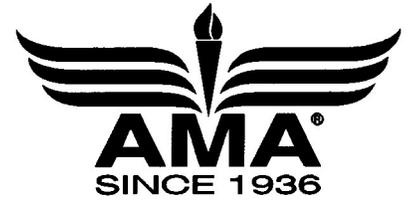


The Seminole Flyer



Charter member of the Academy
of Model Aeronautics since 1969

AMA Charter Club 216



February 2015 Issue

Salute the Civil Air Patrol

Saturday, January 31st, was a fun and busy day at the Seminole Radio Control Club Airfield. We hosted 15 Civil Air Patrol cadets from Marianna and provided RC aircraft flight training as part of their 16-step program that includes aerospace education. Geoff Lawrence, Randy Yarborough and Bill Ashbaker were busy with the buddy boxes for a good portion of the day.

In the late 1930s, more than 150,000 volunteers with a love for aviation argued for an organization to put their planes and flying skills to use in defense of their country. As a result, the Civil Air Patrol was born one week prior to the Japanese attack on Pearl Harbor. Thousands of volunteer members answered America's call to national service and sacrifice by accepting and performing critical wartime missions. Assigned to the War Department under the jurisdiction of the Army Air Corps, the contributions of the Civil Air Patrol include logging more than 500,000 flying hours, sinking two enemy submarines and saving hundreds of crash victims during World War II.

After the war, a thankful nation understood the Civil Air Patrol could continue providing valuable services to both local and national agencies. On July 1, 1946, President



Harry Truman signed Public Law 476 incorporating the Civil Air Patrol as a benevolent, nonprofit organization. On May 26, 1948, Congress passed Public Law 557 permanently establishing the Civil Air Patrol as the auxiliary of the new U.S. Air Force. Three primary mission areas were set forth at that time: aerospace education, cadet programs, and emergency services.

To this day, the Civil Air Patrol assists with search and rescue, disaster relief, humanitarian services and counterdrug missions and supports US Air Force programs.

While there are many youth oriented programs in America today, the Civil Air Patrol's cadet program is unique. It has aviation as a cornerstone. Thousands of young people from 12 through 21 years are introduced to aviation through the Civil Air Patrol's cadet program. Young people progress at their own pace through a 16-step program including aerospace education, leadership training, physical fitness and moral leadership. Cadets compete for academic scholarships to further their studies in fields such as engineering, science, aircraft mechanics, aerospace medicine, meteorology and many others. Cadets who earn cadet officer status may enter the Air Force as an E3



(Civil Air Patrol — continued)



(airman first class) rather than an E1 (airman basic).

Cadets have the opportunity to participate in special activities at the local, state, regional and national levels. Many cadets have the opportunity to solo an airplane for the first time through a flight encampment or academy. Others

enjoy traveling abroad through the International Air Cadet Exchange Program. Still others assist at major air shows throughout the nation.

— Content courtesy of the Civil Air Patrol

Club Meeting News

Matthew Hendrix, Secretary

Call to order

President Mike Levine called the February 19, 2015 meeting of the Seminole Radio Control Club to order at 1902 EST (7:02 PM Eastern Time)

Board Members:

Mike Levine – President
Randy Yarborough – Vice President
Matthew Hendrix – Secretary
Bill Ashbaker – Treasurer & Editor

2015 Club Calendar

- Perry Swap meet: Friday March 6th and Saturday March 7th.
- Annual field opening, picnic and swap meet: Saturday March 14th.
- Memorial Day weekend warbird meet: Sunday May 24th.
- 4th of July firecracker fun-fly and contest: Sunday July 5th.
- 2nd annual “Believe in a Cure” fundraiser and fly-in: Sunday October 4th.
- Veteran’s day picnic and fun-fly: Saturday November 7th.
- Training calendar: Saturdays 10:00 AM – 1:00 PM or

by appointment.

Secretary Report – Matthew Hendrix (mhendrix85@gmail.com)

- The January 15, 2015 meeting minutes were approved as published in the January club newsletter.

Treasurer Report - Bill Ashbaker (bill.ashbaker@comcast.net)

- The club financial statement was presented to the members and approved.

