



The Flightline



Volume 46, Issue 9 Newsletter of the Propstoppers RC Club AMA 1042 September 2016



President's Message

Fields are in great shape so enjoy the flying. Just a reminder that we will put on a flying show for our host the Gateway Church on Saturday 17th September. They will be having a picnic with various games etc. for their members, especially the kids. They have asked us to put on flying displays during this event.

We will start at 3 pm and fly till dark if we wish. Drinks and nibbles will be provided for our members. Bring something if you wish. Please support this worthy event.

Dick Seiwel, President

*Agenda for September 13th Meeting At
At the CA Church Room
Meeting 7:00pm till 8:30?
Flying before.*

1. Membership Report
2. Finance Report
3. Club Calendar Review
4. September Church Demo Plans
5. Show and Tell

Minutes of the Propstoppers Model Airplane Club Mick Harris for Dick Bartkowski Secretary

The August meeting was held at the C. A. field with 14 members in attendance.

Due to the absence of Dick Seiwel the meeting was chaired by VP Chuck Kime, with the minutes being taken by Mick Harris due to the absence of Dick Bartkowski.

The meeting was reminded that the club picnic will be held on 20th August at the C. A. field starting at 3:00 pm and continuing till dark.

The Church picnic is on 17th September, and they will take care of cutting the grass on the entrance side of the runway.

The club will provide candy bombers for the kids and will also give a flying display.

The next club meeting will be held indoors.

The meeting was adjourned to allow flying, but again the participation was somewhat limited by the gusty conditions.

But chewing the fat continued with a large contingent till almost dark, at which point someone flew a model with lights. Great fun!

Mick Harris for Dick Bartkowski

“A Superior pilot is a man who uses his superior judgment to avoid the use of his superior skill.”

From a Royal Air Force flight safety poster by courtesy of Air Vice Marshal Kenneth W Hayr CB, CBE, AFC

RAF Inspector of Flight Safety 1976-79

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Next Club Event

Church kids flying demo

September 17th, 2016 from 3:00 PM to dusk

Calendar of Events

Club Meetings

Monthly Meetings

Second Tuesday of the month.

Gateway Community Church at the Christian Academy. Doors open at 7:00

Next Meeting; 13th September at the Gateway Church room.

Tuesday Breakfast Meeting

Tom Jones Restaurant on Edgemont Avenue in Brookhaven. 9 till 10 am. Just show up.

Flying after in the summer at CA or Elwyn Field 10 am. Weather permitting.

Indoors at the Brookhaven Gym in bad weather 10:30-11:30 See dates allowable.

Regular Club Flying

At Old Christian Academy; **Electric Only**
Monday through Friday after school till dusk

Saturday 10 am till dusk

Sunday, after Church; 12 pm till dusk

At Elwyn Field; Gas or Electric

Monday through Saturday 8 am till dusk

Sunday 12 pm till dusk

INDOOR Flying, see attached dates.

Special Club Flying

Saturday mornings 10 am

Wednesday Helicopter evening in summer

Thursday evenings in the summer

Tuesday mornings 10 am weather permitting after breakfast.

Check our Yahoo Group for announcements;

<http://groups.yahoo.com/group/propstoppers/>

Beginners

Beginners using due caution and respecting club rules may fly Apprentice or similar models without instructors at Christian Academy Field.

The club also provides the AMA Introductory Pilot Program for beginners without AMA insurance.

Propstoppers RC Club of
Delaware County, Pennsylvania.

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The Goldberg Valkyrie

This one is from this month's MA and is a twice sized version built at the Joe Nall over the last seven years.



This one was given to me at the SAM Champs in Las Vegas in 2007.

This iconic model has 1000 pieces of 1/8 in square balsa in the wing alone. Unfortunately quite a few of them were broken and I never got around to fixing it. Stored it for a long time though!

Dave



Another Fine Picnic

Absent grill master Bartkowski VP Chuck Kime stepped in and did a fine job as evidenced by the lineup in the picture below. Your editor, in charge of chips and plates failed to unload them from the van! Still they will be used at the September 17th Picnic / Flight Display for the Church.



It was a fine but warm calm day early, when we could have used a breeze, but it did cool off somewhat and the breeze did arrive to slow down the flying a bit towards the end. Although your editor left before dusk and there were a good number of CA flyers still present so who knows, maybe the best flights were left to the end.



