

MINNESOTA AIR NATIONAL GUARD HISTORICAL FOUNDATION
MINNESOTA ANG MUSEUM NEWS
Minnesota Aviation History - Learn of the Past
Fall 2016



Busy summer for the Photo Phantom!

by Ray Pittman



At Minnesota Air National Guard Museum events this year, over 1000 people enjoyed the experience of sitting in the pilot's seat of the F-4 Photo Phantom, like five-year-old Tyler from Braham, Minn. with museum board member Anja Drescher at the 2016 Duluth Air Show. Volunteers who go with the Photo Phantom to events all over the region report great satisfaction working with the public, sharing the rich heritage of Minnesota aviation with young and old alike.

photo by Andy Berry

It was a busy year for the Photo Phantom. During the winter months, several museum volunteers stripped the F-4 of its old paint and did cosmetic repairs and touch-ups. The radome (nose cone) was removed and the old coating was peeled off. The fuselage and the radome were then prepped for the paint shop. In the spring, both components were taken to Maaco in Burnsville, Minn. and given a fresh coat of paint. Stencils and all appropriate markings were then reapplied and the Photo Phantom was reborn. It had been transferred to a different trailer that the museum had purchased and refurbished in 2015.

The events we participated in this summer included:
Rush City Pancake Breakfast and Fly-In, Rush City, Minn., June 12
Vet Fest, Oakdale, Minn., July 2
Duluth Air Show, Duluth, Minn., July 9-10
Air Expo, Flying Cloud Airport, Eden Prairie, Minn., July 16-17
Candy Dancer Air Show, Siren, Wisc., July 23
Minnesota Air National Guard Family Day, MSP Airport, Aug. 20
Stem Day, Minnesota State Fair, St. Paul, Minn., Aug. 25
Wings and Wheels Auto and Air Show, Osceola, Wisc., Sept. 10

Whenever the Photo Phantom appears at an event, it draws a good crowd. We are limited to the amount of activities we can have at the museum right now due to the level of security, so being able to go off base to different events is an excellent way to promote the museum.

Taking the Photo Phantom to an off-base event involves a lot of pre-planning. Event sites have to be

Photo Phantom story continues on page 6

Also inside:

- *Archiving going smoothly*
- *Thank you to volunteers this summer*
- *F-102 Delta 'Duece'*



Our volunteers: Gregory Bastyr

story and photo by Jim Atwell



Greg Bastyr has been a volunteer with the museum since August 1992. Greg learned about the museum while reading a local newspaper and seeing reports on television about the A-12 Blackbird being assembled for display at our airpark. Upon contacting the museum and meeting with Ron Hokenson, Greg decided to become a volunteer.

Prior to becoming a volunteer, Greg completed twenty-plus years of active duty with the USAF. He started out as a crew chief on the C-130E. Throughout his career Greg held a variety of positions including assistant NCOIC of Phase Docks on F-15 series aircraft. He also completed duties being assigned to aircraft transient alert facilities and aero repair shops at various bases, conducting in-depth maintenance and repairs on a variety of aircraft.

Additionally, while on active duty Greg completed technical courses through Central Texas College and Alabama Aviation and Technical College and became a licensed Airframe and Powerplant mechanic. He has maintenance experience on ten different types of aircraft.

After retiring from the Air Force, Greg began working at a manufacturing facility in his hometown of Montgomery, Minn. He is a production supervisor overseeing the performance and accomplishments of his workforce.

During Greg's volunteer time at the museum, he assisted with many projects such as restoration of the F-102 aircraft and the C-131 cockpit. He also helped with assembly of the C-130 cockpit simulator. Post 9/11, Greg worked with other volunteers to reopen the museum after a lengthy shutdown.

Greg's favorite aircraft at our museum is the C-130. This was the aircraft he went to technical school for and he ultimately became a crew chief affording him the opportunity to travel the world. Another one of Greg's favorite aircraft is the F-4.

Greg is an aviation enthusiast. What he loves most about being a volunteer at our museum is the camaraderie with other volunteers and the talks they have about aircraft. Greg also enjoys the opportunity to meet other people and listen to their stories.

YOU ARE INVITED

As a recipient of our Minnesota ANG Museum Newsletter, you are invited to attend any of the Minnesota Air National Guard Historical Foundation Board of Directors Meetings. Areas such as foundation finances, operations, archive/grant activity, and many more issues that the foundation believes are important in preserving the heritage and traditions of the Minnesota Air National Guard are on the agenda.

