

Cool, cloudy and windy, with threatening skies for our January Plane Crazy Saturday!

Thank you to the pilots who flew in during the changing inclement weather!

Jim Wilhelm reported that he had an approximant 30-knot headwind on the way home to Tehachapi, with some light chop, but nothing unusual.

Thank you to everyone who bundled up and came out to view a few of the airplanes that braved the elements for



our monthly historic aircraft display day!

Erin Hambrick and Phil Moores brought their beautiful shiny Thorp to Plane Crazy! They recently purchased this lovely T-18 from Howard and Elaine Ginn!

The Ginn Family have a long history with T-18's! Quoting from Budd Davisson, in the November 2013 issue of *The Experimenter* magazine published by EAA (Experimental Aircraft Assn.), "The fact that every member of the Ginn family has at least two Thorps, including mom, says

something strong about the T-18's basic design. It must have *something* that attracted the family to it."

The Ginn family includes: Howard, Elaine and sons, Scott and Tony.

"There's an obvious reason the T-18 was so well done and so innovative: Davisson wrote, John Thorp was a longtime, professional aeronautical engineer who happened to like personal airplanes."



BAE Systems was working on Saturday, doing some run up's on a Douglas A-4K Skyhawk owned and operated by DRAKEN International, Inc. out of Lakeland, Florida.

I remember seeing many A-4's on the ramp here at Mojave when Flight Systems was in business.

Developed in the early 1950's, the Douglas A-4 Skyhawk naval jet fighter saw decades of service worldwide with nearly 3,000 aircraft produced.

This A-4K is powered with a Pratt & Whitney J-52-P8C axial-flow turbo jet developing over 11,000 pounds of thrust! (It was very loud and impressive when they were doing engine run-ups!)

Pound for pound, the A-4 aircraft was one of the most effective and versatile light attack aircraft produced.

DRAKEN International, Inc. is a provider of tactical fighter aircraft for contract air services including military and contract customers.



Al Hansen displayed aircraft and our speaker for next month, Roy Martin, had his Cessna 210 on the flightline.



A photograph of Eileen Shibley, Founder and CEO of Monarch, Inc., sitting at a dark conference table. She is wearing a black blazer over a white collared shirt. In front of her on the table is a white hard hat and a black quadcopter drone with four propellers. The background features a wall with the 'MOJOVE AIR AND SPACE' logo, an American flag on the left, and another flag on the right.

MOJOVE
AIR AND SPACE

Eileen Shibley, Founder and CEO of Monarch, Inc. gave an exciting and informative presentation about her company located in Ridgecrest, CA.

It is a California Corporation conceptualizing, designing, and manufacturing drones for commercial applications.

These robotic, and sometimes autonomous systems, produce solutions for commercial applications by supporting precision agriculture, the Energy sector (wind turbines, solar farms,

utility companies, oil companies), and the Civil Engineering Surveying community.

All components are made in-house in Ridgecrest to manage quality control. Monarch, Inc., provides drone services for real estate, agriculture, energy and land survey industries. Their unmanned aerial aircraft use advanced cameras, sensors and advanced software to make detailed and measurable maps of land and objects.

They don't just fly drones, they work with clients to identify problems, and engineer solutions using custom-fitted precision unmanned aerial systems. Shibley told several stories about how their studies of farmer's orchards in northern CA actually solved crop health or production problems.

"We've worked on everything from crop health issues to forensic crime scene aerial surveys, providing our customers with the data product that fits their needs. We also build, outfit and sell drones direct to customers, with training and support," said Shibley.

Their drones make use of innovations like their custom 3D-printed gimbal and patented Cocoon sensor housing, and their company is at the forefront of applications like drone RFID-tagging (radio frequency identification-tagging) and Infra-red sensors.

Their drones is able to remain steady in a 35 mile-per-hour wind due to their custom gimbal system.



