

*Join Nemesis Designers and Air Racing Champions
Jon & Trish Sharp for a Weekend of High-Tech Excitement!*

HOT 'GLASS Fly-In 2005

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**May
20,21,22**

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HOT 'Glass Fly In and Symposium May 20, 21, 22

Las Cruces, New Mexico – Aviation enthusiasts from across the nation will gather in Las Cruces, New Mexico to participate in ***HOT 'GLASS Fly-In***. The event starts Friday, May 20th and runs through Sunday the 22nd at the Las Cruces International Airport (KLRU).

HOT 'GLASS is the only fly-in of its kind in the nation and several hundred high-performance composite aircraft are expected to attend. ***HOT 'GLASS*** will showcase aircraft from manufacturers such as Lancair, Glasair, Tango, Burt Rutan's Long-EZE, White Lightning, the new Nemesis NXT and many more.

Nine-time Reno National Air Racing Gold Champion pilot and New Mexico native son Jon Sharp* will arrive in the Team Nemesis NXT #3 to share his experiences. Planned events include demonstration flights, technology seminars, roundtable discussions, and expert speakers. Saturday morning, Experimental Aircraft Association Chapter 555 will host a pancake breakfast. Saturday evening, Adventure Aviation will host an Enchilada Dinner featuring keynote speaker Jon Sharp who has a special announcement for the aviation community. There will be lots of fun and festivities in the high desert for everyone.

All pilots and aircraft as well as the general public are welcome. There are plenty of activities for all. In Las Cruces, you will find museums and historic Old Mesilla, which boasts some of the best shopping opportunities in the Southwest. Great weather and beautiful mountains await you. Plan now to attend the fastest "fly-in" in the nation!



**Nine-time Reno National Air Racing Gold Champion Jon Sharp holds 16 world-speed records. He has been awarded three international Bleriot Medals as well as four Pulitzer Aviation Trophies for his outstanding aviation accomplishments. His original Nemesis racer is now exhibited at the Smithsonian Air and Space Museum in Washington DC.*

Jon will be our Keynote Speaker for the Saturday evening dinner and will make a special announcement. For more info log onto www.nemesisnxt.com

The Schedule

Friday Afternoon Seminars

What You Didn't Know About Composites (2 pm) - This will include some basic design facts and techniques, most of which you will not find in textbooks. Comparison of wet and pre-preg construction will be included. Also, practical notes and some historical pictures of some Scaled Composites fabrication. Presenter – Chuck Ritchie

Building Composite Aircraft in Record Time (3 pm) – New design, manufacturing, and assembly concepts allow builders to complete their airplane in as little as six months. Emphasis on techniques that can cut hundreds of hours off your build time. Presenter – Dennis Funnemark

Happy Hour 5 to 6 pm

Saturday Events

EAA Chapter 555 Hosts “Pancake ‘N Omelets” Breakfast – 8:00 10:30 AM

Aerodynamic Drag – It's in the Details (1 pm) – Retired Scaled Composites engineer Chuck Ritchie shares his hard-won experience about aerodynamic drag, revealing many little-known facts and tricks. He will demonstrate how detail drag reductions can greatly improve low speed flight efficiency, an often-neglected area. High performance regimes will be included with special attention on pusher vs. tractor power plant configurations. Presenter – Chuck Ritchie

So, You Think You Want to Race at Reno? (2 pm) – An introduction to the basics of assembling a team, selecting a class, and qualifying to race at the Reno National Championship Air Races. Real Life stories about success and failure in the fast paced world of air racing. Presenter – Will Mathews

The Future of Composites in Experimental Aircraft Construction (3 pm) – *Experimental Aircraft Technology Magazine* editor Brett Hahn leads a roundtable discussion of the current status of composite manufacturing techniques used in the aviation industry. An exploration of what role composites could play in future aircraft designs.

Happy Hour - 5 to 6 pm

Enchilada Dinner - 6 pm to 7 pm

Keynote Speaker John Sharp - 7 to 8 pm

Sunday – Departure Day, no events

Meet Our Speakers -

Chuck Ritchie -

Chuck took BS & MS degrees in physics from New Mexico State University and has worked in the aerospace and composites industry since 1966. He founded Mechanical & Composite Engineering (MCE) in '97. MCE designs and analyzes composite aerospace components. MCE Projects range from space and rocket components, composite structures, historic replica aircraft, wind turbine blades, and landing gear.

Chuck was the eighth employee hired at Burt Rutan's Scaled Composites, Inc. in 1982. He started as Project Engineer for the Beech Starship, developed/headed R & D, served as V/P of engineering and retired as Technical Director in '97. While at Scaled Composites he headed or worked on many projects including the America's Cup Hardsail, in-house composite materials development, the Pegasus spacecraft wing, and the NASA X38 test vehicle. As a volunteer, Chuck performed the design of the Voyager "around the world" aircraft landing gear.