The board currently meets on the second Wednesday of every other month at 5:30 PM in the conference room of the 133rd Airlift Wing. Our next regularly scheduled meetings are:

November 9th
January 11th, 2017
March 8th, 2017
May 10th, 2017

We are exploring opportunities to conduct these meetings off installation in order to more easily accommodate attendees.

If you are interested in attending one of our meetings, please visit our website: <http://mnangmuseum.org> for information on how to comply with the enhanced security identification requirements or call the museum at (612)713-2523.

We hope to see you at one or more of our meetings.

Mission Statement:

The mission of the Minnesota Air National Guard Historical Foundation is to preserve the heritage and traditions of the Minnesota Air National Guard.

Board Members:

Chairman: Brian Wyneken
Vice Chairman: Karen Wolf
Secretary: Terry Morris
Executive Dir./Dir. of Operations: Mike Drews
Treasurer: Tom Simonet
Members: Ray Pittman, Rick Heinecke, Jerry Schultz, Brig. Gen. Greg Haase, Anja Drescher, Jim Atwell, Rick Dow and Herb Ketcham
Wing Advisor: Lt. Col. Barb Pazdernik
Legal Counsel: Kelly & Lemmons, P.A., Joe Kelly and Kevin Beck

Newsletter editor: Jim Atwell

Assistant editors: Sharon Drews and Mark Moss

Museum hours and access:

Tours can be arranged through Stan Christianson (stanangmuseum@gmail.com) or call him at (612)713-2523. Special events such as birthday parties can be arranged through Nancy Wilson (nancyspecialeventsmnangmuseum@gmail.com) or call (612)210-9839.

Address all correspondence to:
Minnesota Air Guard Museum
P.O. Box 11598
St. Paul, MN 55111-0598

<http://mnangmuseum.org>

(The Minnesota Air National Guard Historical Foundation is a non-profit organization and not affiliated with the Department of Defense, Minnesota National Guard or the 133rd Airlift Wing.)

Our New Volunteers

The museum would like to welcome our new volunteers to the Air Guard Museum. Their skills will help the museum greatly.

- 1) Taylor Juvland, active military guard historian
- 2) Dave McCarthy, retired aircraft mechanic
- 3) Lynn Wolf, retired businesswoman
- 4) Ruth Welsh, retired school teacher

Chairman's comments

In January we will again hold board elections for board members and for officer positions (Chair, Vice Chair, Treasurer, Secretary, Museum Executive Director). We are looking for board members to seek election for some of these officer positions as we anticipate upcoming changes in some of our board members' availability to fill these roles. I am coming near to the end of the two-year period that I had intended to serve as the board chair (although whether and if I continue in that or some other role is subject to board decision), so I thought some comments on this might be timely.

First I would like to thank the board and its officers for making this role easy. We deliberately prioritized focusing on our governance and museum business practices, and we seem to have been generally in agreement on this course for our organization. Others have taken the lead in this: guiding the efforts of our volunteers, securing funding through grants, managing the execution of plans, coordinating with affiliated organizations, and in promoting our mission and proud history of our foundation. For my part, I have done very (very) little of the "roll-up-the-sleeves" type tasks that really keep this organization going, but I have learned a lot about the MNANGHF and look forward to continuing my volunteerism in whatever way I can be helpful.

Second, I want to acknowledge the hard work and dedication of our past leadership and volunteers. For some of them, this was not as easy as it has been for me. As with so many volunteer organizations, there can be struggles maintaining airspeed, altitude, and heading. In no small measure whatsoever, our present condition is owed to their efforts to work through some tough times. Growing pains are part of growing, and as we move towards planning the 100th anniversary of the Minnesota Air National Guard, we should be mindful of their work and their stories as we determine how to tell our story to new generations.

Speaking of new generations, our rapidly approaching engagements in planning for the 100th anniversary present an opportunity to grow with what should be a natural constituency of Minnesota ANG Airmen. I am seeing positive indications of growing interest in the history of their organization, and we would do well to encourage and provide opportunities to foster that interest.

Finally, while I still get a chance to comment in these newsletters I'd be remiss if I did not take this opportunity to again express my sincere appreciation and thanks to our volunteers and generous donors.

