

Fly New Mexico!

Aviation Division

Winter 2016

New Mexico Department of Transportation

Soaring Club Awards 2015 Science Fair Prize

Jared K. Moyers of Albuquerque received the 2015 Regional Science Fair Prize for his aeronautics-related project *"It's Not a Plane, Not a Car, and Not a Boat, It's a Hovercraft"*.

Jared attends Jefferson Middle School. His 7th grade science fair project took first place at his school last spring which moved him on to the regional science fair.

Jared built a three foot long functional model hovercraft from scratch and was able to control its speed and maneuver it through a course, modifying the design and solving problems as they came up.

The Albuquerque Soaring Club Award was in the Special Awards category. The prize included a free sailplane flight at the Moriarty, NM airport. Stan Roeske, the Albuquerque Soaring Club's Chief Instructor and Special Awards Judge, was the pilot-in-command and very pleased to introduce Jared to the sport of soaring.

The Albuquerque Soaring Club (ASC), established in 1960 in Albuquerque, NM, is headquartered at the Moriarty Municipal Airport (0E0) located in Moriarty. Moriarty is in the heart of the Estancia Valley, 35 miles east of Albuquerque.

Moriarty boasts some of the finest year round soaring conditions in the United States, including 15 knot thermals to 22,000 feet, mountain wave to 34,000 feet, and orographic lift off the Manza-



Jared K Moyers is ready to take his first sailplane flight with Albuquerque Soaring Club's Stan Roeske. From the smile on his face, I'd say it won't be his last! Soaring Award photos by Jared Moyers and Joyce Kolberg.

no, Sandia, Ortiz, and Sangre de Cristo mountain ranges. Many flights in excess of 300 miles are recorded each year. ASC flies every weekend, weather permitting.

Maps to the airport and to the soaring site can be found on the Albuquerque Soaring Club's website at www.abqsoaring.org and the website for the commercial glider school at Moriarty, Sundance Aviation, www.soarsundance.com.

Also while in Moriarty, why not pay a visit to the Southwest Soaring Museum. The idea behind the exhibits is to preserve the sport's colorful history and to get young people interested in the only full-scale flying hobby pilots can enjoy solo before they even have a driver's license. See: swsoaringmuseum.org.

For more information on soaring and gliding in New Mexico, see <http://www.newmexicoforvisitors.com/activities/gliding-soaring.htm>.

Continue on through the newsletter to see more photos from Jared's flight.

The Director's Corner



Steve Summers Aviation Division Director

UAV, UAS, or Drones (Chapter Two)

A year ago, I talked a little about what was the beginning interest in the phenomenon centered on UAS (Unmanned Aerial Systems). Although it was expanding exponentially in Europe, here at home, the FAA was trying to grasp the far reaching effect of their integration into the airspace and what level of regulation would be needed. Communities and states also began to look at other issues like privacy and utilization by law enforcement to name a few. In New Mexico, the Game and Fish Department got legislation passed as UAS relates to hunting and harassment of wildlife. Privacy, I think, will be the greatest concern having had my own experience with a quad-copter

in my backyard and stories of other neighborhoods having the same type of invasion.

Now, I started out thinking it would be a blast to fly one after watching a demonstration, but reality struck home one evening when I saw a quad-copter hovering at window height. Although it was over his own property, it was at the right angle to see directly into our home through the upper windows that in the past, we never even had second thoughts about because they didn't have blinds or curtains. That and walking outside changed from that day on. There is definitely a sense of a lack of privacy associated with flying cameras. And where will it stop, especially with 3-D, night vision, and infrared capabilities?

Applications for the use of UAS are endless. We have just begun to scratch the surface. From agriculture to monitoring animals at the zoo and everything in between, including micro drones that help do household chores. There are estimates that there will be a million UAS units sold for Christmas 2015. I think that's going to be a little low, considering you can buy them just about anywhere. Some say they will be as common as cell phones in the near future. I saw a TV commercial with a large number of UAS's hovering outside, the guy says, "don't make any sudden moves". Of course, they all start running and the UASs swarmed all around them. To those of us that have some grey hair it reminded me of the classic Alfred Hitchcock movie "The Birds".

Because of increased pilot sightings and the incident in California that shut down the firefighting effort, NASA is developing an air traffic

control system for low-flying UAS.

The UAS Traffic Management (UTM) system would be like an aerial equivalent of a ground traffic control system using high tech to develop airspace designs, corridors, and geo-fences. Technology got us here; maybe it can get us out.

End of story?.. Not by a long shot!

Talk up AVIATION!!

2016 New Mexico Aviation Conference Save the Date!

The 2016 Aviation Conference is planned for **May 11 – 13, 2016** in beautiful Ruidoso, NM. The conference will kick-off with an Airport Manager's golf tournament, meeting, and welcome reception on Wednesday, 5/11/2016. On Thursday, 5/12/2016, we open the conference with our keynote speaker. Following the opening session, we will have a luncheon and a full afternoon of breakout sessions. We will close with sessions on Friday, 5/13/2016.

