



Soaring 220 feet above the intersection of I-70 & I-75 and seen by thousands of vehicles daily, this 120 foot wingspan monument to the Wright Flyer will symbolize Dayton, Ohio throughout the world.

# The Wright Icon News

Bringing an Icon to Dayton - The Birthplace of Aviation

Today's Modern Aerospace Hub - Tomorrow's Aviation Leader

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Issue 1

## WIG ❤️ "Early Beginnings" ...!

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When Jackie Shock, owner of five *Early Beginnings* schools in the Dayton area, walked into Jon Kurtz' shop, Creative Banners, Flags and Poles, last spring, she had no idea where it would lead. In addition to finding what she came for, she was captivated by the Wright Brothers monument model that Jon displays in the shop. The more she thought about it, the more she wanted to do something to help. Her connection to *Early Beginnings* led to the idea that getting the kids involved might be a great experience for all. So she did.

At the beginning of last summer she challenged all the kids in each of the schools to gather up whatever small change they could find every day and bring it to a central collection jar in each



Jon and Jackie with students holding presentation check

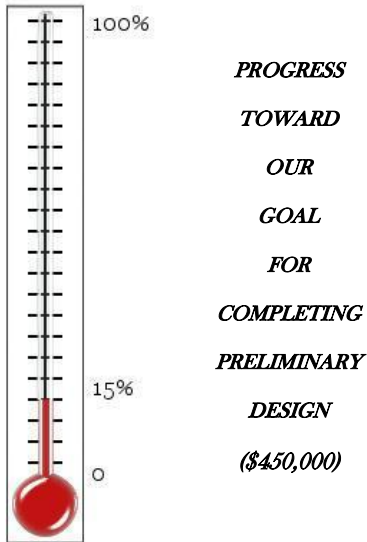


Walt, Jackie with desktop model, and Jon (L to R)

school. The goal was a penny each day from each child, and the school with the most money at the end of the summer would be the winner. The kids were excited by it and worked all summer collecting their contributions. At the end of the summer, Jackie and her staff were amazed at how much they had collected – just under \$200! And the Centerville school was the winner. The staff kicked in enough extra to bring the total to \$500, and Jackie contacted Jon to set up a time and place when she and the kids could present a check to the WIG.

The 1905 Wright Flyer replica at Carillon Park was agreed on as an ideal location and it all came together on December 22<sup>nd</sup>. Jackie, two of her staff members, and sixteen of the kids, all between kindergarten and fifth grade, met with Jon Kurtz, Walt Hoy, and Curt Nelson in front of the Wright Brothers' Flyer to make the presentation. They had prepared a huge "presentation" check for the photo op, and Jon brought one of our new desktop models to present them in return. The kids had the satisfaction of seeing a big project through to completion, and we have the pleasure of welcoming *Early Beginnings* into the WIG family, "...the beginning of a beautiful friendship!"

## Wind Tunnel Impacts Fund-Raising Goal



The Wright Image Group’s project architect, Steve Brown of Brown & Bills, received its first formal proposal for wind tunnel analysis of the monument, surprising most board members at its cost. The proposal, coming from DAR Corp, seems to have included much work that may not be necessary for the project, but until Steve can get all that sorted out, the Executive Committee felt the conservative approach should be to raise the fund-raising goal from \$200,000 to \$450,000. Our fund-raising consultant concurred.

This higher goal has an immediate impact on our fund-raising “thermometer” (opposite), but probably will not have much impact on the time it takes to reach the goal. That optimism comes from newly emerging potential funding sources that we are working hard to develop.

## A Welcome Surprise From UD!

Steve Brown has been meeting with his Engineering and Design committee to map out the next steps in design development. The newest addition to his committee is Dr. Markus Rumpfkeil, Assistant Professor, Mechanical and Aerospace Engineering, at the University of Dayton, who opened the door to getting some of this wind tunnel work done by engineering students at UD. The work will be done as an “Innovation Project” by three to five students under faculty supervision. Steve and Richard Meyer of Shell & Meyer Structural Engineers will serve as requirements reviewers for the students. This will all be without cost to the WIG! However, Steve will have to provide a three dimensional digital drawing of the 1905 Flyer to the students so they can construct a “rapid prototype” model for use in the tunnel.

The objective of this wind tunnel work is to determine what kind of forces must be withstood by the monument’s most critical part, the connection between the airplane and the pedestal. High and/or turbulent winds from all directions, both horizontally & vertically, are expected to create a wide range of torsion and bending moments on that connection which must be designed to withstand them all.

The throat of UD’s tunnel is 30 inches square, and can test to a wind velocity of approximately 110 mph. A Flyer model, no more than about 18 inches in wingspan, can be mounted in the tunnel at every possible aspect angle up to

360 degrees, allowing the students to collect data on forces working on the connection throughout that entire range. At any given aspect angle, the model can also be angled up or down approximately 30 degrees with respect to the airflow, allowing the students to evaluate winds with a vertical component. This academic project will be of relatively short duration – results should be available before June ’12.

While the UD project is ongoing, Shell & Meyer will proceed with an initial design of the airplane/pedestal connection based on standard engineering criteria, bolstered by engineering judgment on the unique factors embodied in this monument. Richard and Steve will compare these initial design criteria with the UD wind tunnel results and make changes where advisable. That way, we can continue preliminary design documentation with higher confidence. Ultimately, we will probably do more formal (and expensive) wind tunnel testing with more detailed models that reflect design decisions still to be made, but this UD project will undoubtedly reduce the risk of significant design changes being necessitated by those future tests.