Dennis Funnemark -

Denny Funnemark received an appointment to the United States Air Force Academy and graduated with an engineering degree in 1970. Immediately upon receiving his commission, he was sent off for pilot training in T-37s and T-38s. He was deployed to Ubon, Thailand with the 8th Tactical Fighter Wing, where he completed 140 missions during the Vietnam War. Upon returning to the US, he became an instructor pilot in the F-5 and logged 1,700 hours while training military pilots from various countries. In 1981 he stepped into F-15 Eagles and accrued another 600 flight hours while based at Langley Field in Virginia and Eglin Air Force Base in Florida.

Denny is ATP rated and has logged over 4,300 hours in all types of high performance aircraft. He currently is the Chief Test Pilot for Team Tango Aircraft Company and provides training for the company's Tango 2 and Foxtrot.

Will Mathews -

Will Mathews, based in Greenfield Indiana, is a frequent competitor at the Reno National Championship Air Races. He flies a highly modified White Lightning and won the Sport Class Silver Cup final his first time out in 2002. He and his team designed and built a supercharger-based Auxiliary Boost Unit, or "ABU. The ABU, which is installed in the tail cone, uses its own engine to power the supercharger, doubling the horsepower to the rather small IO 360 Continental engine. The maze of tubes and stainless steel sheetmetal prompted Mathews to name the airplane "Moonshine".

Will grew up working in a Massey Ferguson tractor dealership. He was awarded a scholarship to the prestigious General Motors Institute, where he earned a Bachelor of Science in Engineering. Formerly with General Motors and Cummins Engine Corporation, he holds more than 15 U.S. and international patents. Later he took his MBA from Indiana University and is currently a senior engineer for International Navistar Corporation. He is involved with the design and manufacture of the turbocharged, intercooled Power-Stroke diesel engines for Ford trucks.

A pilot for over 30 years, Will is instrument rated and holds an A&P license.

For additional information and to RSVP call:

Adventure Aviation at 505-525-0500 or log onto www.adventureaviation.com

Or

Experimental Aircraft Technology Magazine 505-635-7444

www.extechmag.com

For more information about Las Cruces, visit www.lascrucescvb.org.

Additional Weekend Activities

Historic Old Mesilla - Just 10 minutes from LRU. In the 1850s, Mesilla was one of the most popular trade centers between the east and west coasts. Now Old Mesilla is a quaint little village with beautiful adobe architecture centered around a plaza filled with shops, boutiques, and restaurants.

White Sands Missile Range Museum & Missile Park – Just 45 minutes east of LRU. These facilities document the origin of the U.S. missile and space programs, and the beginning of the nuclear age. The Missile Park features a stunning array of missiles, drones, engines, and weapons that won the Cold War. WSMR is located about 25 miles east of the city on US Highway 70. Park outside the base gate and tell sentries you are going to visit the museum and Missile Park. The range is open weekly Monday - Friday 8:00 a.m. - 4 p.m., Saturday and Sunday 10 a.m. - 3 p.m., closed for Federal holidays. Free. (505) 678-8824.

War Eagles Museum – Just 1-hour south from LRU. A spacious museum displaying World War II Warbirds and jet fighters used in the Korean Conflict and later. These include famous fighters such as the P-51 Mustang, the P-38 Lightning, the P-40 Warhawk, the F-4U-4 Corsair, plus a twin-engine Invader bomber and German observation aircraft. Among the jets built in the 1950s, you will find an F-86 Sabre, a T-33 Silver Star and MIG-15s. Located at the Doña Ana County Airport at Santa Teresa, New Mexico; open to the public Tuesday through Sunday from 10 am to 4 pm. Admission fee. 505-589-2000

Farm & Ranch Heritage Museum – Just 20 minute from LRU. A tour of the 3,000-year agricultural history of New Mexico with hands-on displays and live demonstrations. Located 1.5 miles east of Telshor on University Avenue. Museum hours: Monday - Saturday 9 a.m. - 5 p.m., Sundays noon - 5 p.m. \$3 Fee. (505) 522-4100.

Space Murals Museum - This museum features a large water-tower mural and a museum honoring the space program. There is also an astronaut gallery, space artifacts, and gift shop. The museum is located about 10 miles east of Las Cruces at 12450 Highway 70 East. Gallery hours are Monday - Saturday 9 a.m. - 5 p.m., Sunday 10 a.m. - 5 p.m. Admission Fee. (505) 382-0977

Stahmann Farms – Just 15 minutes south of LRU. One of the world's largest pecan orchards offers weekly tours of their candy and pecan processing plants. The farm is located seven miles south of Las Cruces on Highway 28. Free. (505) 526-8974

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