



Table of Contents

Girl Scout STEM Day	2
Udvar Hazy Innovations in Flight	3
F.A.R.M. Float & Fly	5
News and Events	6
June Club Meeting Minutes	7
Editor's Corner	9

[Want to see more here?](#)

[Send your newsletter contributions to carllydick@hotmail.com.](#)

NVRC is one of the largest radio control clubs in Virginia with over 200 members. Our primary flying field is located at Poplar Ford Park and we expect to have a new Lorton site in 2016. The club includes pilots in all areas of radio-controlled flight: Sport, Giant Scale, Electric, Sailplane, Aerobatics, Combat, and MultiRotor. NVRC has members with decades of expertise to share in many types of flying and building. Whether you're a beginner or someone looking for advanced techniques there are volunteer instructors to provide assistance. Don't be timid! Just ask for help!

In existence for over 50 years, NVRC is proud to be a club where everyone is welcome!

Officers and Contacts

President, Carl Brieske, cwbrieske@me.com

Vice President, John Roach, jagroach@verizon.com

Vice President, Mark Franke, mfranke@cox.net

Secretary, Terry Terrenoire, amad2terry@juno.com

Treasurer, Bob Freas, freasman@gmail.com

Safety Officer, Pat Dunlap, pdunlap@cox.net

Chief Flight Instructor, Tony Claridge, tclaridge1@aol.com

Newsletter Editor, Carl Lydick, carllydick@hotmail.com



Girl Scout STEM Day

By Carl Lydick

With the help of NVRC President Carl Brieske and some volunteers, club member **Paul Lukas** pulled off a very successful STEM event with some local Girl Scouts. Although it was damp and muggy the rain did hold off. The girls learned about the parts of airplanes and drones, learned how things fly, honed their skills on a simulator, and then buddy-boxed an actual RC airplane! Club members did demo flights of various aircraft and shared our love of RC with the kids.



A group of Scouts test their new skills on the flight simulator



Paul Lukas running the buddy box



NVRC wants to extend a big THANK YOU to all the club members who came out and volunteered at the event, and an even BIGGER THANK YOU to the parents and scouts who joined us. Everyone had fun and, we hope, learned a few things as well.



Udvar Hazy Innovations In Flight Day:

By John Roach

Innovations in Flight held at the Udvar Hazy Air and Space Museum is just one of those events you have to experience in order to appreciate the fast pace of change in aviation that has occurred since 1903. Volunteering to man the NVRC display on 18 June was an easy way to experience it from the inside with the added benefits of free parking and free lunch.

We agreed to meet at Hobby Hanger and convoy to the museum thru its employee entrance off of Route 50. Carl had previously submitted our names, so we only had to have ID handy as we were checked in by guards at the gate. Staff and volunteers were very helpful to us as we moved our gear from our cars to our display area. Unlike previous years where we set up shop next to the SR-71, NVRC was tucked into a classroom off the foyer of the I-MaX Theater. Hobby Hanger set up shop in the foyer outside our door. **Phil Foss** recognized that we were off the beaten path and would have to go out and bring people in to see our display. He immediately cooked up various ways to do just that and soon had a steady stream of people going past his FPV display whose monitor showed his audience what the camera on his FPV quad was seeing.



Barry Croucher Unloading planes for display



NVRC Member Phil Foss and his FPV setup



Jonathan Grow and the resilient flying wing

Kwang Ko loaned us a simulator. We hooked it up to a large monitor provided by the Smithsonian. Our offer of a rubber-powered model airplane to any child who could take off and land within 3 tries led to a steady stream of kids and parents slamming the sticks about in pursuit of one of those prizes. **Al Norcott** and **Jonathan Grow** took advantage of the AV display in the classroom to play AMA DVDs or flight videos recorded at Poplar Ford. Jonathan had a unique set of videos to share – the maiden flight of his flying wing class project including its crash and subsequent recovery. The cool part was that he added his wing to our display after he eventually found it in the woods near the battlefield.



