



Wing Tips



November 2018

The Newsletter of the Mid-Hudson Modelmasters

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2018 Club Officers

President: Brad Quick

Secretary: Larry Kunz

Sgt. at Arms: Flavio Ambrosini

Vice President: Scott Fellin

Treasurer: Tom Eng

Junior VP: George Amenta

Club Calendar

Coming Up:

- **CLUB MEETING , Friday, November 16:** At James L. Taylor Mfg. Co., 130 Salt Point Turnpike, Poughkeepsie, NY 12603, time will be sent via our google group.
- **December Wing Tips articles & photo submissions due, Thurs., December 6:** Send your submissions to wingtips@modelmasters.us Due date is first Thursday of each month.

Other Events:

- **MONTHLY MEETINGS:** At Highland Middle School, December 21, January 18, February 15, March 22, April 12. Watch for emails from our Google group for updates and cancelations due to weather.
- **OUTDOOR FLYING SESSIONS AT WEST ROAD FIELD** – Every Saturday Morning, weather permitting.

MEETING MINUTES – October 20, 2018 – Redl Flying Field

- Open flying until 11:00 !
- + A beautiful Fall flying day ! Come fly with us !
- Business Meeting called to order at 11:00
- + Next meeting will be Friday November 16 at James Taylor Manufacturug
- + Brad has arranged the winter meeting schedule at Highland Middle School: Fridays... 12/21, 1/18, 2/15, 3/22, 4/12
- + Jim Wood's estate sale was the weekend of the meeting – Many old hand made models !.
- Treasurer's report: by Tom Eng
 - + \$1550.52 (\$117.21 of which is the mowing fund) plus \$500 in escrow at Highland Middle School.
 - + \$220 web bill about to be paid.
 - + 2018 membership stands at 39.
 - + Membership for 2019 will remain \$25 if paid by Jan 1, and \$35 thereafter
- Group Build:
 - + We will have another group build at Brad's workplace.
 - + This will be the Science Olympian official rubber band powered model.
 - + See our website for the materials needed.
- Show & Tell:
 - + Bret showed the fuselage and main wing of his new project.



Brad Quick's new project

Airbus Perlan provided by Bill Bolitho (reprinted from Propstoppers RC Club)

The Airbus Perlan glider soars above the peaks of the Andes in Argentina.

Submitted by Dave Harding

From: <https://www.nbcnews.com/mach/science/experimental-glider-smashes-record-high-altitude-flight-ncna907586>
by Tom Metcalfe / Sep.07.2018 / 4:56 PM. MACH-NBC News/digital



Riding the wind above the Andes Mountains, an experimental glider has set a world record for high-altitude flight. On Sept. 2, the sleek Perlan 2 glider carried two pilots to 76,100 feet, or more than 14 miles, over the El Calafate region in southern Argentina. That's the highest altitude ever reached by humans aboard an unpowered fixed-wing aircraft, and one of the highest altitudes reached by an aircraft of any description. Only spy planes and specialized balloons have flown higher.

“The biggest impression is, it's a long ways down from up here,” one of the pilots, Jim Payne, said after the record-setting flight, which was one in a series of test flights sponsored by aerospace giant.



The tail camera of the Airbus Perlan glider captured this view from a world-record setting altitude.

Airbus. “The horizon starts to have a curvature in it and the sky is getting darker as we climb. ... It's a fantastic experience, once in a lifetime.” The record eclipses one set during a previous Perlan 2 flight over El Calafate on Aug. 28, which reached an altitude of 65,600 feet.

But the recent outing, which took about five hours, wasn't just about establishing bragging rights. Ed Warnock, the aerospace engineer who heads the Perlan Project, a Beaverton, Oregon-based nonprofit that designed and built the \$3

million glider, said data collected by the glider would help provide a better understanding of high-altitude air currents. That could help commercial pilots avoid dangerous but invisible regions of turbulence.

Perlan 2, which is made of carbon fiber composite material, has an unladen weight of 1,540 pounds, according to Payne. Its wingspan is 84 feet — about twice that of a fighter jet.

Since the Perlan 2 glider is unpowered, its onboard instruments can measure the speed, temperature and chemical composition of high-altitude winds without interference from a hot, exhaust-spewing engine. “This cannot be done with a propeller flight or jet, or from [a] satellite,” Jie Gong, an atmospheric scientist with NASA's Goddard Space Flight Center in Greenbelt, Maryland, told NBC News MACH in an email.

El Calafate is one of the few places in the world where high mountains interact with fast-moving polar winds, a phenomenon that gives rise to powerful “mountain waves” that rise as high as 100,000 feet. Payne said he and his co-pilot, Tim Gardner, reached the record-setting altitude by riding areas of uplift in the waves after an airplane towed the glider to 40,000 feet.

The new altitude record might not last long. Payne said the weather conditions needed to reach high altitudes in the El Calafate region will persist for about another 10 days, adding that he and other pilots involved in the flights hope to reach 90,000 feet in the coming days before the Perlan 2 is packaged up and returned to the U.S..

Interesting Stuff

Lloyd Quick flying his Coroplast Cub in the rain on Nov. 3