"Release the Kraken!"

I talked one of the guys here at Crosby Landing Beach to take a leap into the world of Flite Test scratch building with the FT Versawing. He likes flying wings and, of course, fell in love with the Versawing right away. But, he also likes to go BIG. So, on the only rainy day in the last two months, we spent a marathon 7 hours building the FT Kraken.

.This six foot span, twin motor, wing is a true monster that dwarfs the original Versawing.



The first flight was smooth as silk with no bad tendencies at all. The launch however, given our lack of anything that could remotely serve as an adequate runway, required us to develop a new two handed launch technique.



Once in flight, the twin motors set up an interesting harmonic "growl" that gave a very nice scale feeling to the flight. Next day the fun continued with an in-air release of a "piggy back" micro Pitts Biplane. "Will the fun never stop?"

Pedro's Dream

Can't sleep, thinking about models and flying? What to do? Go to the workshop? Surely not..... Well, just this little task, solder new ESC connectors; great. Let's see if it works. Yikes, all I need now is a camera

https://drive.google.com/file/d/0B-fPGWJ2qJC_d3ptTkJ6bF1rTzQ/view?usp=sharing

Pedro Navaro



Those Darned Drones

London woman dies in possibly the first drone-related accidental death

Scotland Yard said officers were investigating reports of a drone being flown near Wandsworth Prison when the crash occurred. A young woman died in a car crash Tuesday after her vehicle was followed by police investigating reports of a drone being flown near Wandsworth Prison in London.

A young woman died in a car crash Tuesday after her vehicle was followed by police investigating reports of a drone being flown near Wandsworth Prison in London. The incident may be the first fatality linked to the non-military use of drones.

Scotland Yard said police were called to a road near the jail just after 3am Tuesday morning, to investigate reports of a drone being flown near the prison grounds.

In a statement, Scotland Yard said: "Officers arrived and a car was seen to leave the scene. Officers followed the vehicle and at 3.10am it was seen to have been involved in a collision in Ashcombe Street at the junction of Wandsworth Bridge Road." "At this stage, it is believed no other vehicle was involved the collision. The London Ambulance Service and London Fire Brigade attended. "One occupant of the car, a woman in her 20s, was pronounced dead at the scene."

Police said the driver of the car, a man thought to be in his 20s, is now in critical condition in a west London hospital.



The accident comes a day after The Independent reported that police are having to investigate [a fourfold rise in the number of reports of suspicious activity involving shop-bought drones](#). Drone reports to police soar 352% amid urgent calls for regulation. It also follows incidents of [drones being used to smuggle contraband](#) including so-called 'legal high' drugs to prison inmates.

Drone drug drop into Ohio prison yard sparks inmate fight

Package dropped in recreation yard contained heroin, marijuana and tobacco

The Associated Press Posted: Aug 04, 2015 12:34 PM ET Last Updated: Aug 04, 2015 12:43 PM ET



Officials in Ohio say video footage shows that a drone was used to fly over a prison recreation yard and drop a package containing drugs and tobacco, just before a fight began. (Reuters)

A drone dropped a package of drugs into a prison yard while inmates were outside, sparking a fight, prison officials said.

The package was dropped July 29 at the Mansfield Correctional Institution, about 105 kilometres southwest of Cleveland. It contained almost a quarter of an ounce (seven grams) of heroin, over two ounces (57 grams) of marijuana and more than five ounces (140 grams) of tobacco, JoEllen Smith, a spokeswoman for the Department of Rehabilitation and Correction, told the Mansfield News Journal.

Smith said there have been other instances of drones breaching security and the agency is taking steps to increase awareness and improve drone detection. According to the department, video footage showed the drone over recreation yards immediately before a fight began. An investigation determined the drone dropped a package intended for an inmate on the north recreation yard, and it was then thrown over a fence to the south recreation yard.

Two corrections officers called for assistance and ordered the inmates to stop fighting, according to the department. They used pepper spray to control the fight. About 75 inmates in the north recreation yard and 130 on the south recreation yard were taken to the gyms, where they were strip-searched, run through a cell sensor and checked by a clinic. The nine people involved in the fight were placed in solitary confinement. No staff members or inmates were injured, the department said.