Conference information will be sent out after the first of the year. Information can be found at: <http://nmml.org/subsections/airport-managers/>, or by contacting Colette Schobbens 505-992-5573 or Jane Lucero at 505-244-1788 ext. 9111.

Hope to see you in May!

AAAE Airport Pavement Maintenance and Evaluation Workshop

by Angela Archibeque

This year, the AAAE Airport Pavement Maintenance and Evaluation Workshop was held in San Antonio, Texas. On October 21st and 22nd, Aviation enthusiasts gathered to learn more about the problems faced when dealing with airport pavements. Participants came from across the Americas and included participants from the United States, Ecuador and Canada.

Doug Sander, P.E., Program Manager for Delta Airport Consultants, opened up the workshop with *The Who, What, Why, Where, and When of Pavement Maintenance*. He gave us a complete overview that covered operations, as well as safety, business development and the economics related to pavement maintenance.

David Peshkin, P.E., the Vice President of Applied Pavement Technology, presented in detail pavement design concepts, types of pavements, and the performance of pavement types. His pavement introduction, *Pavement 101*, focused on Hot-mix asphalt (HMA) and PCC pavements. It was a good refresher course for those familiar with airport pavements and a very informative course for those who were not familiar with airport pavements. Day Two continued with the second half of *Pavements 102* which discussed pavement evaluation techniques and distress identifications. This presentation discussed the details of data collection and the types of distresses every airport faces with their runways, taxiways and hangars.

Danny Gierhart, P.E., the Regional Engineer for the Asphalt Institute, discussed asphalt pavement repairs for airports. His presentation covered the details of milling and overlays. The group took away important information about asphalt mixtures and drainage.

Mark Snyder, Ph.D, with the American Pavement Association, discussed in depth the types of concrete pavement repairs for airports. In his presentation, he spoke about concrete distressors faced by airports.

The workshop ended with a group effort. The attendees gathered in groups to tackle a mock pavement problem at their artificial airport. The group had to identify the pavement problem and determine a solution to fix the problem while still maintaining daily airport operations.

This workshop provided loads of helpful information about problems that every airport must face. Two days was a small amount of time to digest it all. Luckily for us, the presenters sent us home with their information.

If you are interested in airport pavements, you can find information about this workshop and many others on line at www.aaae.org.

Until next time, keep those pavements in great condition!

More Soaring Photos Continued from page 1

Launch crew preparing the Soaring Club's 2-place trainer for take-off. ▶



Angela Archibeque
Aviation Division Airport
Development Specialist



News From the Planner's Bunker

Jane Lucero, Airport Development Administrator

As Federal Fiscal Year 2015 comes to an end, New Mexico Airports have had a GREAT year for Airport Improvement Program (AIP) funding. Airports within the FAA's National Plan of Integrated Airport Systems (NPIAS) are eligible for AIP funding. The 2011 – 2015 NPIAS includes 50 existing airports and one proposed for New Mexico. We had several projects that were started in FY 2014 and the final phases of funding came in FY 2015. The new Zuni Airport received funding for the second phase of paving. The Runway 3-21 reconstruction in Roswell, the runway extension in Alamogordo, and the crosswind runway in Taos, all received the second portion of their funding in 2015.



New Mexico FY 2015 Federal Grants

Information Current as of December 2015

Sponsor	Airport	LocID	Amount	Project Description
City of Alamogordo	Alamogordo-White Sands Regional	ALM	\$3,483,301.00	Extend Runway - 03/21
City of Albuquerque	Albuquerque International Sunport	ABQ	\$3,649,805.00	Rehabilitate Apron
City of Albuquerque	Albuquerque International Sunport	ABQ	\$1,279,576.00	VALE Infrastructure
City of Albuquerque	Double Eagle II	AEG	\$90,000.00	Wildlife Hazard Assessments
County of Colfax	Angel Fire	AXX	\$374,599.00	Rehabilitate Taxiway
City of Artesia	Artesia Municipal	ATS	\$2,068,470.00	Rehabilitate Runway - 12/30
City of Belen	Alexander Municipal	E80	\$600,000.00	Construct Fuel Farm
Pueblo of Zuni	New Airport	83	\$3,092,985.00	Construct New Airport - Phase VI Paving
City of Carlsbad	Cavern City Air Terminal	CNM	\$205,658.00	Acquire Aircraft Rescue & Fire Fighting Vehicle
City of Carlsbad	Cavern City Air Terminal	CNM	\$62,986.00	Install Perimeter Fencing
Town of Carrizozo	Carrizozo Municipal	F37	\$327,463.00	Rehabilitate Taxiway
City of Clovis	Clovis Municipal	CVN	\$172,800.00	Acquire Equipment - Sweeper
State of New Mexico	Conchas Lake	E89	\$853,975.00	Improve Runway Safety Area - 09/27
Ohkay Owingeh Pueblo	Ohkay Owingeh	E14	\$141,777.00	Conduct Airport Master Plan Study/Construct Snow Removal Equipment Building
City of Farmington	Four Corners Regional	FMN	\$170,149.00	Rehabilitate Taxiway
City of Farmington	Four Corners Regional	FMN	\$99,760.00	Acquire Land for Development
City of Gallup	Gallup Municipal	GUP	\$214,881.00	Rehabilitate Runway - 06/24 - Phase I Design
City of Grants	Grants-Milan Municipal	GNT	\$62,595.00	Rehabilitate Runway - 13/31 - Phase 1 PER
Village of Hatch	Hatch Municipal	E05	\$95,622.00	Update Airport Master Plan Study
County of Lea	Lea County Regional	HOB	\$269,209.00	Rehabilitate Runway - 03/21

