



Soaring 250 feet above the intersection of I-70 & I-75 and seen by thousands of vehicles daily, this 144 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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## Technology Becomes Art

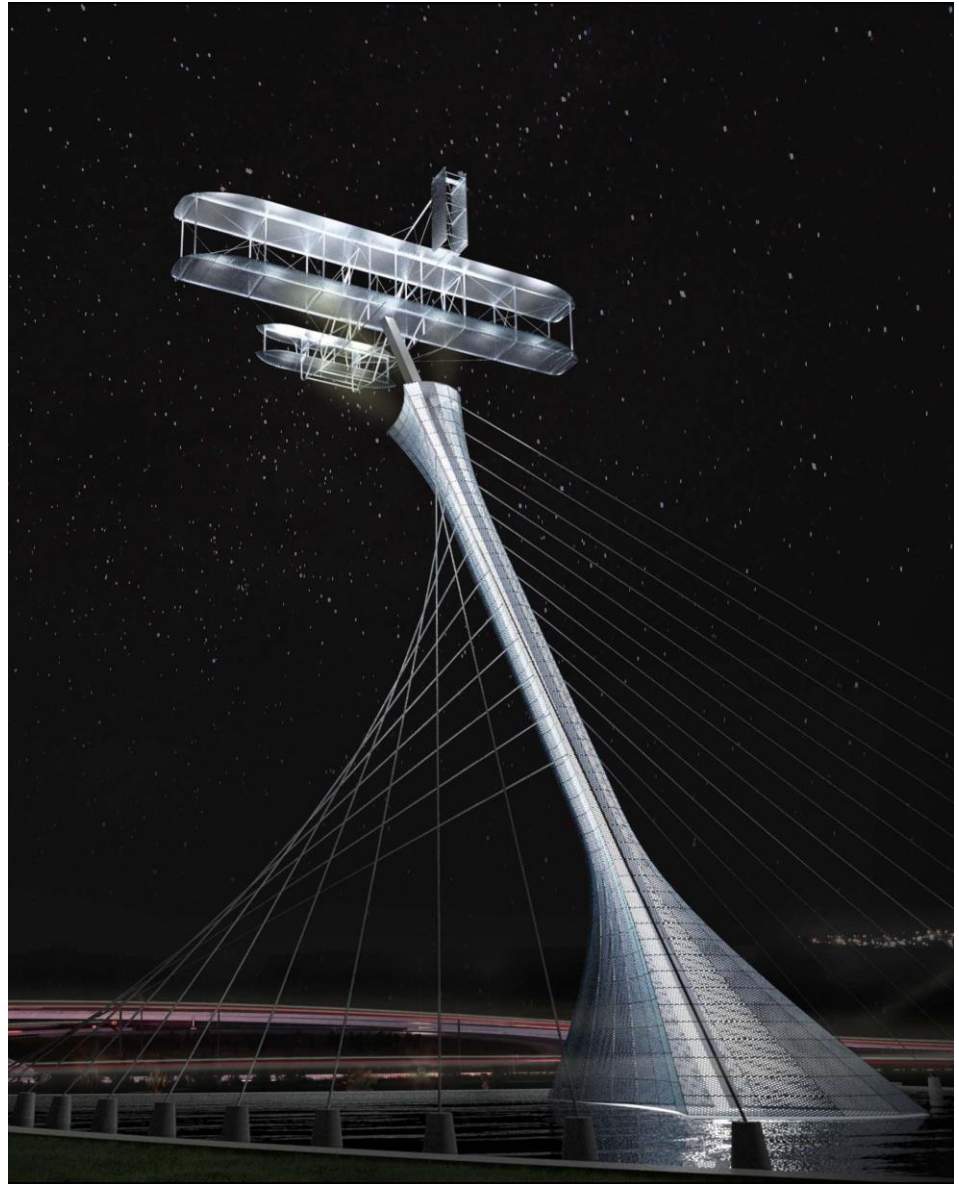
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The Wright Image Group has long been proud of project architect Steve Brown's artistic renderings of the monument. We have used them to great effect in introducing our project to people and groups for years.