Udvar Hazy Innovations In Flight Day: Continued

By John Roach

He showed anyone who asked that it was still in working order after spending 11 days lost in the woods. When the AMA showed up to see how things were going, they interviewed Jonathan and asked him lots of questions about his plane.

Barry Croucher, Mark Franke, John Roach, Gordon Slaymaker and Jason Starmer brought model aircraft of all sizes to the display. I brought along a 500 size Minion piloted quad as well as the necessary power cords, outlets boxes, connectors, fasteners and gaffer tape that one needs to put on a show. The NVRC display was impressive.



John Roach's Minion Piloted 500 sized Quad on display

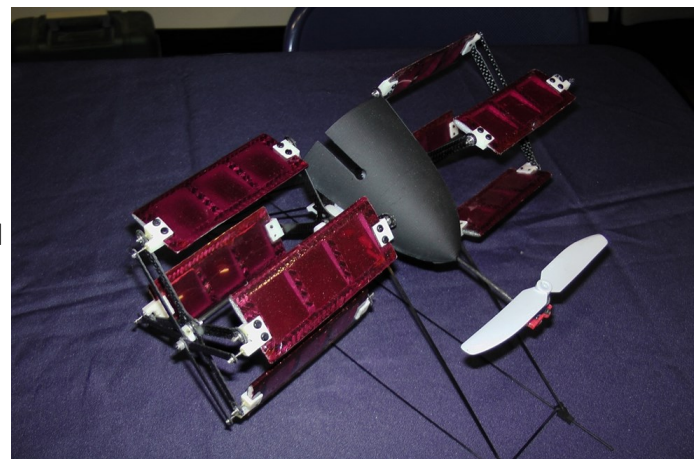


NVRC Club Member Jason Starmer's 1/5 FW-190 D9.

We took turns manning the display and eating lunch. AMA and NVRC literature were provided to anyone who asked it. Most of the visitors were from out of state or from another country. The importance of the event to aviation was brought home to me when I sat with a group of volunteer ground crew on my lunch break. They came to the show to guide aircraft to parking spots on the tarmac. They only attend 2 shows a year – Oshkosh and Innovations in Flight. That put things in perspective for me. Many thanks to those who volunteered to represent NVRC that day.

Reflection on Innovations in Flight Day...

UMD sent several graduate students and their clever flying machines to Innovations in Flight. They set up just outside our classroom door. When I began to ask questions about one of their aircraft, the student expressed amazement that model airplanes were once constructed of balsa and tissue and powered by rubber bands. Here was a kid who thought nothing of using his phone to direct a computer-stabilized craft thru the air but balked at the thought that anything could be made to fly with rubber bands. It was only then that I realized just how much had changed and how far we had come since Kitty Hawk.



RC aircraft designed by UMD Graduate Student



F.A.R.M. Float & Fly:

By John Roach, Images from John and RCGroups.com

The FARM 2016 Summer Float Fly at Lake Ritchie was well attended and held on a beautiful day. Bob Burnett won first prize in the raffle. He won a Flyzone Beaver. Many large amphibians took wing with only a few going for a dunk. Spotters proved their worth with more than a half dozen aircraft in the air or on the water at any one time. Tony Claridge flew his highly detailed Beaver and was pleased to find it well-mannered in flight.



Bob Burnett claiming his prize!



For more pictures from this event check out the NVRC Forum on RC Groups at <http://www.rcgroups.com/forums/showthread.php?t=1959354>.



News and Events:

NVRC President Update

Our Club President, Carl Brieske, has recently had an unexpected medical procedure. He is doing fine but will be focused on his recovery and health for the next several months. As a result he has decided to resign as NVRC President. We wish him a speedy and full recovery and look forward to seeing him back out at the field!