Last year, the Mansfield post of the Ohio Highway Patrol increased efforts to watch and catch criminals who throw contraband over prison fences.

Contraband from heaven? 3 men indicted for plan to smuggle drugs, porn into prison via drone



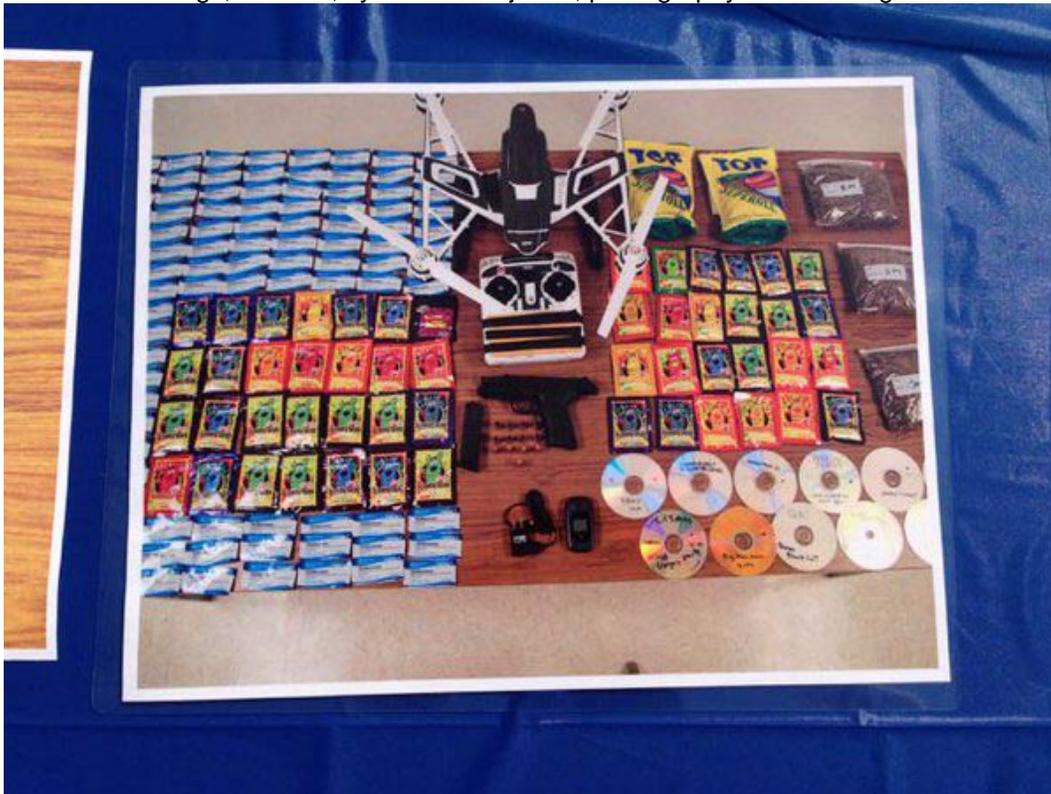
Three Maryland men, including one serving a life sentence as a convicted murderer, were allegedly looking to the skies when trying to sneak drugs and porn into a prison via drone. Sadly for them, the sky fell when police caught onto their plan. Now, the three have been officially charged with crimes.

Inmate Charles Brooks, 43, was indicted on 33 misdemeanor accounts by an Allegany County grand jury, including possession with intent to deliver contraband, drug possession with intent to distribute, and possession and receiving a telecommunications device, according to a statement by the Maryland Department of Public Safety and Correctional Services. Already serving a life sentence, Brooks now faces at least three years in prison for each count. He also faces a fine of up to \$25,000 for each count.



The other two men – Thaddeus Shortz, 25, and Keith Brian Russell, 29 – were charged with 39 felony and misdemeanor counts, including possession and intent to deliver drugs and possession of a firearm in a drug trafficking crime. The seven felony counts against the men each carry sentences of up to 20 years behind bars. Each misdemeanor account also carries prison sentences of at least three years and fines of up to \$25,000. Both Shortz and Russell were former inmates of the prison, Reuters reported.

