



March 2018

TREASURER'S CORNER

Nic Burhans



Changes to the FARM Club Members Handbook.

With the continued proliferation of all forms of foam and multi-copter/drone (drone) aircraft and the maturing of First-Person View (FPV) systems in all forms of model aircraft, the FARM Board of Directors has determined that it is time to make changes to the FARM Club Member's Handbook to reflect the current situation in model aviation. These changes also take advantage of the normal morning and evening light winds for these aircraft.

You will have to read both changes carefully to get the total effect of the changes at our flying site: FARM Club FLYING SIGHT RULES Changes:

Current #2:

“2. Field open from 10 AM until dusk daily unless

posted - normally announced in newsletter.”

Change to #2:

“2. Field Flying Hours:

- Friday mornings the mowing crew operations have priority over all flying until completed.
- For all (motor and engine) fixed wing, helicopter, and drone/multi-copter (drone) flying, the field is open from 10 AM until dusk daily; unless otherwise posted. Drone flying can only be conducted during fixed wing/helicopter operations with the express agreement of all flyers present.
- For electric (motor) fixed wing, helicopter, and drone flying, unless otherwise posted, the field is open from 8 AM until 10 AM daily; with First-Person View (FPV) drone flying having priority during this period.
- For drone FPV flying, unless otherwise posted, the field is open from 8 AM to 10 AM or until the first morning fixed wing/helicopter flyers arrive after 10 AM.
- During the period 10 AM until dusk, non drone FPV flying can only be conducted during fixed wing/helicopter operations with the express agreement of all flyers present.”

To be inserted after the current “FARM Club FLYING REGULATIONS” on page 2:

“FARM Club First-Person View (FPV) rules and regulations

Fauquier Aero Recreation Modelers welcomes First-Person View (FPV) flying (fixed wing, helicopter, and multi-copter/drone (drone)) at our FARM Club flying site in accordance with AMA's outdoor FPV (AMA Document #550) guidelines.

- Fixed wing and helicopter FPV is allowed during normal flying hours from 10:00 AM until dusk.
- Except for dedicated, Club sponsored drone FPV events, all electric (motor) drone FPV flying/racing must be conducted between 8 and 10 AM or until the first morning fixed wing/helicopter flyers arrive

after 10 AM or from 5 PM until dusk after the completion of fixed wing/helicopter flying.
- Except for dedicated, Club sponsored, drone FPV events, only one or two course obstacles are allowed and must be placed close to the pilot flight stations for quick removal for safe full-scale operations. Course obstacles must be removed in the morning prior to 10 AM or upon the arrival of the first morning fixed wing/helicopter flyers after 10 AM.

- In all cases, enough dedicated personnel must be present and ready to quickly remove from the runway area all drone FPV course obstacles for the safety of full-scale aircraft operations into and out of the field.

- FARM Club strictly follows FAA FPV 112-95 Section 336 regulations. Although outside of Washington DC-SFRA area, all current FAA regulations will be adhered to by club members.

- In the event of other Club sponsored special flying events being held at the Club field, all drone FPV activities will be suspended until completion of those activities.”

The AMA’s #550 document on FPV specifically outlines “novice” FPV flying requirements as well as “experienced” FPV flying requirements. In either case, an FPV observer/spotter is required with each FPV flyer (fixed wing, helicopter, or drone) during their FPV flying.

AMA has let us know that, at this point, FPV is illegal inside the DC-SFRA. AMA has also let us know that, outside the DC-SFRA, FPV is also controversial in interpretation because the same rule applies but is not being pushed by the FAA, giving concession to the CBO at this point in time, anticipating Congress will fix the problem. AMA has said that, at this point, as long as we follow AMA’s #550 document requirements in our FPV flying, we are good to FPV fly until there is a legal FAA change to the situation. The Board will address whatever the FPV change is when it arrives.

Fly Safe!

