



Southwest Soaring

Quarterly Newsletter of the U.S. Southwest Soaring Museum

A 501 (c)(3) tax-exempt organization

An affiliate of the Soaring Society of America, Inc.

November 2011



Arlen E. Moore's homebuilt SS-1

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Cover: Arlen Moore's SS-1, ready for assembly.
Story page 3.

News from the President

George Applebay

The museum has a lot to be thankful this year. Alice C. Johnson of Dallas, Texas, has made an unrestricted donation to the museum of \$100,000. Alice Johnson is well-known to the soaring community, especially to contest pilots and organizers. For decades she crewed for her husband, 11-time National Champion Dick Johnson, at contest sites across the US and around the world. Some of this money will be used to add a library, classroom, and storage area to the museum display building in Moriarty. This new educational facility will be dedicated to Alice. We invite all of Alice and Dick's friends and relatives to join us for the opening when this new facility is complete. This is not the first donation from the Johnsons. During the initial museum construction campaign, they gave a substantial number of shares of Texas Instruments stock that went a long to helping get the job done. We are extremely grateful to Alice for this generous donation.



An early photo of Alice and Dick

Other News

The museum is the new owner of a very unusual Schweizer 1-26. See the story inside this issue.

After receiving a coat of paint, the Arlen C. Moore SS-1 homebuilt sailplane is ready for display. See the story next page.

Our museum continues to support the soaring community. During the Region 9 Super Regional and Modern Class contest in Moriarty, we provided meeting space and banquet space. In gratitude, the contest donated \$500 to the museum.

Arlen C. Moore SS-1

Arlen Moore's SS-1 was donated to the museum in 2005. It had been recovered before coming to the museum and, therefore, was never displayed. George Applebay recently painted the new fabric areas and this significant glider is now ready for rigging and display.

The SS-1 is a high-wing, single seat, FAI Standard Class glider that was designed and built by Arlen C. Moore of Oregon. It is interesting to note that in Arlen's younger years, when he worked in a plywood factory, he lost the sight in one eye to a splinter of wood. Nevertheless, Arlen was able to conduct a successful and productive life in the wood industry as well as gaining a pilot's license. He completed the ship in less than three years (in 1966) with the help of his wife and young son. Arlen earned the gold badge (#806) in this glider, completing the final leg in 1973. Arlen was described by late fellow pilot Robert Lee Moore (no relation) as a perfectionist's perfectionist.

Moore made flights to 18,000 feet and 200 miles in the ship. The SS-1 was featured in the January 1974 issue of *Soaring Magazine*, "Building the SS-1; Soaring the Steens," by Arlen Moore and Patrick McGrath, Jr. The ship can be flown with an open cockpit as illustrated on the cover page of that issue (see page 4). Arlen pioneered the soaring site at the Alvord Desert, a dry lake at the base of Steens Mountain in southeast Oregon.

The SS-1 is of predominantly aluminum construction, with the wing partly covered with sheet aluminum and partly doped aircraft fabric covering. Fiberglass was used for the nose, wing junction, and tail cone. All the ribs and bulkheads are of .040 6061 T4 aluminum. All metal surfaces are flush riveted except for the aft section of the fuselage. The SS-1 features a cantilever semi-tapered wing with DFS dive brakes, a fixed faired wheel, and sports a yellow paint job with red trim.

General Characteristics

Wingspan: 48.1 ft
Wing area: 121 sq ft
Aspect ratio: 20:1
Airfoil: NACA 65-618
Empty weight: 486 lb
Gross weight: 690 lb

Performance

Maximum glide ratio: 30:1 at 60 mph
Rate of sink: 2.3 ft/s at 60 mph
Wing loading: 5.7 lb/sq ft



Spar attachment for the SS-1.



Control mechanism.



Aileron connections.

Visit our museum to see this unique glider "up close and personal."

SOARING

JANUARY 1974

65 CENTS



Schweizer 1-26C, Serial #484

This glider was donated to the museum in November 2011 by Ronald Cyr of Mansfield, Texas. Incredibly, this is a zero-time 1-26; it has never been flown! The glider kit was originally purchased by the US Air Force Academy, but never built. The kit then passed through several hands before being completed by Ron Cyr. We hope to have it hanging in the museum in the near future.

The Schweizer 1-26C was the kit version of the 1-26B. The B Model was produced with metal

covered wings and some refinements for pilot comfort and visibility. Along with the metal covered wings came another 25 pounds in both empty weight and maximum gross weight. Along with the C, came a multitude of extras or options such as fiberglass nose, wheel cover, stick boot, swept tail, oxygen rack, adjustable rudder pedals, and fairings. The minimum sink is 2.7 fps and maximum L/D is 23:1 at 49 mph. The photo below shows 484 on its factory standard trailer, ready to be rigged.



Dave Leonard Selected for US Soaring Team

Museum Board Member Bob Leonard is bursting with pride since his son, Dave, was chosen to represent the United States at the World Soaring Championships to be held in Marfa in 2012. Dave currently is based at Kelly Field, in Elbert County, Colorado, and flies with the Black Forest Soaring Society.



Dave Leonard at Logan, Utah, in 2010.

Directions to the Museum

Traveling East on Interstate 40, 35 miles from Albuquerque, bear right at exit 197 onto Old Highway 66 East Moriarty. We are the big building on your left. Traveling West go right at exit 197, entering Old Highway 66. See us on your left.

**Your membership number
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Benefits of memberships include:

1. Free admission to museum facilities.
2. 10% discount on gift shop purchases.
3. Receive all USSSM mailings.
4. The satisfaction of knowing that you are helping to build a first-class museum.

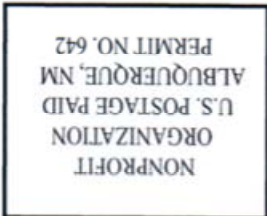
Life members and major contributors and their minor children receive these benefits for life. Other members receive them for one year. Family, Supporting and Sustaining include minor children. Supporting and Sustaining accrue toward a Life membership.

Send check to: U.S. Southwest Soaring Museum
P.O. Box 3626
Moriarty, NM 87035

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