“This is the first case in Maryland where a drone is suspected in a contraband delivery plot,” state Public Safety and Correctional Services Secretary Stephen Moyer told reporters, according to CNN. The plan was allegedly set to take off on August 22, when Shortz and Russell were found by police apparently preparing a drone for a flight into the prison on a road near the Western Correctional Institution in Cumberland, Maryland. Officers found drugs, tobacco, synthetic marijuana, pornography and a handgun inside their car



Contraband that two people were allegedly trying to fly into a#Cumberland prison. With #drones.

Shortly after Shortz and Russell were arrested, authorities said contraband was discovered in Brooks' cell during a search. Police said Brooks had a phone, tobacco and porn in his possession, according to Reuters.

However, it's unclear how police ultimately linked Brooks to Shortz and Russell.

This may be the first suspected drone plot in Maryland, but unmanned aerial vehicles have already been used in other plots around the US. In August, a drone dropped a package of drugs and cell phones into a prison yard in Ohio, sparking a riot among the inmates who came across the package.



Meanwhile, innovators in Russia [recently delved](#) into the past in their jail-smuggling efforts. A man and woman were detained while reportedly trying to deliver contraband and phones to inmates by shooting them onto prison grounds with a crossbow.

Last year, a cat was caught at a prison check point in Komi in northern Russia. The furry feline was found to be carrying several cell phones which were attached to its body with duct tape.

International prison smuggling techniques have seen trained birds and kids drawings smothered with narcotics.



New FAA rules on small drones kick in today:

What you need to know

By **Samantha Masunaga** *LA Times* 8/29/2016

For companies that want to use small drones, a new era began Monday.

That's when rules kicked in that free them from having to request special permission from the federal government for any commercial drone endeavor — a waiver process that often took months.

Although industry experts say the Federal Aviation Administration's new rules on commercial drones largely make it easier for companies to use the unmanned aerial vehicles, there are still a lot of constraints.

Here's what you need to know.

What do the rules say?

Under the [new commercial-drone rules](#), operators must keep their drones within visual line of sight — that is, the person flying the drone must be able to see it with the naked eye — and can fly only during the day, though twilight flying is permitted if the drone has anti-collision lights. Drones cannot fly over people who are not directly participating in the operation or go higher than 400 feet above the ground. The maximum speed is 100 mph.

[As drones fill the California skies, lobbying efforts in a budding industry push back against drone regulations »](#)

Drones can carry packages as long as the combined weight of the drone and the load is less than 55 pounds.

Before Monday, people needed a pilot's license to fly a commercial drone. Under the new rules, people over age 16 can take an aeronautical knowledge test at an FAA-approved facility and pass a background check to qualify for a remote pilot certificate.

What if companies have plans that would break those rules?

Businesses can apply for a waiver of most of the operational restrictions as long as they can prove their proposal will be safe.

The new set of rules "just standardizes the exemption process and lowers the barrier to entry," said Arthur Holland Michel, co-director of the Center for the Study of the Drone at Bard College.

But, he said, the new waiver process will probably help regulators understand how companies want to use drones beyond these initial, limited regulations. That could one day lead to rules for more complex drone operations, such as those proposed by Amazon or Google.

What types of industries will benefit most from these rules?

Real estate, aerial photography, construction and other industries that want to use drones for basic functions, such as taking a few photos or videos of a property, probably will benefit the most because their plans align more closely with the regulations, industry experts said.

[NEWSLETTER: Get the day's top headlines from Times Editor Davan Maharaj »](#)

But companies with more ambitious or capital-intensive plans, such as oil and gas firms that want to investigate pipelines, or farmers that want to look at large fields, will largely be limited by restrictions such as the visual line-of-sight rule. Even security companies that want to have drones patrol after dark will need to apply for a waiver if they want to operate.

What about drone delivery companies?

Although the new rules allow drones to carry loads, the visual line-of-sight rule and the weight restriction will keep more ambitious companies with plans for long-distance travel, such as Amazon, from making significant deliveries that way.

Will these rules lead to a huge increase in commercial use of drones?

It's hard to tell because the industry is so new, Holland Michel said.

The elimination of the pilot's license requirement lowers the barrier to entry — operators just need to get their remote pilot certificate and register their drone — but it's not clear whether users will think it's worthwhile to invest in drone operations with the current restrictions, he said.