Nic Burchans



Kwan Ho (Hobby Hangar) and Chris show us the Flex Innovations CAP 232 - February Club Meeting

EDITOR’S NOTES – Upcoming Events **Jeff Killen**

- 1. Club Meeting, at Warrenton Community Center, 7:00 PM, 3/27/2018**
- 2. Hanover RC Swap Meet and Fun Fly, at Mechanicsville, VA, 8:00 AM, 4/7/2018, hanoverrc.org**
- 3. WEAK Signals RC Exposition, Toledo, OH, All day, 4/6-8/2018, toledoshow.com**
- 4. FARM Fun Day Picnic & Fly #1, at club field, All day, 4/8/2018 (Pilot training and flight check day)**
- 5. Club Meeting, Special Membership Meeting, at Warrenton Community Center, 7:00 PM, 4/24/2018**

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*Presentation on Aerobatic Planes: 3/27/18 Meeting
By Danny Smith, Docent at Udvar-Hazy Museum*

SECRETARY'S REPORT

Jeff Killen

Here are a few notes from the club meeting held on February 27.

There were one new face at the meeting. This was Danny Smith, a docent from the Air and Space Museum. He will be doing a talk at the March club meeting. The folks from Hobby Hangar (Kwan, Chris and one other) came to do a presentation on new equipment in the drone/FPV areas.

Old Business

Dick Sutton put the February newsletter on the website including the table from Ernie's tips and tricks that was separately sent out via email.

New Business

Details for the private tour of the Udvar-Hazy Museum in Chantilly, VA, were announced. This will be held on March 3. Tom T. (engine expert who spoke at one of our club meetings) will be our guide.

Officer Reports

Nic Burhans gave the Treasurer's report. We have 78 members now; 8 pilots need check out. We have \$2304 in the bank currently; income will be light for a few months. Nic may need to float the club some money in November/December. State corporation commission fees have been paid. Taxes have been filed. The two float fly security deposits have been sent in.

The Secretary had no report.

Presentation

Kwan and the folks from Hobby Hangar introduced several items in the drone/quadcopter/FPV areas:

- Spectrum iX12 Transmitter – has Android OS, Bluetooth interfaces, WiFi or phones, audio prompts, touch screen, and wireless buddy box, \$599
- DX20 Transmitter
- FPV Goggles
- Drone from Mavic Air with transmitter, full telemetry, GPS, camera, phone/ipad connections, great video, knows no-fly zones. Chris (pilot for Kwan) uses this drone for professional flying locally. About \$1000.
- Flex Innovations CAP232, foam 60 size, in plug-play or full set up with gyro, 3 modes (easy to advanced), 6s, 5000 mah, model available with lights \$499, without \$450.
- Flex Mamba bi-plane, 6 axis gyro, 3 modes (stock, crowd, expert), 3S, 3200 mah, \$320.

Board Meeting

Nic Burhans gave us several pages to help with budget plans for the year. We will have an open discussion at the April club meeting on membership dues.

Nic provided a handout on FPV rules for the club handbook. Earlier times for electric flying at the field (8-10 AM) are under consideration.

Learn To Fly Better

Dave Rothbart

Below is the itinerary for the upcoming flying classes. Since this is a new event for the club it is subject to change once we get some experience. As always I look forward to your comments and suggestions.

Format for Improving Your Flying Skill Classes

- Class Instruction
- Instructor will demonstrate the maneuver/s for that days class
- Each pilot will then fly with the instructor during which he will be coached
- Second student flight with instructor will be more critically viewed
- Most improved pilot for the maneuver/s practiced will be recognized in the club newsletter & receive a certificate of recognition award
- Instructors will mostly come from pattern community
- There will be a donation box to help defray the cost of lunch

Classes will consist of but not limited to;

- Trimming your plane for stable flight
- Takeoff, Straight Flight, Landing
- Immelmann Turn and Split S
- Loops
- Rolls
- Procedure Turn
- Stall Turn

Advantage of participating in the class;

- It is easier to do than a fun fly event, no unknown and multiple flight maneuvers. Pilots will know the maneuver/s to be flown that day
- This is not a timed event.
- Participants will perform the maneuver as many times as you are comfortable flying

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Flex Mamba bi-plane, from the February Club Meeting