

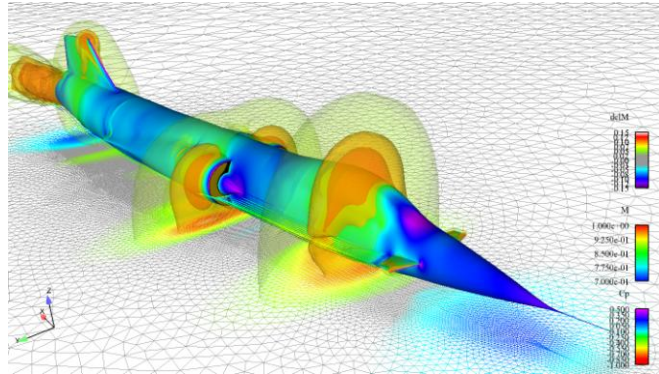
800 Newsletter & Eagles Lair Members

In this edition you will read about a brand new sponsor never before published, an exciting free offer, upcoming test location, possible cool contest and land speed record attempt date!

Even though the daylight is slowly lengthening here in the Pacific Northwest, temperatures remain in the 40's to 50's most of the time with an occasional snow flurry here and there in the foothills. Meanwhile, the team has been working patiently in the hangar on the North American Eagle a.k.a. "Queenie II".

While Steve Wallace and Tim Finley have been making improvements to the electrical system and adding a new computer cooling system to handle the extreme heat of the desert environs, Ed Shadle and Keith Zanghi have been jaunting about the country giving presentations to groups about the technological innovations used to make the NAE as safe as possible.

Many of our team members work virtual at home, rather than show up at the hangar each weekend. Ron Doll, Rex Walter, Mike Thoe, Don Mitchell and Jon Higley man their workstations moving the project closer to our goal every day.



Ron, Rex and Mike round up our aerodynamics team. Preliminary work has created some pretty neat graphics that you have seen on the website. Using a Lenovo ThinkStation, Don is tasked with taking the digital scan created by our friends at FARO Technologies and putting it in a format that the three can work their magic using Computational Fluid Dynamics (CFD). Using FaroArms, Laser Trackers and Photon Laser Scanners, Don ended with a file that had a point cloud of 30 million points. These points define the exterior surface of the Eagle in the computer and can be sent to other programs like CATIA V5.



They have invented advance nanolaminate alloys which have the characteristics of titanium and the weight of aluminum. What is truly amazing about the process, is we can now design complex shapes like wheel fairings, machine them out of prototype foam, and then

When Ron receives the data, he will use other programs that will eventually be sent to one of the largest supercomputers in the world for analysis. Another use of this digital data set is the ability to design fairings, camera housing and other aerodynamic surfaces. One such use that has never been released on landspeed.com is our new partnership with a Seattle company called Modumetal.



"grow" the nanolaminate metal over the surface! When complete, you simply remove the foam and remaining material is stronger than Rolled Homogenous Armor (RHA), the industry baseline for vehicle armor. To give you an idea how strong this material is, if you shoot a .270 caliber ballistic-tipped bullet at 2800 fps at a piece of 0.125 inch thick RHA, it will pass cleanly through it. When shot at the Modumetal advance nanolaminate alloy it simply bounces off of it! This is an ideal material for our wheel fairings as they are exposed to 800 mph approaching dirt! The material is so strong, that you can't even drill holes in it! You simply mold holes or threads into the material! It will one day revolutionize manufacturing. We are proud to be a part of this important R & D effort.

On February 24th many of the team members headed to the Seattle Museum of Flight for a presentation by Steve, Keith and Ed. SAMPE (Society for the Advancement of Material and Process Engineering) Seattle Chapter hosted the Puget Sound Materials Expo and Eagle was the keynote presentation. They wowed the audience with our presentation, *Challenging the World Land Speed Record!* It was a lot of fun and the audience had a great time!



Following the great presentation at the Museum of Flight, Keith and Ed caught a red eye to Savannah Georgia, arriving at the Savannah Westin around 11AM the next day. The two temporarily stowed their gear and headed to lunch at the Geomagic Convergence Conference.

The two were scheduled to give a presentation the following day to attendees at this gathering of Geomagic Software users. Before the night was over the two mingled with the attendees for an action pack night of virtual horse race gambling on the Cajun Queen Riverboat down the

Savannah River.!

The next day the two met the founder and CEO of Geomagic, Ping Fu. She has led its growth from a start-up to be the worldwide leader in digital shape sampling and processing (DSSP) industry. Geomagic has attracted more than \$8 million in capital from private and institutional investors, and won millions of dollars in research innovation grants from NSF and NIST. The company has been profitable since 2002, and increased its revenue by 2,105 percent during the last five years.



Before starting Geomagic, Ms. Fu was Director of Visualization at the National Center for Supercomputing Applications, where she initiated and managed the NCSA Mosaic software project . At the time she hired a young sophomore name Marc Andreessen who went on to form Netscape. Mosaic was later license to Spyglass Inc which led to the foundation for Internet Explorer. There is a pretty good chance the browser you are using to read this was develop by Ping Fu! If you ever wondered who was the real creator of the internet, look up Ping Fu. You will be amazed!

Learn more about Ping Fu in [Business Leader](#) and [Inc. magazine](#).



Following Keith and Ed's presentation at Geomagic Convergence, the two drove South to Kennedy Space Center (KSC) and home of the Starfighters Air Demonstration team. With security allowing them access to KSC, the two drove by well know sites like the Vehicle Assembly Building on out to the northern end of KSC to the hangers of the Starfighters. Located just off the shuttle runway, it was a unique experience for the two from Spanaway. Inside they were given a tour by Picard (aka David Gemas) of the Starfighters.