Brown and Bills recently acquired a new and highly sophisticated software package that makes renderings not only artistic but technically accurate down to the "n<sup>th</sup>" degree. Plus, the software allows viewing the monument from any angle - all around, up and down.

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*Aero students Hendrickson and Crump measure load cell mounting arm to match wind tunnel specifications*

## OSU Completes Wind Tunnel Project

Students at The Ohio State University have completed their "capstone project" to analyze the aerodynamic forces that will be faced by our 27-story-tall Wright Flyer monument.

Aerospace engineering seniors Lindsey Crump, Chelsea Curtin, Tim Hendrickson, and Mitch Le completed the project with technical guidance by their faculty advisor, Professor Mike Benzakein, NASA Glenn Research Center engineer Tom Benson,

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One of this new software's earliest uses for the WIG was in the updated DVD we use for marketing. Mark Morgan of MainSail Productions is doing this update with a new voiceover and these new renderings superimposed on images of the I-70/75 intersection. The result is a dramatic improvement!

Steve admits to mixed feelings about using these renderings, though. As he puts it, "These new images look so real that it can create some false expectations. The old ones had just enough of a hand-drawn look that it reinforced the notion of a concept, not a reality." Nonetheless, these renderings will be a tremendous boost in our fund-raising efforts.



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and Chuck Stevens of Stevens Aircraft engineering. The project is included in their graduation credits.

"This project has been such a great learning opportunity for us," said Hendrickson. "We really hope our efforts will be of valuable use to the Wright Image Group for years to come."

The project started at the beginning of the 2012 autumn semester. It built on earlier work done by the University of Dayton, and used computer models and the OSU 3x5 foot wind tunnel to estimate the forces generated by wind velocities up to 220 mph.

The wind tunnel work was completed in February using a Flyer model provided by the Wright Image Group. The student team spent the remainder of the semester analyzing the volumes of data obtained and preparing a final report.

Our project architect, Steve Brown, our project structural engineer, Richard Meyer, and Chuck Stevens traveled to Columbus to receive the final report in an oral presentation and a hard copy for file. They also took away for further analysis all the data accumulated during the project. Without going into technical detail, the results were positive. This scale model testing supported Meyer's current design by indicating forces on the model are within his design limits. However, it is likely that there will need to be additional wind tunnel work with a larger scale model that includes the pedestal it rests on. We will continue to work towards a Space Act Agreement with NASA Glenn Research Center, and the continued technical assistance they can provide.

Meanwhile, with respect to the OSU report, "We're delighted to have this thoroughly professional analysis in hand, providing evidence that our design will stand up to the worst stresses it is likely to incur," said Steve Brown.

***"We're delighted to have this thoroughly professional analysis in hand, providing evidence that our design will stand up to the worst stresses it is likely to incur."***

**-Steve Brown**

## A Twinge of Nostalgia...

Every aviation enthusiast resonates to an old cartoon strip that stopped in 1988 when its author died. It was actually two cartoon strips, "Terry and the Pirates," and "Steve Canyon," drawn by one very famous American, Milton Caniff. In April this year, the anniversary of his death, Air Force Magazine honored Milton with an excellent article about him that included



some of his art work and panels – the kind that produce little nostalgia twinges. On October 17, 1943, his famous "Let's take a walk, Terry" segment came out. It has been reprinted numerous times, including for this issue of Air Force Magazine, and even read into the Congressional record. Leaping out from the "talk" Colonel Corkin gives to fledgling pilot Terry is dialogue that goes straight to the heart of our project, the Wright Monument. You have to read it to feel it:

***"Well, you made it...you're a flight officer in the Air Forces of the Army of the United States...Those wings are like a neon light on your chest...I'm not going to wave the flag at you – but some things you must never forget... Every country has had a hand in the development of the airplane – but after all, the Wright Brothers were a couple of Dayton, Ohio, boys – Kitty Hawk is strictly in North Carolina... The hallmark of the United States is on every aircraft... So you find yourself in a position to defend the country that gave you the weapon with which to do it...but it wasn't just you who earned those wings...A ghostly echelon of good guys flew their hearts out in old kites to give you the know-how..."***

Milton himself was a Dayton, Ohio, boy, and he cherished that aviation heritage started by Wilbur and Orville Wright. His words have inspired and motivated generations of pilots and aviation enthusiasts. When the Air Force Academy was built, he wrote a poem, "To The Cadet Wing," which still reaches out and tugs at the heart of every incoming cadet.

One can only imagine what he would write about a magnificent, gracefully soaring, 144 foot wing span Wright Flyer III, 270 feet in the air over I-70/75...!

## Help Support NAHF Again This Year



The National Aviation Hall of Fame will hold its 51<sup>st</sup> Annual Enshrinement Dinner and Ceremony Friday, October 4<sup>th</sup>, 2013, at the National Aviation Hall of Fame Learning Center and adjacent National Museum of the United States Air Force.

Again this year, the Wright Image Group will support the event by reserving seats for as many members as sign up to attend. We will all sit at tables grouped together and decorated with our own centerpieces.

Please join us. Call 937-276-2963 to reserve your seats at Wright Image Group tables. We will invoice you for the total cost of your seats at \$150 each (approximately \$85 of which is tax deductible), collect your payment, and forward all our attendees' names and payments to the NAHF. The NAHF will send acknowledgement and invitation cards directly to you. **Seating is limited to 600 this year, and is only available by advance registration, so don't delay.**

This ticket price includes the Patron Welcome Reception in the Museum's Kettering Hall at 6:00 p.m., and the dinner and ceremony at 7:00 p.m. in the Museum's Modern Flight Gallery. Attire is black tie (dark suit optional).

The 2012 Dinner and Ceremony was thoroughly enjoyable, and the change in venue will make the 2013 event even more so! Join us!

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  
or visit our website,  
[www.wrightmonument.org](http://www.wrightmonument.org)

**Annual Membership Dues\***

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

*\*Applicable to Individuals, Families or Businesses*

**Board Member Spotlight**



**David Eidsaune**

Dave grew up near Seattle WA, was captain of his high school tennis team, and was an Eagle Scout. He attended the USAF Academy, graduating in 1978 with a Bachelor of Science degree in aeronautical engineering and engineering science, and served 33 years in the USAF. He retired in 2011 as a Major General, Director of Strategic Plans, Programs and Analyses, HQ Air Force Materiel Command, at WPAFB. As pilot, instructor pilot and test pilot, he has flown over 3200 hours in multiple fighter aircraft. He holds a Master's degree in aeronautical engineering from the Air Force Institute of Technology (AFIT), and from 2003 to 2005 was its Commandant. He served as Vice Commander of the Aeronautical Systems Center and Commander of the AF Security Assistance Center at WPAFB, as well as Commander of the Air Armament Center at Eglin AFB in Florida. During the first Gulf War he was the principal adviser to the Royal Saudi Air Force. During Operation Iraqi Freedom he guided the US effort to rebuild the Iraqi Air Force.

Dave is Chairman of the AFIT Foundation, and an Associate of Burdeshaw Associates. He is an Associate Fellow of the Society of Experimental Test Pilots and a National Defense Fellow of the Brookings Institution. He is an active member of Ohio TechAngels and the Beaver Creek Rotary. His hobbies are golf, tennis, and swimming.

**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 to \$100,000 - 24 months  
Over \$100,000 - Negotiable

The WIG is a proud partner of the National Aviation Heritage Alliance



**Make checks payable to:**

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With the following comment on the "For" line:

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