Safety Officer Report – Jim Ogorek (jim.ogorek@yahoo.com)

- Jim discussed the issues with storm water run-off causing washout & erosion on the road the leads to the field. The road has since been repaired by the county and storm water drainage changes are planning to be made to help divert runoff away from the road.
- The county is planning to place a low-flying aircraft sign and also a sign to keep left when coming out of the woods near the field.
- More-frequent servicing of the portable toilet(s) has been requested.

(Club Meeting News — Continued)

Field Marshal Report – Gordie Meade

(lmeade@fsu.edu)

- The field is in good condition.

Training Coordinator Report – Geoff Lawrence

(4knkc@comcast.net)

- The trainers are ready for use and in good working condition.
- The apprentice will have a normal (non-stabilized) receiver installed to avoid the ongoing issue with the AS3X receiver.

Old Business

- Due to being located in a hard to find area, presence this year at the Museum of Florida History Children's Day was down from last, however still a great turnout. The event was a big success with 30-40 kids showing up. Thanks Dan and everyone that helped out!!!!

New Business

- The signage for the new rule of displaying club ID badge (and be able to produce AMA documentation) was discussed. The final wording/sign will be submitted to Leon County for approval prior to being posted at the field. It will be placed at the entrance to the pavilion.
- Club members need to display their member ID badge on their person or with their equipment (flight box, transmitter, etc) at all times at the field. Please contact Bill if you need a new ID badge.
- Club website update
 - A new survey will be distributed soon to get SRCC member feedback on several topics. The topics will include the possibility of changes or enhancements to the website, ideas for new events, and other topics. Jeff Owens is our website administrator and any changes or updates shall be handled by him if approved. We want to thank Jeff for his continued hard work on our website.

- Randy proposed an idea for our own weather station at the field. Randy will present several different options & costs @ the next meeting.
- Maintaining flight courtesy was discussed.
- Perry Swap meet: Friday March 6th and Saturday March 7th. The club has tables. Everything happens on Friday.
 - SRCC will have tables C1-C7 and D1-D7 @ the McGill Building (Friday 11:00 AM)
- Annual spring fun fly, field opening, picnic and swap meet: Saturday March 14th. Long sleeve tee shirt order?
 - Long sleeve T-shirts and hats will be ordered for the event, \$15 each. Meal tickets will be \$5
 - Matt Hendrix will create a pre-registration for the event to help get an accurate count for the orders.
- **Storing damaged lipos at the field is no longer permitted until a sustainable, safe option can be found. Matt Hendrix delivered the two buckets full of bad lipos to the Hazardous Waste department at the adjacent landfill. The employees are familiar with our club and accepted the lipos free of charge. Please do NOT place damaged lipos in the garbage! The landfill is open Monday to Saturday from 8:00 AM to 5:00 PM. Please take your damaged batteries to the landfill. (When you enter the property, follow signs left to the overhang where the hazardous waste building is).**

Next Board meeting

Board meetings will be held on Tuesdays the week of the regular club meetings @ 7:00pm. Next board meeting on 3-16-15

Next Club meeting

Thursday March 19th 2015 (Beef O' Brady's 1800 Thom- asville RD 7:00 PM)

Adjournment

The president adjourned the meeting @ 2001 EST (8:01 PM Eastern Time)

Opening Day Is Coming!!



Get ready for fun and hot dogs! The Seminole RC Club Opening Day is on **Saturday, March 14th**. This is the weekend after the Perry air show and swap meet.

This year, we will feature a club swap meet along with grilled food and fun flying. Bring out RC stuff that you

have been planning to sell. This is also a good opportunity to overcome buyer's remorse after the Perry weekend. Bring your newly acquired "treasure" and put it out for sale. We have a limited amount of table space. So, bring your own table if possible.

New Sign at the Field

Due to on-going concerns about non-members flying at the field, the following sign will be placed at the field. The sign was approved at the February club meeting and is being approved by Leon County. If anyone needs a replacement club badge, send a request to SeminoleRadioControlClub@gmail.com



NOTICE

This is a private radio controlled (R/C) flying field leased to the Seminole Radio Control Club (SRCC) by Leon County and maintained by SRCC members. Visitors are always welcome. However our lease with Leon County requires current Academy of Model Aeronautics (AMA) membership for all flyers and membership in the SRCC is required for use of this facility for the flying any type of R/C aircraft. Members shall display SRCC badges at all times and AMA cards must be available upon request. Non-members are permitted to fly up to three (3) times provided they have current AMA membership and are sponsored by an active SRCC member who is present and assumes responsibility for his or her activities while flying.

cms.leoncountyfl.gov

www.seminolerc.com

We All Fly “Drones”

By Bill Ashbaker



Drone!!!



