

Air Racing Seminar

August 15th, 2026 10 AM – 2 PM w/Lunch

KSOP, Moore County Airport, S. Pines NC

Hosts: AeroSouth & Sovereign Aerospace

MEET – Experts in sport air racing & GO-FAST engineering

LEARN – How to enter the sport with ANY aircraft

SEE – Examples of FAST sport aircraft & components

RSVP – Kent at AeroSouth, Box Lunch \$20 paid in advance

kent@aerosouth.net, 910-568-2580, www.aerosouth.net



Speakers

Rick Cloutier - Director, Moore County Airport

Seth Hatchell - Executive Director, Laurinburg-Maxton Airport

Jim & Donna Wilson – Sport Air Racing League (SARL)

Sean Van Hatten – Sport Class Air Racing Association (SCARA)

Andy Findlay - National Champion, Sport Class Air Racing

Randy Difani – National Champion, T-6 Class Racing

Nigel Speedy - RV-8 builder, professional test pilot

Benjamin Misegades – VP Engineering, AeroSouth Technology

Dr. Kurt Barnhart – Professor of Aeronautics, Kansas Stat Univ.

Slim Thompson – Founder and CEO, Sovereign Aerospace (host)



Air Racing Seminar at KSOP

Saturday, August 15th, 2026

AGENDA

0930-1000 - Welcome coffee and snacks. Nametags. **PayUlli for lunch.** Show and Tell.

1000 - 1015 - Welcome from:

- AeroSouth Founder & President, **Kent Misegades.**
- **Rick Cloutier**, Executive Director, Moore County Airport Authority.
- **Darryn Burich**, Business Development Director, Moore County Ec. Dev. Partnership.
- **Phillip "Slim" Thompson**, Sovereign Aerospace Founder & CEO.
- **Attendees**, please introduce yourselves.

1015 - 1100 - Fundamentals of SARL and SCARA Air Racing. Three Speakers:

1015-1030 - **Jim Wilson**, Director, Sport Air Racing League (SARL). (ONLINE CALL)

1030-1045 - **Sean Van Hatten**, President, Sport Class Air Racing League (SCARA). (ONLINE CALL)

1045-1100 - **Seth Hatchell**, Executive Director, Laurinburg-Maxton Airport (KMEB).

1100 - 1200 - First Solo to Air Race Pilot. Three speakers:

1100 - 1120 - First Solo to Reno Sport Class Champion - **Andy Findlay.**

1120 - 1140 - First Solo to Reno T-6 Class Champion - **Randy Difani.**

1140 - 1200 - First Solo to Reno P-51 Mustang Racer - **Rob Gordon.**

1200 - 1215 - Box Lunch Distribution & Blessing. Aircraft ramp visits of aircraft.

1215 - 1345 - Lunch Speakers. Three speakers, 30 minutes each.

1215 - 1245 - Tips for Testing Speed Mods - **Nigel Speedy**, Test Pilot, Leonardo Helicopters.

1245 - 1315 - Rapid Product Development for Air Racing - **Kent Misegades**, Founder & President, AeroSouth.

1315 - 1345 - Early Air Racing History - Beginnings to 1930s - **Dr. Kurt Barnhart**, Professor of Aeronautics, Kansas State University.

1345 - 1400 - What's Next discussion. More Q&A with speakers & Airplane Walkarounds.

1400 - Departure.

AFTER THE SEMINAR SUGGESTIONS:

Fly/Drive Visit KMEB in Maxton, NC for a tour of this historic, immense airfield, a 40-minutes drive south of KSOP.

Fly/Drive Visit BQ1 in Carthage, NC for some great BBQ at the **Pik 'n Pig** Restaurant on the Field



Rapid Product Development for Air Racing



- **AeroSouth Technology** - Leading Supplier of low-drag, light, carbon composites for RVs and other homebuilts. Christian, family-owned business with no debt. Based in Seven Lakes, NC.
- Partner: **Sky Designs Aero**, Ken Krueger, 16 years Chief Engineer at Van's Aircraft. Christian, family-owned business with no debt. Based in Melba, ID. (Sunrise Skypark – ID40)