New Mexico FY 2015 Federal Grants (continued)				
Sponsor	Airport	LocID	Amount	Project Description
City of Las Cruces	Las Cruces International	LRU	\$239,221.00	Install Runway Vertical/Visual Guidance System - 08/26
City of Lordsburg	Lordsburg Municipal	LSB	\$223,573.00	Rehabilitate Runway
County of Lea	Lea County-Zip Franklin Memorial	E06	\$562,333.00	Rehabilitate Apron
City of Moriarty	Moriarty	0E0	\$360,000.00	Rehabilitate Runway Lighting - 08/26
City of Questa	Questa Municipal Nr 2	N24	\$299,581.00	Remove Obstructions - 17/35
City of Roswell	Roswell International Air Center	ROW	\$9,000,000.00	Rehabilitate Runway - 03/21 - Phase iiiia Construction
The Village of Ruidoso	Sierra Blanca Regional	SRR	\$183,510.00	Acquire Equipment - Sweeper
City of Santa Rosa	Santa Rosa Route 66	SXU	\$242,669.00	Conduct Miscellaneous Study - NPI Aproach Survey/Install Airport Beacons/ Rehabilitate Apron
County of Grant	Grant County	SVC	\$140,156.00	Rehabilitate Runway - 08/26 Phase 1 Design
City of Springer	Springer Municipal	S42	\$102,816.00	Acquire Land for Development, Install Perimeter Fencing
City of Taos	Taos Regional	SKX	\$16,162,353.00	Construct Crosswind Runway 12-30 - Phase IV Construction
City of Truth or Consequences	Truth Or Consequences Municipal	TCS	\$392,369.00	Rehabilitate Apron, Rehabilitate Runway - 13/31, Rehabilitate Taxiway
Town of Vaughn	Vaughn Municipal	N17	\$97,324.00	Rehabilitate Apron, Rehabilitate Taxiway
			\$45,321,516.00	

As you can see, airports in New Mexico received over \$45 million dollars in FAA funding! This is \$13 million more AIP dollars to New Mexico than in FY 2014! The FAA and State are beginning to plan the FY 2016 program and are looking forward to continually improving our airports.

In addition to all the FAA FY 2015 funds let to airports, the Division funded more than 30 State Only projects at our airports. Included in the FY 2015 State Only projects was the long awaited Belen Crosswind Runway 13-31. This project broke ground on July 27, 2015 and the runway was opened on November 20th. We also funded a heliport at the Mountain-air airport, as well as several fuel farms and pavement maintenance projects at airports all across the State.

We once again completed pavement inspections at 1/3 of our airports this past year. This has all been updated in our Pavement Management System web-based interface. This system allows the FAA and airport users to reference

current pavement information. Check it out: <http://www.appliedpavement.com/hosting/newmexico/index.html>

Last fall, the Division kicked off an update of the State-wide System Plan. The New Mexico Airport System Plan (NMAASPU) is being updated by Coffman Associates and will focus on public use, public owned airports that are within the New Mexico Aviation System. This currently includes a total of 61 aviation facilities (55 airports, four heliports, one seaplane base, and one proposed airport). This plan will include an updated economic impact study for the Statewide System as well as each of the airports included in the study. We are over half way done with the study. We have hosted two public meetings so far (one in Albuquerque and one in Santa Fe). Our third and final meeting is planned for early in 2016 down in the Southern portion of the state. You can also track study progress, download the documents and submit comments at: <http://nmasp.airportstudy.com/>

Continued on page 6

Airport Safety and Operations

By Dan Moran,
Grants and Financial Administrator

New Mexico Aeronautical Charts

We have a couple of new options for our Aviation enthusiasts!