Drone???

Yes, it is true. All of our RC aircraft are drones according to the FAA definition, not just the multirotors. We should all be concerned with current and proposed federal laws and rules related to drones. They do impact our hobby.

The FAA views anything that flies without a pilot onboard and weighing less than 55 pounds as a small unmanned aerial system (sUAS), the FAA term for drone. This definition includes all of our RC airplanes and helicopters. Fortunately for us, congress passed federal law 112-95 in 2012 that prohibits the FAA from promulgating any rule or regulation regarding model aircraft. Our flying is covered by this federal law as long as we:

- Do not accept any form of payment for demonstrations or aerial photography,
- Are members of the AMA and fly according to AMA safety rules,
- Limit model weight to 55 pounds or less,
- Do not interfere with manned aircraft operations,
- Notify the airport operator and the appropriate air traffic control tower if we fly within five miles of an airport, and
- Keep our models within visual line of sight.

We are fortunate that our field is further than five miles from the airport and we are AMA members. As long as

we fly within the AMA rules, we can fly our models without constraint. However, we must stay below 1,400 feet altitude because that is the floor of controlled airspace for the Tallahassee airport in the area of our field.

It is interesting to note that anyone flying inside of Capital Circle or south of Interstate 10 is violating federal law if they do not notify the airport control tower. It is also interesting that anyone flying anywhere without AMA membership is not in compliance with the federal law.

It looks like any of us who would like to charge for aerial photography using our multirotors will have to wait a couple more years. The FAA released a proposed rule for flying sUAVs for money on February 15th, but it will take two years to finalize. The proposed rule requires an operator to pass a test, get a sUAV pilot certificate and register their aircraft.

We must be vigilant with regard to proposed federal laws and rulemaking. Recent polls indicate that 46% of the public have unfavorable views of drones. This is due in large part to the media feeding frenzy over people misbehaving with sUAVs. Admittedly, most issues are blown way out of proportion, but these reports influence congressional and state legislators. We are protected from the FAA by federal law 122-95, but congress can rescind that law anytime they sense enough public concern.



Overview of Small UAS Notice of Proposed Rulemaking For Commercial Operations

Summary of Major Provisions of Proposed Part 107

The following provisions are being proposed in the FAA’s Small UAS NPRM.

Operational Limitations	<ul style="list-style-type: none"> • Unmanned aircraft must weigh less than 55 lbs. (25 kg). • Visual line-of-sight (VLOS) only; the unmanned aircraft must remain within VLOS of the operator or visual observer. • At all times the small unmanned aircraft must remain close enough to the operator for the operator to be capable of seeing the aircraft with vision unaided by any device other than corrective lenses. • Small unmanned aircraft may not operate over any persons not directly involved in the operation. • Daylight-only operations (official sunrise to official sunset, local time). • Must yield right-of-way to other aircraft, manned or unmanned. • May use visual observer (VO) but not required. • First-person view camera cannot satisfy “see-and-avoid” requirement but can be used as long as requirement is satisfied in other ways. • Maximum airspeed of 100 mph (87 knots). • Maximum altitude of 500 feet above ground level. • Minimum weather visibility of 3 miles from control station. • No operations are allowed in Class A (18,000 feet & above) airspace. • Operations in Class B, C, D and E airspace are allowed with the required ATC permission. • Operations in Class G airspace are allowed without ATC permission • No person may act as an operator or VO for more than one unmanned aircraft operation at one time. • No careless or reckless operations. • Requires preflight inspection by the operator. • A person may not operate a small unmanned aircraft if he or she knows or has reason to know of any physical or mental condition that would interfere with the safe operation of a small UAS. • Proposes a microUAS option that would allow operations in Class G airspace, over people not involved in the operation, provided the operator certifies he or she has the requisite aeronautical knowledge to perform the operation.
Operator Certification and Responsibilities	<ul style="list-style-type: none"> • Pilots of a small UAS would be considered “operators”. • Operators would be required to: <ul style="list-style-type: none"> ○ Pass an initial aeronautical knowledge test at an FAA-approved knowledge testing center. ○ Be vetted by the Transportation Security Administration.