Your Foundation Board Chair,
Brian Wyneken

From the Archive Corner

story and photos by Kirk Ransom

Our two collection projects continue with a lot of work having been accomplished. One project is inventorying the two dimensional items (2D) – books, papers, photographs and much more. This project is funded with a grant from the Minnesota National Guard Support Our Troops Program. We are on the second grant of this project. To date about 9,400 items have been inventoried, and we have at least 5,000 more to go. When the inventory phase is done, we will start on the cataloging phase where every item is photographed or scanned and more details about each item are collected. This project started in January 2016 and will continue until September 2017. Mariah Kenney is the archivist working on this project full time.

The second project deals with three dimensional items (3D) - aircraft, flying gear, uniforms, battle dress, aircraft components and even bowling trophies. This project is funded by a grant from the Minnesota Historical Society Cultural Heritage Grant program. Over 4,000 items have been inventoried and more are being discovered all the time. This project will continue until the end of April 2017. Lindsay Marshall is the collection technician working full time on this project.



Mariah Kenney manages 2D items.

With the 2D objects a lot of inventory forms are created. The data on each form must be entered into a computer database. We need volunteers to do the data entry one day a week or more.

Another major project that needs volunteers begins this winter in hanger bay 4. It involves building two large structures for housing the collection in a controlled environment. This project will involve painting about 28 4x8 sheets of Masonite, and then securing them to a metal frame structure that is about 24' long, 44" deep and 12' feet high. Three sides and the top and bottom will be enclosed. Doors that allow access to the shelves along one side of each cage will need to be constructed. Air-conditioners will be installed to control the environment. We would like to have at least two volunteers involved at the same time for safety purposes and this work can be done any day of the week except Sunday. This project will be a challenge, but it will also be interesting and satisfying as it comes together.

To volunteer for any of these projects, call Stan Christianson at 612-713-2523 to arrange initial access to the base. Point of contact for this project is either Herb Ketcham, Mike Drews or Kirk Ransom.



Lindsay Marshall manages 3D items.

MUSEUM WISH LIST

Over the summer months the museum hosted several events where the number of attendees was quite large. In order to accommodate these large numbers, it was necessary to rent folding chairs.

As the popularity for holding birthday parties, weddings, etc., grows, having our own folding chairs would be both logistically and monetarily beneficial.

We are also in need of a fourteen-inch friction chop saw for metal work in restoration projects.

If you are interested in making a monetary donation to the museum to assist in the purchase of these we would be extremely grateful.

Donations can be made by check written to the Minnesota Air Guard Museum and mailed to:

Minnesota Air National Guard Museum News

P.O. Box 11598, St. Paul, MN 55111. Pay Pal can also be used to make a donation. Please visit our website <http://mnangmuseum.org> for details. As always we appreciate everyone's continued support.

The museum would like to recognize Life Member retired Lt. Col. Lowell Ueland. Lowell read in the museum's spring newsletter that there was a need for funds to purchase items for the museum's archiving project and gave a generous donation toward the purchase of acid-free archiving boxes that will protect museum artifacts while in storage.

Lowell was a Guardsman from 1953 to 1987 when he retired as a Lieutenant Colonel. He also held many positions at the museum including: first curator, interim director, and for four years he published the newsletter. Lowell believes it is important to sustain and promote the historical information and memories of the Minnesota Air National Guard.

The Minnesota Air National Guard Museum is looking for great people to join our volunteer team.

Coordinating and executing museum activities as described on page one requires a lot of preparation and effort. We are planning to expand our museum road show in 2017 to even more shows and fairs and we need YOUR help!

No aviation knowledge required. If you like to engage with people and enjoy being outside, the following volunteer positions will support off-site events for the 2017 season.

2017 Museum OFF-SITE volunteer positions:

Pre/Post off-site events	During off-site events
Off-site event logistics & coordination	Admission & tickets manager
Pre/post show set up & break down	F4 Photo Phantom cockpit security & support
F4 Photo Phantom / large exhibit truck & trailer driver	Gift shop sales, coordination & support
Road security shadow driver	

Ongoing Museum ON-SITE volunteer positions

Visitor Engagement	Museum Operations	Museum Displays & Artifacts
Docent (Tour Guide)	Administrative assistant	Museum maintenance
Gift shop coordination & sales	Volunteer coordination support	Artifact restoration & preservation
On-site special event planning	Membership coordination support	Exhibit development & construction
On-site event executions	Data entry	
	Marketing & Communications	
	Research & Archiving	
	Collections archivist support	
	Librarian	

Are you interested in an on-site volunteer position or both?

Our volunteers at the museum engage in a variety of opportunities to apply diverse skills, learn new skills and meet great people in the process.