Inside were two single seat F-104C models and one two seat F-104D model. Later the three headed for the Valliant Warbirds Museum in Titusville where another two seater was on display awaiting for a air show on March 12th. It was a great trip and learning experience for the two, and vowed to increase our exchange of ideas with this unique company. Ed was instrumental in the team partnering with other NAE sponsors; S&S Turbine Services, American Valley Aviation and Oregon Aero.



On a recent speaking engagement to Savannah, Ed and Keith headed south to Orlando to see an friend of the project, Col Joe Kittinger, USAF (ret). Col Joe and his wife Sherry treated Keith and Ed with lunch and a ride in the Kittinger's 1948 London Taxi. At the end of the day, Col Joe presented the two with a DVD of Kittinger's life produced by REMAX

International and first aired on the REMAX Satellite Network. It is an amazing video showing Col Joe's incredible life!

Free DVD!

Now in an exclusive offer to 800 Club Members and Eagle Liars members, we will send you a free copy of the DVD, **The First Step Into Space!** Send your name and mailing address to our webmaster Jon Higley at:

jon@landspeed.com

Two big speaking engagements and appearances are in for the team. On April 16, 2009, Keith and Ed will be involved with a Dassault Systèmes Webinar. For those who don't know, a webinar is like a seminar, but over the internet using a program like WebEx.



This first three months of the year is also a period of testing. On two occasions the Eagle was transported to Spanaway Airport. Our last set of tests conducted on March 14th went very well!. Our electrical system has been completely reviewed with a brand new voltage regulator installed. When the engine was started, electric signals displaying on the oscilloscopes were very clean. Ed, Steve and Tim worked hard on the electrical system all winter and there was only one person smiling

harder that day: John Winchester. It was also a day of parachute functional testing. Captured with two high quality motor drives and video, both our high speed parachute (700 mph + deployment) and our low speed parachute (> 350 mph deployment) worked flawlessly! Both fired with an explosive charge out the back of the Eagle and would have entered the airstream and continue opening. On hand for the test session was Guy Gugliotta from the NY Times. He is a science writer for the paper and is writing large article on the North American Eagle project. He interviewed many of the team members and we look forward to a favorable story. We don't know the exact date it will be released, but we do know it will come out on a Tuesday. Apparently that is the day the science section is highlighted during the week.



On April 22, 2009 at 7AM, Keith, Ed and Steve Wallace will be speaking at COE 2009 Annual PLM Conference and TechniFair. Formerly known as the CATIA Operators Exchange, COE's membership includes CATIA users all over the world. This year the event is taking place in nearby Seattle WA at the Washington Convention Center.

This will be the fourth PLM summit we have been involved with Dassault Systèmes. We were keynote speakers at the IBM /

Dassault Systèmes PLM Summit in Las Vegas, another COE event. Then at the 2007 European CATIA Forum in Paris. Last year we were part of the Microsoft 2008 Innovation Forum. This event will show the power of the project as we partner with Lenovo to enhance their appearance at COE and promote their products, and their suppliers: AMD / ATI Graphic Cards.

In addition, Ed, Keith, Steve and Don will be in the Lenovo / AMD / ATI booth #215 for the entire conference (April 19 - 22). On display will be our nine foot scale model of the Eagle. With miniature decals supplied by Lisa and Thor Holden of Signs by Tomorrow Houston, some of the photos are tell the difference between the model and the real thing! We are really excited because the display will feature the use of Dassault Systèmes CATIA V5 software running on Lenovo ThinkStations and ThinkPads, with ATI Graphics cards designing the 56 foot long North American Eagle.

The booth will use 52 inch plasma screens running looping DVDs of the Eagle and a quad array of speakers showing CATIA screen shots and individual components. We will also be bringing one of our Eagle Machine, Inc / UREMET aluminum wheels along for people to see actual hardware. It is looking like a big show and will enhance the partnership between Lenovo, Dassault Systèmes and the North American Eagle.

Our next test session is looking like it will be the 1st or 2nd week of June. The tentative location is Edwards AFFTC (Air Force Flight Test Center). This will be the 3rd time we have used the famous air base for testing: The last time being in October 2005. Ed has been filling out mountains of paperwork in preparation for testing. As a backup, we will run at the Black Rock Desert. This year the playa has been flooded, which is good news for us. That means all the ruts, ridges and desert serpents will be leveled. If we run at Black Rock, all 800 Club and Eagles Lair members will be invited to attend. In the event we run at Edwards AFFTC, a closed AFB, things will be really restrictive with regards to spectator viewing. If Edwards is the location, we will come up with some sort of lottery and pick one of you to attend. Of course it won't be a free ride, they will have to report back to all of you!

Now the news everyone has been asking us for 11 years. We have now set a date of July 4th, 2010. By then we should have everything in place to break the current 763 mph world land speed record.

The Microsoft logo, featuring the word "Microsoft" in a bold, black, sans-serif font with a registered trademark symbol.

Although not an official sponsor, we would like to thank them for supplying our Lenovo ThinkStations and ThinkPads with Vista 64, Office Professional and Microsoft Project to manage our project.

We want to thank you for your support and dedication to our endeavor. We encourage you to continue spreading the word about us to your friends and family. We have reduced many of the prices on the Eagle Gear page (www.landspeed.biz) and will have pictures up in about week of the beautiful Ananda Parks modeling our gear.

The Facebook logo, consisting of the word "facebook" in a white, lowercase, sans-serif font on a blue rectangular background.

We know a lot of our fans are on facebook. Now the North American Eagle is on facebook! In fact many of our team members are also. It is just another great way to let everyone know what we're up to. We have many of our latest engine test videos up on the site. Turn you speakers down or you will blow them up, or seriously injure your ears! So if you are facebook member, you will know how to reach for us. Just type in North American Eagle and you will find us! Tell your friends!