(continued from previous page)

	<ul style="list-style-type: none">○ Obtain an unmanned aircraft operator certificate with a small UAS rating (like existing pilot airman certificates, never expires).○ Pass a recurrent aeronautical knowledge test every 24 months.○ Be at least 17 years old.○ Make available to the FAA, upon request, the small UAS for inspection or testing, and any associated documents/records required to be kept under the proposed rule.○ Report an accident to the FAA within 10 days of any operation that results in injury or property damage.○ Conduct a preflight inspection, to include specific aircraft and control station systems checks, to ensure the small UAS is safe for operation.
Aircraft Requirements	<ul style="list-style-type: none">● FAA airworthiness certification not required. However, operator must maintain a small UAS in condition for safe operation and prior to flight must inspect the UAS to ensure that it is in a condition for safe operation. Aircraft Registration required (same requirements that apply to all other aircraft).● Aircraft markings required (same requirements that apply to all other aircraft). If aircraft is too small to display markings in standard size, then the aircraft simply needs to display markings in the largest practicable manner.
Model Aircraft	<ul style="list-style-type: none">● Proposed rule would not apply to model aircraft that satisfy all of the criteria specified in Section 336 of Public Law 112-95.● The proposed rule would codify the FAA's enforcement authority in part 101 by prohibiting model aircraft operators from endangering the safety of the NAS.

FMS P-47G Razorback High Speed PNP from Diamond Hobby



Scale looks and a top speed of more than 100 MPH (160km/h), this model truly is a thunderbolt!

An Excerpt from a Review by Ralph Squillace

Wingspan:	38.6" (980mm)
Wing Area:	261 sq in (16.8 sq dm)
Weight:	42.3 oz (1200g)
Length:	34" (865mm)
Construction:	Expanded polyolefin airframe and drop tank; polycarbonate canopy; plastic pilot bust and scale details; plastic wheels with rubber tires; nylon propeller with plastic spinner
Wing Loading:	.16 oz/sq in (71.4g/sq dm)
Claimed Speed Range:	Up to 104MPH (167.4km/h)
Servos:	Four FMS FMS-092 9g metal-gear digital; two FMS FMS-093 9g nylon-gear digital
Transmitter:	Airtronics SD-6G six-channel spread spectrum aircraft
Receiver:	Airtronics 92224 six-channel spread spectrum aircraft
Battery:	Predator 2600mAh 4S 35C with JST-XH balancing plug and Deans Ultra-Plug compatible power plug
Motor:	FMS PAEP 3648 outrunner; 770Kv
Propeller:	FMS 10.5x8 four-blade
ESC:	FMS FMS-DT70 70A programmable brushless
Operator Skill Level/ Age:	Intermediate/Advanced; 14+
Manufacturer:	FMS Model, 3/F, Building B, 3rd Industry Zone, Matigang, Dalingshan Town, Dongguan City, PRC
Available From:	Diamond Hobby, 553 Capital Circle SW, Unit 4, Tallahassee, Florida 32304
Price (USD):	\$209.99 plus applicable tax and shipping charges

FMS P-47G Razorback High Speed PNP from Diamond Hobby

(Continued from previous page)

Developed in conjunction with Diamond Hobby and RCInformer.com, this bolt-together, all-EPO model features the same high power propulsion system of the P-40B (reviewed last month in the *Florida Flyer*) in an equally compact air-frame spanning a mere 980mm, or 38.6". The big difference between the two may be in the P-47G's more aggressively pitched four-blade scale prop as opposed to the three-blade prop on the P-40B. In one of their videos linked below, Diamond clocked their high-speed prototype Jug on radar at a screaming 104 MPH (167.4km/h) right out of the box.

For those who prefer their warbirds on the slightly tamer side, Diamond Hobby also sells a standard speed version.