Volunteer positions are open to all individuals with an interest and commitment of service to the museum who are at least 18 years of age, is a U.S. citizen, has a valid enhanced driver's license, or a regular driver's license and a current (not expired) U.S. passport, or military identification and is able to perform defined duties. Volunteers work independently with other volunteers and with the permanent museum staff.

If you have skills or just a passion that could help bring the Minnesota Air National Guard's rich history to others, please consider contacting us at 612-713-2523, or fill out the volunteer form at <http://www.mnangmuseum.org/about/volunteer/> and email it to mnangmuseum1@gmail.com or mail it to Minnesota Air National

Air Guard Museum and ANG Base Access

by Pete Backlund

As many of you may have discovered by now, the Minnesota Air National Guard base is operating under increased security restrictions. We love having our museum members and friends come out to visit, and we can still schedule tours and events for you, but it now takes extra preparation to gain entrance to the base.

All adults must have proper identification to get clearance. It can take up to two weeks for the background checks to be completed. A person under the age of 18 who wishes to drive onto the base must meet the same requirements as an adult.

All persons who drive onto the base must have a valid driver's license

If you have an active duty military or retired military ID card no additional clearance is required.

To get clearance you must have one of the following:

An Enhanced Minnesota drivers license or state ID card.

A drivers license from other states, except Missouri and Washington, are also accepted.

A Veterans Administration issued ID card.

A current U.S. passport.

A Global Entry card. This card allows expedited clearance for pre-approved, low-risk travelers upon arrival in the United States.

Minnesota residents who don't have the ID items listed above must have a new Minnesota Enhanced Driver's license or state ID card.

Groups must provide all names and other identity information for individuals seeking entry two weeks prior to the planned event so an Entry Authorization List (EAL) can be created and sent to the security staff at the entrance to the base.

We regret the inconvenience, but as we are located on an active Air National Guard base these precautions are necessary. These rules are subject to change. For the latest information please call (612) 713-2523 or visit our website at mnangmuseum.org.

Photo Phantom story from page 1

visited and museum personnel have to be scheduled to assist in the handling of the Phantom display and gift shop. Proper papers have to be filled out, credentials to be acquired to enter the event area, and in some cases, security badges have to be obtained. The Photo Phantom itself has to be 'pre-flighted' along with the truck and trailer that are used to transport it, and when an event is out of town and we will be at a location for more than a day, arrangements have to be made for food and lodging. All of this takes people and time and we are always looking for help in this area. The museum had to turn down several events this past summer as we did not have enough volunteers to cover all the needed job positions. I encourage any museum members to take part in the summer activities. It is a great time, you get free admittance to air shows, you have great experiences, and you meet many wonderful people along the way.

The Photo Phantom will be going to an off-site location this winter to have further restoration done such as touch-up painting, new entrance ladder, seat reconditioning, cleaning where needed, gauges installed, and more.

By spring she will be looking even better than she does now. If this sounds like something you would like to get involved with, please contact us at the museum so we can get the proper credentials in order for you to participate. An official volunteer pass is mandatory in order for you to get on base on a regular basis and it generally takes about a week for the approval. If you just want to visit us and see the museum, you have to call at least a week ahead of time so the arrangements can be made for you to enter the base. We hope you can visit us soon!



The Photo Phantom at the 2016 Minnesota State Fair.
photo by Ray Pittman

Celebrations Abound

by Karen Wolf

It has been a busy party season since our last newsletter. We have had numerous birthday parties, ranging in celebrations for a three-year-old all the way up to a wonderful gathering for 80-year-old retired military member, Lt. Col. Ross Brouse. Brouse was a navigator in the Air Force, transferred to the 133rd, then state staff. He retired in 1980, after which he spent 30 additional years as an Air Force Liaison Officer for the Air Force Academy. Friends and family helped him enjoy his milestone day.

Earlier this Spring, Lt. Col. Andy Burda used the museum venue to provide an interesting space for a 'Top Gun' hangar dance for his church. They all seemed to have a wonderful time.

So far this year, the Museum has hosted 15 parties for a total of approximately 290 people. Whatever the reason for a celebration, the museum can accommodate from a small family group up to 250 people. The venue is available for birthdays, corporate gatherings, dances, retirements and wedding receptions. Many positive comments have come our way including a mother who recently saw on a blog "this is one of the top ten places to have a birthday party in the Twin Cities."