If I ascend to the heavens, You are there; Psalm 139:8



HOMEBUILT AIRCRAFT BUILDERS & OWNERS



- **We are the Leading Supplier** of low-drag, light, carbon composite fairings for **all RVs**.
- **Air Doors** pre-installed in all wheel fairings.
- Self-Aligning, **Quick & Easy** to Install.
- Fly **2-8 knots faster** with our wheel fairings.
- **NEW** – “Two-Knot” **Tailwheel Fairings** !
- **100%** Engineered & Made in the **Carolinas**
- Custom engineering & fabrication of **GO FAST** aero mods, RVs & other homebuilts
- Pick up Orders at **BQ1** and we'll treat you to **lunch** at the **Pik 'n Pig**.
- See all Details at **aerosouth.net**



AeroSouth Technology, Seven Lakes, NC, 910-568-2580

Tailwheel Fairings - 1

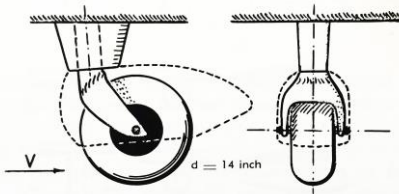


Figure 39. Drag of tail wheel (25,b). Coefficient $C_{Dq} = 0.58$ (without fairing), $= 0.49$ (with rear fairing), $= 0.41$ (with forward fairing), $= 0.27$ (with complete fairing).

- **Background** – Hoerner predicts 50% drag reduction. Common on Golden Era race planes, eg Northrop Gamma.
- **Nigel Speedy** measures 1 knot gain on RV-8 with simple fiberglass fairing (Kitplanes, January 2018).
- **Existing TW fairings** – From Van's Aircraft and Flyboy Accessories – difficult installation, fragile, out of production.
- **Objectives** – 2+ knot speed gain, simple installation, robust, affordable, 3D printed at AeroSouth from carbon PETG. Fits common TW forks. 360 degrees swiveling. Towbar compatible.





Tailwheel Fairings - 2

- **Approach**

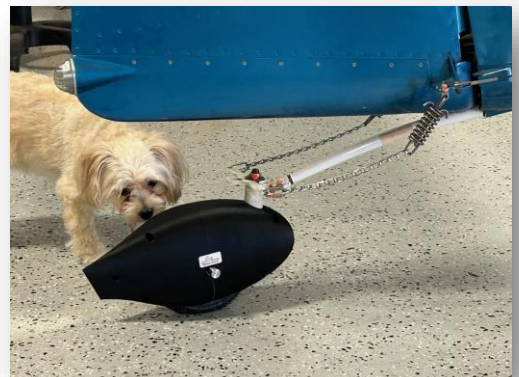
- Obtained **loaner** hardware.
- **Scanned** geometry from actual aircraft.
- **Customers** scanned with Polycam app on iPhones.
- Built models in **Onshape & Solidworks** and printed multiple prototypes on **Bambu P1S**.
- **Flight tested** by multiple friends on RV-8 & RV-14.
- From concept to production in **four months**.



- **Current Status**

- Support for Van's OEM, Flyboy Accessories Condor2 / Doug Bell / Screaming Eagle, JDAir on RVs, Thorp T-18 and others.
- Cost: \$250-\$300
- Delivery: 1-2 weeks

*Many thanks to Nigel Speedy,
Larry Eversmeyer and Josie!*





Glasair III Gear Door



- **Background** – Chris Mahoney, owner of Glasair III “Blown Budget”, contacted us on March 1st, 2026. He needed a set of stiffer, lighter gear doors – by the end of the month!
- **Approach** – A mold was created from a spare set of original fiberglass doors. We performed a layup study with & without Divinycell cores. Divinycell was kindly provided by Jamie Fettig of Veloce Aircraft, Whiteville, NC.
- **Outcomes** – Two sets of carbon doors were shipped to Mahoney on March 24th. Installed with time to spare for the SCARA Pylon Racing Training Camp (PRTC), May 26-30, Las Cruces, NM. A 3rd set was sold to another Glasair III owner.
- **Blown Budget** – Will race at the 2026 National Championship Air Races, September 16–20, 2026, Roswell, NM.

See “La Zoom” article
In Kitplanes, 5/30/2023