Gretchen West, senior advisor at law firm Hogan Lovells and co-executive director of the Commercial Drone Alliance advocacy group, said she expects to see an uptick in use once the rules take effect.

But regulations are only one obstacle to wider adoption of commercial drones, she said. Many enterprise companies are averse to risk, and issues surrounding privacy and public perception still need to be addressed.

"There's still a lot of challenges we have to overcome as an industry to prove the value of drones, even outside the regulatory environment," West said.

RC Groups Take the FAA Commercial Drone Test



Taking the FAA 107 Test - August 29th marks the beginning of Part 107 Remote Pilot testing. I was lucky enough to get in on the first day. Here's how it went down.

http://www.rcgroups.com/forums/showthread.php?t=2729603&utm_source=newsletter&utm_medium=email&utm_content=Click%20here%20to%20learn%20more.&utm_campaign=sep2

"I'll start right in by saying the title of this article is a bit of a misnomer; I figured out this afternoon as I filled out paperwork and scribbled my signature a few hundred times (I think I signed my name less when we bought our house!) that the name of the test is called the UAG, or Unmanned Aircraft - General. The certificate type is Remote Pilot, and the rating is a Small Unmanned Aircraft System. Finally, Part 107 is the FAR, or Federal Aviation Regulation. Now, with that out of the way, let's talk about what I experienced, and more importantly, what you can expect when you show up at your local testing center to take the UAG."

Links

[CATS Testing](#)

[FAASafety.gov](#)

[FAA Integrated Certificate and/or Rating Application System](#)

Could this be the first 'real' flying car?

\$600,000 'flying motorbike' can hit 112mph on land AND in the air

By [MARK PRIGG FOR DAILYMAIL.COM](#) PUBLISHED: 11:48 EST, 22 August 2016 | UPDATED: 14:15 EST, 22 August 2016

- **It switches between drive and flight mode in just 10 minutes**
- **The Pal-V One Liberty edition will be delivered next year**
- **Owners must have a driving license and a Sports Pilot Certificate**
- **The vehicle reaches speeds of 112mph and flies at altitudes of 4,000ft**

Its 50 years since the Jetsons first predicted we'd be flying the family about in airborne cars. And experts say we are tantalizingly close to the dream becoming reality. They have voted the Pal-V One Helicycle, a two-seat hybrid car and gyrocopter, the 'most likely to become a reality.

Video; <http://www.dailymail.co.uk/sciencetech/article-3753369/Could-real-flying-car-600-000-flying-motorbike-hit-112mph-land-air.html#v-894238376283817045>



The Pal-V craft switches between drive and flight mode in just 10 minutes, and the Pal-V One Liberty edition will be delivered next year to the first customers.

Maxim magazine recently selected PAL-V as the most likely company to deliver a 'real' flying car. 'Clearly it is impressive that a magazine with a readership of close to 9 million people would recognize the work we have done to create a flying car that actually conforms to existing regulations and is safe to fly,' said Robert Dingemans, the firm's CEO.

He promises 'significant updates' in the next several months as the firm begins manufacturing of the PAL-V Limited Edition model.

The firm also says it is 'very advanced' in certifying the product in Europe under EASA CS 27 regulations. Once finalized this will allow them to certify under FAR 27 regulations on this side of the Atlantic.

The firm says its design is 'The ultimate vehicle to go wherever and whenever you want to, easily overcoming all sorts of barriers. 'Now you can leave home and fly-drive to almost any destination! Avoid traffic jams and cross lakes, fjords, rivers or mountain ranges like an eagle. 'Land on the other side and drive in your own vehicle to your final destination.'

The two-seater vehicle converts from a three-wheeled motorcycle to a gyrocopter in 10 minutes. It has 230hp, four-cylinder engine and reaches speeds of up 112 mph in the air or on the road.



The craft switches between drive and flight mode in just 10 minutes, and the Pal-V One Liberty edition will be delivered next year to the first customers.

The gyrocopter goes from 0 to 60 mph in under eight seconds.

The gyrocopter is designed to cruise at low altitudes (below 4,000ft) and it requires a 540ft runway for take-offs. For landing, the vehicle needs just 100 ft.