We have developed a more formal agreement that lists expectations of the museum, base and the event host. We are available to answer questions throughout the planning period including the impact of the newly enhanced security program. Please go to our website, mnangmuseum.org and look under the Schedule Tours and Events tab. Specifics about planning your special occasion can be found there.



Parties at the Minnesota Air National Guard museum this past summer were a great success.
submitted photos

CONVAIR F-102 DELTA DAGGER 'DUECE' USAF SERIAL NUMBER 56-1215

by Gregory Bastyr



On the cover: The F-102 Delta Dagger in its original paint. *file photo*

Above: The museum's F-102 getting restored in the hangar in 2011. *photo by Tech. Sgt. Erik Gudmundson*

The F-102, nicknamed 'Deuce' was flown on air defense missions by the Minnesota Air National Guard, 179th FIS, Duluth, Minn. from 1967 to 1972. This unit earned the nickname 'The Aces of Deuces' winning the William Tell Weaponry competition against all other Deuces in the USAF. The F-102, one of the USAF's Century Series aircraft was a US interceptor aircraft built as part of the backbone of the USAF's air defenses in the late 1950s.

Entering service in 1956, its main purpose was to invade Soviet bomber fleets. The F-102 was the first operational supersonic interceptor and delta wing fighter of the USAF. The F-102 also saw limited service in the Vietnam War in bomber escort and ground attack roles. The F-102 was retired from operational service in 1976. The follow on replacement was the Mach-2 Convair F-106 Delta Dart which was an extensive redesign of the F-102. There were 1,000 F-102s built.

Cost: \$1,200,000

Crew: 1

Length: 68 Feet, 4 Inches

Wingspan: 38 Feet, 1 Inch

Height: 21 Feet, 2 Inches

Engine: 1 Pratt and Whitney J57-P-25 Afterburning Turbojet, Dry Thrust 11,700 Pounds, Thrust With Afterburner 17,200 Pounds

Maximum Speed: Mach 1.25 (825 MPH) at 40,000 Feet

Range: 1,350 Miles

Service Ceiling: 53,400 Feet

Armament: 6 AIM-4 Falcon Air To Air Missiles or 3 Aim-4 Falcon Missiles and 1 AIM-26 Falcon with Conventional or Nuclear Warhead

Rockets 24 X 2.75 Inch unguided rockets in the missile bay doors

Interesting facts: The prototype F-102 made its first flight Oct. 24, 1953. When first built it was only able to achieve Mach 0.98 due to transonic drag. To solve the problem and save the F-102, Convair embarked on a major redesign, incorporating the recently discovered 'Area Rule'. The redesign entailed lengthening the fuselage 11 feet and pinched the fuselage at mid section (dubbed the Coke Bottle Configuration). The 'Area Rule' concept is still used on many aircraft to this day, to reduce drag. The redesigned F-102 first flew on Dec. 20, 1954 and exceeded Mach 1 the following day.

The museum F-102, when retired, was a display aircraft mounted on a pole at Hancock Field, Syracuse, New York. Extensive restoration took place when it arrived here. To make the aircraft light enough to sit on a pole in New York, the landing gear were removed by torch. To reinstall the landing gear, parts of the wing structure had to be replaced, the wing components, landing gear, cockpit items, etc. were recovered from several F-102s located in New Mexico. Most F-102s, after retirement, were converted to drones and used for aerial target practice by the USAF.

The Museum's hangar doors were power washed and painted in October. Over the last few years, the doors have taken a beating from the weather and the new paint job has greatly improved the image of the museum and the Guard.

Many thanks and appreciation goes to the 133rd Civil Engineers and the painters who worked on this project.

**Minnesota Air National
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Bruce Graham recognized for many years of museum service



The museum would like to recognize retired Command Chief Master Sgt. Bruce Graham for over 40 years of military service in the Guard. Since 1984 Bruce has in some way been affiliated with the museum. He began as the 133rd Airlift Wing liaison to the museum and later as the museum's chairman of the board.

When Bruce heard that the museum was planning to remodel the lobby displays, he stepped forward and volunteered to help. The self-taught woodworker designed and built a matching display case similar to the Miller display in the lobby. Bruce spent over 100 hours designing, building, painting and electrifying the display case. It was made to take apart easily so it could be moved if necessary. The display will feature some of the military aviation products Honeywell built. The display will also include a touch screen TV that will show a short video of how these products work. Bruce has also generously donated all labor and materials for the display case.
photos by Mike Drews