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***...most critical part, the connection between the airplane and the pedestal.***

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## 2011 General Membership Meeting



On December 19<sup>th</sup>, the Wright Image Group held its 2011 General Membership Meeting at Moraine Farm, the former home of Col Edward A. Deeds, friend of the Wright Brothers and famous Dayton inventor and entrepreneur. All WIG members were invited to attend, vote for new director terms, enjoy complimentary hors d'oeuvres and drinks, and take a guided tour of the mansion. Ralph Link was elected as a new director, and Steve Brown, Walt Hoy, Shayna Kolodesh, Ellie Lewis, Jacqie Nawroth, and Walter Ohlmann were re-elected. All will serve three year terms. The agenda included a project update by Steve Brown for engineering and design, George Gianopoulos for fund-raising, and Curt Nelson for public information. The board intends to return to this venue for the 2012 General Membership Meeting, and urges all members to plan on attending.

## Distinguished Pro Fund-Raiser Comes on Board

In October, the Wright Image Group elected to bring in a professional fund-raising consultant, Mr. George Mongon, to assist in both fund-raising strategy and execution.

George began his career as a corporate consultant to Fortune 500 companies, helping to increase their profits through management development and employee motivation. Within a decade he shifted his consulting practice to helping non-profit corporations develop and achieve strategic plans, including the ever-important fund-raising component. Over time, he has built an international reputation, with clients ranging from the US Olympic Committee in Colorado Springs to the University of Natal in South Africa.

His most recent association has been with the Air Force Museum Foundation, Inc. where he helped them reach new records in their fund-raising program and achieve high levels of visibility for the National Museum of the United States Air Force. Prior to that, he assisted the Buffalo Bill Historical Center in Cody, WY raise \$50.5 million in venture capital for broad-reaching museum improvements.

Earlier in his career, Mongon served as both Lecturer in management at the University of Cincinnati and as Associate Professor in business administration at Thomas More College. He has been a frequent speaker in management and fund-raising issues for four decades.

George's philosophy is that ideal results come from a steadfast commitment to building an exciting, yet prudent business plan, developing and maintaining strong community and constituent relationships, and continually seeking quality-focused results.

The Wright Image Group is proud to have him on the team!

### Important Note to Members:

The WIG has made several changes to our membership and dues structure over the past year. Too much of this has led to confusion, so the Board has made one final change. To summarize: we will no longer differentiate between individuals, families and businesses for annual memberships – all will pay the same (see Dues, page 4); there will be no “lifetime memberships” – all donors and members who have cumulatively contributed at least \$150 in either dues and/or donations will receive a permanent membership and not be asked to either renew or pay further dues. This simplifies the ground rules and streamlines administration. The Board reserves the right to modify the current annual dues rates and the permanent membership threshold in the future as appropriate.



To join, make a donation, or get information explaining the different contribution and recognition levels, write to us at:

Monument  
1605 N. Main St  
Dayton, OH 45405

Annual Membership Dues\*

1 year - \$20  
2 years - \$35  
3 years - \$50

\*Applicable to Individuals, Families or Businesses

**Board Member Spotlight**



**Curt Nelson – 1st VP**

Curt graduated from the USAF Academy in 1965 with a Bachelor of Science degree, and earned his pilot wings the following year. He was a B-52D pilot and instructor pilot in Strategic Air Command with over 200 combat missions during Vietnam. In 1974 he graduated from the USAF Test Pilot School, and was a test pilot in the B-1A program at Edwards AFB. He has over 3900 flying hours in over 20 different aircraft, and has 18 years of experience in USAF systems requirements, acquisition processes, and test program management. His final assignment was as Deputy to the Director for Operations at HQ AFMC here at Wright-Patterson AFB. He retired as a full Colonel in 1995 with 30 years on active duty, and settled in the Dayton region.

Curt went to work in the quality management system field for Crysteco, Inc., a silicon crystal manufacturer in Wilmington OH, as an administrator, auditor, and later as Quality Manager at a subsidiary in Allen TX. He achieved ASQ Quality Manager Certification in 2000.

From 2001 to 2008 he was a defense contractor (test and evaluation) on the B-1B program at WPAFB. In 2007 he was selected as Contractor of the Year on that program.

Curt has been the Treasurer of Frank P. Lahm Flight 9 of the Order of Daedalians, a nation-wide fraternity of military pilots, for three years, and has been in the WIG for nearly three years as well.

Expected Donation Pledge  
Payment Schedule

\$ Up to \$1000 - 1 month  
1001 to \$2500 - 3 months  
\$2501 to \$5000 - 6 months  
\$5001 to \$10,000 - 12 months  
\$10,001 to \$50,000 - 18 months  
\$50,001 \$100,000 - 24 months  
Over \$100,000 - Negotiable

**Make checks payable to:**

**Aviation Heritage Foundation, Inc.**

With the following comment  
on the "For" line:

"Restricted for WIG"

WIG Board of Directors

- Walt Hoy – Chairman
- Walter Ohlmann – President
- Stephen Brown – 3<sup>rd</sup> VP (Design & Engineering)
- George Gianopulos – 2<sup>nd</sup> VP (Fund Raising)
- Curt Nelson – 1<sup>st</sup> VP (Public Information)
- Sally Ruh – Secretary
- Jacqueline Nawroth – Treasurer
- Shayna Kolodesh
- Jon Kurtz
- Amanda Wright Lane
- Judi Law
- Ellie Lewis
- Ralph Link
- Anthony Perfilio
- Walter Rice
- Marshall Ruchman\*
- Bob Ruh
- Toula Stamm\*

\*Directors Emeritus

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