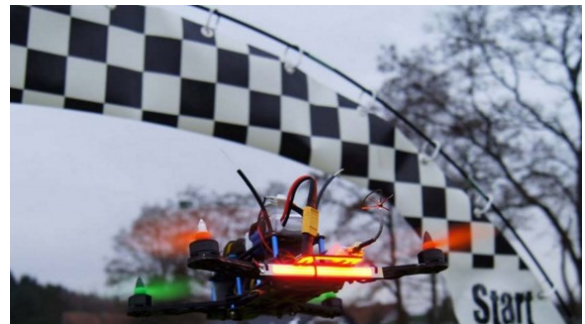
The board has approved Mark Franke to act as Interim President. He will assume those responsibilities immediately, and he will also continue to oversee bringing the Lorton field online.

Summer Meeting Location

The July 21st club meeting will be held back at the firehouse (NOT at Poplar Ford as previously announced). Possible outdoor club meetings will be discussed and we may target September for a meeting at Poplar Ford in the hopes of more pleasant temperatures.

July 24th—FPV Racing at Poplar Ford

NVRC and Hobby Hangar will be hosting an FPV event at Poplar Ford. Hobby Hangar will be onsite selling spare parts and will provide gates for racing. Pilots must be AMA members. Pilots pay \$20 to fly that day or pay to join NVRC onsite.



August 13th—Annual Biplane Contest

Get your Bipe's ready and come out to participate in NVRC's annual Biplane contest. In past years all aircraft have been welcome, but biplanes are awarded EXTRA points. We'll be updating the website with additional details as they become available.





June Meeting Minutes:

By John Roach

Meeting held on 16 June, 2016

- **Paul Lochirco** was welcomed as a new NVRC member. The club president, Carl Brieske was under the weather and unable to attend the meeting. He was reported as doing OK. John Roach ran the meeting in his absence.
- **Lorton Field VP Report** – Mark Franke was also unable to attend, but sent a message that Bob Freas said the Lorton field may be open by July. Mark was placing signage and a simple gate on its access road to control entry.
- **Poplar Ford VP Report** – A pedestrian path from the spectator area, along the approach and east into the newly cleared area will be cut this summer. It will access shade trees on the east side of the FPV area. Routing the path along the edge of the approach would alert members to FPV activity. Paul suggested that a flag be placed near the approach to signal FPV use.

An instrumented flying wing was lost in the woods on its maiden flight. It was recovered after 11 days of diligent searching. Searchers might have found it more quickly if it had been equipped with a recovery device such as a “Be Found,” a blue tooth “Loc8tor,” or a recovery radio transmitter. Searchers encountered numerous ticks, several snakes including some copperheads, and other critters of note. Please be careful in the woods. Map vectors drawn from eyewitness accounts of the flight accurately plotted its last known position, which was close to where it was found, but it had flown further from the field than anyone guessed. It landed on our side of Bull Run, but beyond the intermittent stream that marks the park boundary. Video recovered with the aircraft showed that it immediately fell to the ground after hitting a tree. Lessons learned from this exercise included the need to equip our aircraft with a recovery device, eyewitness estimates of last known position are valuable to a search, and we tend to underestimate the distance to a crash site.

All mowers are in operating condition. Someone failed to pack away a portable shelter, 12 June, with the result that high winds damaged it. Many of our members require shade to safely fly at Poplar Ford during the summer. Parts of damaged shelters will be combined to make one working shelter in the hope that we will soon have a permanent shelter installed. Members are requested to pack out their trash rather than discard it in the trash can by the shed. The last time that I took home the trash, its liquid component spilled in my truck and stunk it up.

- **Treasurer’s Report** – Bob Freas was unable to attend, but sent word that we are solvent.



June Meeting Minutes—Continued:

By John Roach

- **Upcoming Events** – 18 June Innovations in Flight at Udvar Hazy. 10 members signed up to represent the AMA and the NVRC at a display near the museum's I-MAX theater. They would receive free on-site parking and lunch. The merit of simulators to the display was debated by the members. It was agreed to provide one in the display.

CASA scheduled its electric fly-in, "Sizzle," for 18 June. A CASA member described it as very worthwhile. The NVRC webmaster posted an ad for Sizzle on our website.