Today we received our brand new edition of the New Mexico Aeronautical Chart (2016). If you are interested in getting your hands on a copy, email us at:

aviation.division@state.nm.us with your name and address and we will mail it out.

We also have an electronic version at: <http://nmdot.maps.arcgis.com/apps/OnePane/basicviewer/index.html?appid=d49c907cc8004e63bc2e0db36763fb1c>

The map has some interactive features that allow you to pull up airport information, an airport diagram and other local information for each of the airports we work with in the State. This electronic version has an airplane icon that you can click on and it will pull up a box that allows you to look at the city's website or the local chamber of commerce website for places you may want to visit.

For instance, if you are thinking about a trip but are just not sure where to go, you can go to our online map, click on the airport you would like to go to and follow the links to check out the local happenings.

We hope you get a chance to take a look at both versions! Enjoy!

News from the Planner's Bunker Continued from page 5

This past fall, the Division hosted two trainings. The first was a wildlife training that is required for all Part 139 airports. The second was an Airport Safety and Operations Specialist school. This training was attended by more than 50 aviation enthusiasts and we even had registrants from California, Texas and Arizona. The instruction took place over two days and was sponsored by the American Association of Airport Executives. We had such a great turnout that we are looking at hosting the advance course this upcoming year. The Division also partnered with the FAA FADO in both Albuquerque and Lubbock and hosted WINGS seminars at different locations around the State. If you are interested in hosting a WINGS seminar at your airport, please contact me.

The New Mexico Airport Managers Association will once again host the 2016 New Mexico Aviation Day at the NM State Capitol from 8AM till 12PM on Friday, January 22, 2016. We plan on having several table top displays showing how aviation impacts New Mexicans. We hope to have many members of New Mexico's Aviation Community on hand to discuss the impact and importance of aviation in our State. If you are interested in attending the 2016 Aviation Day, please contact Colette Schobbens with the New Mexico Airport Mangers Association at 1-800-432-2036. Space is limited and will be assigned on a first come, first served basis. Please keep in mind that tables will need to be shared.

I hope you all have a safe winter and until next time...
Happy Planning!!!



2015 Aircraft Registration

By Mark Harris, Aircraft Registrar

As 11/12/15, we have registered 1345 aircraft in New Mexico. Since this time last year, we are down 8% and down 13% since 2012 in active registrations. This year online registration payments are at 67% which is up from 19% in 2014.



We are modifying our invoice processing. Those that are on the e-mail distribution list will be receiving an email reminder when it is time to renew their annual registration. Additionally, everyone, including those that received an email notification, will receive an invoice from the DOT General Office Accounting. The accounting department will still process checks that are mailed in, but owners are still encouraged to submit payments online. Accounting will process all subsequent billings to include invoices for the monthly 10% late fee. The late fee will be assessed on any unpaid fees on March 1st and every month thereafter, if after an account goes unpaid for 6 months; the account will be referred to a collection agency. Owners are encouraged to submit payments online as it is the most efficient way to pay the aircraft registration fee.

If anybody would like some assistance with processing payments online, please feel free to contact me at 505-244-1788 Ext 9110.

We are currently working to develop recommendations for the state policy on UAV/UAS aircraft in New Mexico. This is developing daily as the State continues to work out its strategy with regards to what to register, how to register, and the cost of registering. As the information

becomes available, at least for now, we will inform you via this newsletter.

FYI - Please remember, our registration system is a self-reporting one. Late fees will be assessed starting on March 1st 2016 and every month after. If a transfer of ownership does occur, it is the responsibility of the owner to send in the last state registration, filled out on the backside, signed and notarized. If the registration is not available, please send in a copy of the bill of sale. If this does not occur, the owner will continue to be billed since we do not know the transfer has occurred. The buyer is subject to the same requirements as the owner of a new aircraft brought into the state. The buyer must fill out the new aircraft application form and send it in to the address or fax listed at the top of the page. The requirement is that an aircraft must be registered within 15 days.

Please contact me at 505-244-1788 Ext 9110 or email me at mark.harris@state.nm.us for more information.

▼ The view from above Moriarty. Moriarty Elementary School is in the foreground; the Sandia Mountains and the Ortiz Mountains can be seen in the distance.



◀◀ The glider and tow plane taking off.

◀ The glider finishing its roll-out after landing. It always finishes a landing roll coming to stop on the single main wheel and one of the wing-tip wheels.

Winter

Fly New Mexico!

2016

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2016 Aviation Events Calendar

Date	Event	Location	Contact Information
May 11-13	2016 NM Aviation Conference	Ruidoso, NM	Colette Schobbens 505-992-5573 or Jane Lucero at 505-244-1788 ext. 9111

If you have any events you would like to add, please email the information to: jane.lucero@state.nm.us.

Find the Fly New Mexico! newsletter
on the web at:
<http://dot.state.nm.us/en/Aviation.html>.

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