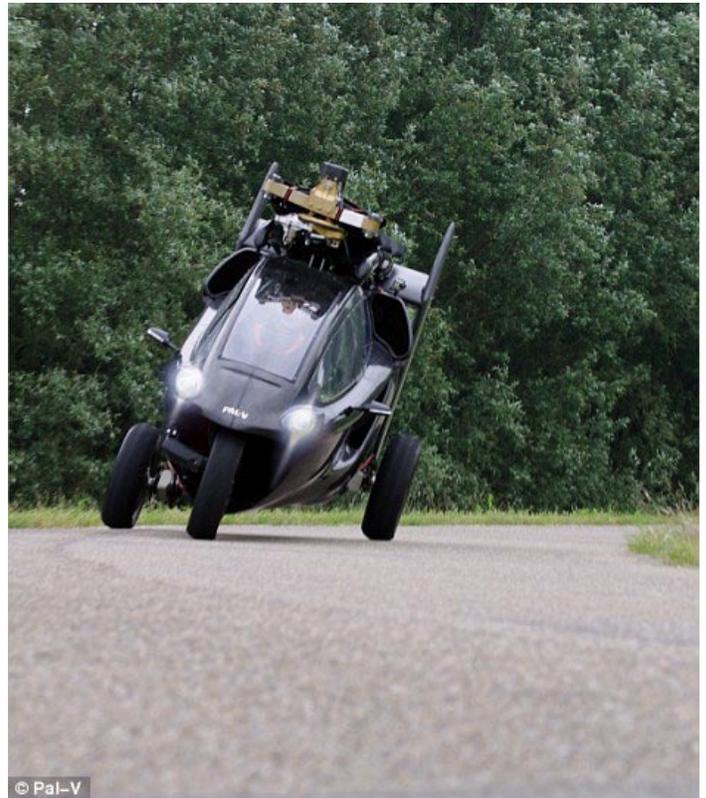
The 27-gallon gas tank provides a 220-mile flight range (750 miles on the road).

It is made from carbon fiber, titanium, and aluminum and weighs 1,499lbs.

Owners must have a Sports Pilot Certificate to fly the vehicle.

It will make just 90, 25 of which have been allocated to North America.

The firm has already flown its design several times.



To drive and fly the Pal-V One, pictured, owners must have a driving license and a Sports Pilot Certificate

'When you have a prestigious brand like Top Gear referring to our vehicle as the world's first plausible flying car and now Maxim men's magazine giving us a thumbs up for the world's first real flying car, it means a lot,' said the firm's Vice President of Sales in North America, Mark Jennings-Bates.

'We have recently started talking to buyers and have the first contracts in place and a lot of interest.

'We anticipate deliveries of a certified PAL-V in North America to happen in 2018.'

'On the ground the vehicle drives like a sports car,' said Pal-V. 'Within minutes its

rotor is unfolded and its tail is extended: then it is ready to take off thanks to the advanced gyrocopter technology.'



'With these successful test results it is proven that it is not only possible to build a flying car but also that it can be done within existing international rules for both flying and driving.'

The Pal-V One features a 230hp, four-cylinder engine powered by petrol. Its 27 gallon tank means pilots can fly for up to 220 miles at low altitudes - around 4,000ft - or drive for up to 750 miles.

It is made of carbon fiber, titanium, and aluminum and weighs 1,500lbs.



The Pal-V One completed its maiden voyage just 18 months ago. It is available in red, pictured, or black. Read more: <http://www.dailymail.co.uk/sciencetech/article-3753369/Could-real-flying-car-600-000-flying-motorbike-hit-112mph-land-air.html#ixzz4I6KmYiCK>

But How About This Flying Car..... Or Drone Van?

Daimler investing about \$560 million to design electric vans that can host aerial deliveries.

According to Daimler, a drone could deliver light packages within short distances of the vehicle. A drone also could take packages to buildings with appropriate landing pads, while the driver delivers heavier packages to locations a drone couldn't access, for example.

"If a parcel service provider stops his vehicle in a residential area, it will be possible to deliver multiple packages to nearby consignees autonomously by air—even if they are not at home—in addition to manual delivery," Daimler said.

<http://www.wsj.com/articles/daimler-to-work-with-matternet-to-develop-delivery-van-drones-1473260565>