25 June F.A.R.M. 2016 Summer Float Fly at Lake Ritchie was brought to the attention of the members.

Plans to convene an FPV racing event at Poplar Ford on 23 July were mentioned in passing. Participants must be AMA members. They may pay an entry fee or join NVRC on the spot that day. Hobby Hanger will be there to help host the event and will have drone parts on hand to sell.

- **Old Business** – NVRC was awarded a TAG grant in the amount of \$1000 this year. We requested the money to purchase radios, chargers, batteries, aircraft, and a training equipment shed. After discussion, the membership voted to authorize Tony Claridge to immediately purchase a radio and other necessary training supplies. Possible purchase of a shed was referred to Mark Franke, who was to confer with Park officials to determine whether they would allow placement of a training shed on the flying field. Lorton field is also in need of a shed to house a mower on site. Purchase of 2 sheds was undertaken as a means to reduce the cost of each shed.

The membership requested that the Board expedite purchase of a weather shelter for Poplar Ford. John Pruitt volunteered his assistance to Bob Freas in the preparation of County approved drawings for a weather shelter at Poplar Ford. John works at an architectural firm and is familiar with the County approval process.

- **New Business** – Paul asked about the additional fee that would apply to members who fly at the Lorton field. Ken explained the need for such a fee as well as the constraints under which Lorton would operate in comparison to the operating hours of Poplar Ford. Dave drew attention to the coast Guard Fly Over scheduled for noon the next day.
- **Show and Share** – Don Sczzur was first at bat describing radio setup tips he uses to optimize the flight of his planes. He offered to help members at the field with their radio setups. Gordon Slaymaker showed a homemade discharge rig made from two, 12 V automobile light bulbs wired in series that can discharge any 3s or 4s battery pack down to storage level in less than 30 minutes. He monitors cell voltage thru the balance leads during discharge and keeps a timer with him to remind him to periodically check on the status of the batteries as they are being discharged. John Pruitt described the addictive nature of Flitetest.com in his discussion of air to air combat competition involving streamer cutting and other means of winning. John Roach showed the galloping ghost pulsed proportional radio he used with his first RC aircraft along with that aircraft. He suggested that his less than complete mastery of fixed wing flight might be in part due to his early experiences with rudder-only control. He then showed a newly kitted release of his old model and pledged to have it ready for next year's model building contest in order to see if it flew any better than his original aircraft. Don Sczzur won the \$20 gift card drawing for Show and Share.



Editors Corner:

By Carl Lydick

Its going to be Christmas in July, or at least it feels like it! My favorite RC event of the year is in 2 weeks and I'm racing to wrap up and repair several projects. July 14th-17th will be the third annual "Flite Fest" (flitefest.com), an all electric fly-in put on by the hosts of the popular YouTube channel "Flite Test". This event is unlike any other RC event I've attended in that the focus is slanted more toward beginners and building, with three large "Build Tents" and free supplies provided. This allows someone new to RC to build an airplane and take it right out to the flight line, where someone is waiting to help them get in the air. The event this year will also feature a LOT of combat events, night flying, an attempt at a Guinness World Record for most RC aircraft flown simultaneously, group building sessions, and several "themed" flights. There are always a few surprises too. In past years there have been ridiculous "Community builds" that bring people together on large projects that sometimes even manage to fly!



Team of builders works on a "Community Build"



And it FLIES!



The 2015 "Build Tent". This year will have even more capacity!

building is a lost art within RC, but at this event you have build tents full of hundreds of people (most of them quite young) who are learning and having a great time building their own aircraft. While most start with simple foam board planes there are many who are eager to learn more advanced techniques. There is even a class on balsa building that has already filled to capacity!

If you're a hardcore scale modeler this event may not have the aircraft you're interested in, but the people and comradery couldn't be better. The hosts like to say "bring the people you love and the planes you don't". I tend to bring both airplanes AND people I love, but it is definitely the people that make an event like this great.

In addition to the flying (and crashing) that will be going on there will also be several large classes put on by experienced modelers. I'm looking forward to helping out with a class on using hotwire bows to cut wings and a second class on various methods to apply fiberglass. I often hear people lament that