The one statement that Shibley made that resonated with several attendees was: "We need pilots!" There are many hobbyists out there who fly for fun, but they could actually have fun and do something beneficial not only for themselves, but know that they are making a difference in this developing industry.

Monarch, Inc. has a 333 waiver from the Federal Aviation Administration (FAA) to fly drones for precision agriculture, survey and data collection.

Many real estate agents have expressed an interest in using Unmanned Aerial Vehicles (UAVs) to take pictures and videos of their listings to show to clients. Currently, the Federal Aviation Administration (FAA) prohibits the use of UAVs for commercial purposes unless the user applies for and receives a waiver from the FAA. Monarch, Inc. already has that issue covered.

Shibley also stated that some of their aerial vehicles already have FAA registration numbers, or as aircraft owners call them, N-Numbers. Their drones or UAV's fly 400-feet or below. "Low and slow," Shibley said.

For more information on Monarch, Inc. please visit these websites: <http://www.monarchmakers.com/>; <http://monarchdrones.tumblr.com/> Mapping, using drone in Bodie, CA – Monarch, Inc. You will be impressed!



Thank you Bill Deaver and Steve Rushford for working the Mojave Transportation Museum table at our January Plane Crazy Saturday! And a BIG THANK YOU to Voyager Restaurant for allowing us to be inside this month!

Thank you Wen Painter for signing in pilots and stamping their historic aircraft forms again this month!

Aviation artist, Doug Castleman braved the cold outside and set up his display of fantastic aviation art! Thank you Doug for coming out again this month! Please check out his website:

<http://douglascastlemanaviationart.com/>
He is now offering prints in canvas, note cards, cell phone covers and more! Go to: <http://fineartamerica.com/profiles/douglas-castleman.html>

Thank you to Rick Hall who came and

displayed some of his fantastic wood carvings of airplanes! Here are some examples:



You may contact him via email: victormontana@msn.com Send a photo of your aircraft and he will make it for you – all for \$20! Rick worked at Lockheed for 40 years and has some great stories to tell too! Thanks Rick for coming to Plane Crazy!

Thank you to our August 2015 – July 2016 PCS sponsors:

Here is our banner listing all of PCS sponsors – THANK YOU ONE AND ALL!

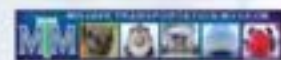


2016 begins our 7th year of PLANE CRAZY SATURDAY at Mojave Air & Spaceport!

THANK YOU FOR YOUR WONDERFUL SUPPORT!

Proud Sponsors Of

Plane Crazy Saturday!

Voyager Restaurant – Mojave
Kieffe & Sons Ford – Mojave/Rosamond
Karl's Hardware – Rosamond/Mojave
Mariah Country Inn & Suites – Mojave
Mission Bank – Mojave, Rosamond News – Rosamond
The Loop Community Newspaper
Wayne & Marlena Rowley



www.mojavemuseum.org



Next month, February 20, 2016, Roy Martin, retired Northrop-Grumman Aerospace Systems West Region Chief Test Pilot, will give a presentation on *Shaped Sonic Boom Demonstration*. This guy is awesome!! Here are just a few of his accomplishments in life! And you won't believe what he has been doing for the past couple of months! You don't want to miss his talk!

Retired Colonel from USAF Reserves
45 years flying experience with over 10,800 flight hours in over 70 aircraft types
Combat missions in Southeast Asia in the F-4 Phantom

Distinguished Graduate of the USAF test Pilot School in 1975
Military Test Pilot at Edwards AFB and USAF Test Pilot School Instructor
Unmanned Vehicle Operator for X-47A Pegasus and TSSAM flight tests
Test Pilot for Design of Command and Control Displays for X-47B UAV
BS degree in Aerospace Engineering from Parks College of St. Louis University
MS degree in Aero and Astro Engineering from Stanford University
Fellow and Past President of the Society of Experimental Test Pilots
Former member of AIAA Flight Test Technical Committee
Currently Consultant Test Pilot