in the pit area or on the flight line.
- I. 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 undergoing training with an experienced AMA FPV pilot should use a buddy-box system if practicing at a low altitude (below 100 feet) or practice at a safer, higher, altitude when no buddy-box system is an option.**
- (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 **55 lbs.** and a speed of **100 mph**.

# STARS

## Field Protocol

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

5

### 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:

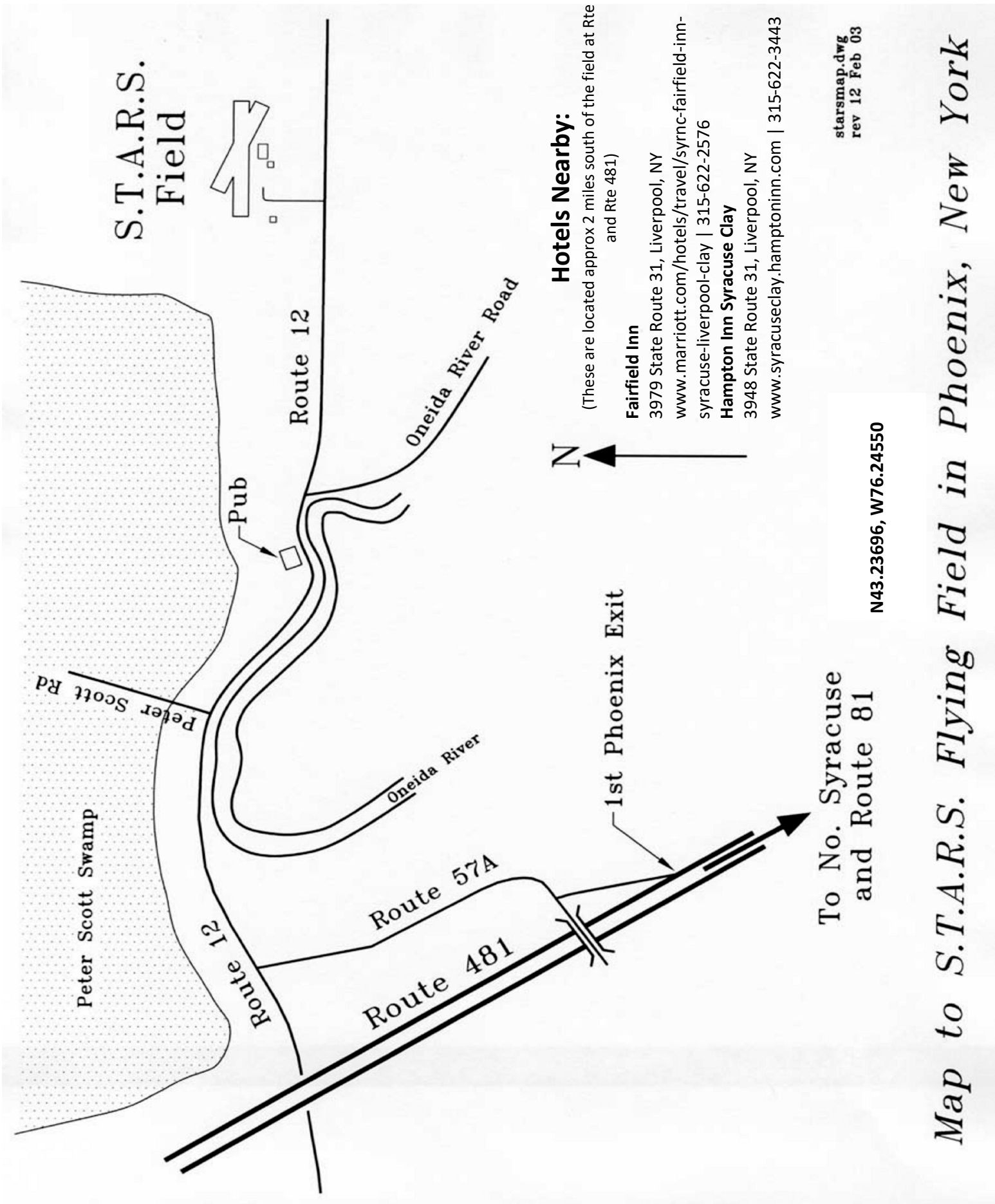
- A. Where an individual's plane or property is damaged by the actions of another individual, it will be the responsibility of the two parties to resolve the situation in an appropriate manner.

## **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](http://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](http://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 (for roster): \_\_\_\_\_

AMA: \_\_\_\_\_                      DOB: \_\_\_\_\_

STARS Member(s) Contacted: \_\_\_\_\_

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

Email Address (for newsletter and notices): \_\_\_\_\_

Emergency Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_

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 16aug17