FMS has unquestionably gone from also-ran status to serious contender in just a few short years. The FMS P-47G Razorback High Speed PNP as designed with input from Diamond Hobby and RCInformer.com is, quite honestly, a knockout punch.

This is an excerpt from a review by Ralph Squillace. The very detailed review can be viewed in its entirety at:

<http://www.rcgroups.com/forums/showthread.php?t=2316771&skey=898b42>

Classified Ads

Anyone in the club who wants to sell or buy RC equipment, send an email to seminoleradiocontrolclub@gmail.com with a very short description. We prefer a one or two line description: what it is, condition, price, who to contact and email or phone.

Items for Sale:

Offered by Dan Ouellet, 510-6162, dan@danosoft.com

Item	Qty	Retail	Price	Lot
Spektrum AR500 DSM2 5-Channel Receiver (Used)	1	\$49	\$25	
Spektrum AR600 DSM2 6-Channel Receivers (Used)	2	\$59	\$30	\$50 for 2
Spektrum AR6210 DSMX 6-Channel Receivers (Used)	3	\$79	\$40	\$100 for 3
Spektrum AR6200 DSM2 6-Channel Receivers (Used)	1	\$79	\$40	
Spektrum AR6100e DSMX 6-Channel Receivers (Used)	1	\$59	\$30	
Spektrum AR8000 DSMX 8-Channel Receiver (New)	1	\$129	\$80	\$100 w/TM1000
Spektrum TM1000 DSMX Telemetry Module (New)	1	\$59	\$30	\$100 w/AR8000
Eflite G210 Micro Heading Lock Gyro (Used)	2	\$84	\$40	\$70 for 2
Eflite G110 11 Grams Micro Heading Lock Gyro (New)	1	\$65	\$35	
Detrum GY48V Mini Heading Gyro (New)	1	\$19	\$10	
Eflite 520H 1300 KV 500 Size Outrunner (Used)	2	\$100	\$50	\$90 for 2
Eflite 420H 3800 KV 450 Size Outrunner (New)	1	\$57	\$35	
ParkZone 15 BL Outrunner 720 KV (New)	1	\$49	\$25	
ParkZone 480 BL Outrunner 920 KV (Used)	1	\$45	\$20	

More Items for Sale:

Engine

SAITO FA-82a 4-Stroke Nitro Engine with extras, new in box, \$290, Bill Ashbaker, bill.ashbaker@comcast.net

Electrical Accessory

Thunder Power LiPo Charger Model TP-1010C, like new, \$20, Bill Ashbaker, bill.ashbaker@comcast.net

Seminole Radio Control Club

Tallahassee, Florida

Officers

President	Mike Levine southwoodmike@yahoo.com
Vice President	Randy Yarborough rdyarborough@gmail.com
Secretary	Matthew Hendrix mhendrix85@gmail.com
Treasurer	Bill Ashbaker bill.ashbaker@comcast.net
Field Safety Officer	Jim Ogorek jim.ogorek@yahoo.com
Field Marshal	Gordie Meade lmeade@fsu.edu
Training Coordinator	Geoff Lawrence k4nkc@comcast.net

Media Managers

Web Master	Jeff Owens jfolso@comcast.net
Newsletter Editor & Publisher	Bill Ashbaker bill.ashbaker@comcast.net

Flight Training

Primary flight training is available by appointment on Saturdays from 10:00 am until 2:00 pm when the weather is nice and not too breezy. Contact the Training Coordinator or one of the instructors to make an appointment:

Geoff Lawrence 850-591-6879	Randy Yarborough 850-523-0020
Mike Levine 860-922-4050	Jim Ogorek 850-766-2477
Jeff Owens 850-644-4765	Matthew Hendrix 954-448-2738
Bill Ashbaker 850-656-5932	

Field Hours

Electrics/Sailplanes	9:00 AM till 9:00 PM
Gassers/Nitros	12 Noon till Dusk
Electric Service	8:30 AM till 9:15 PM

The Seminole Flyer is a publication of the Seminole Radio Control Club of Tallahassee, Florida. We welcome and encourage items for publishing in *The Seminole Flyer*. Please submit your suggestions to SeminoleRadioControlClub@gmail.com in Word format. Thank You.

www.seminolerc.com