

## Abstract

Using Manned Surrogates in the testing of Unmanned Air Vehicles.

This Oral Presentation will present historical and personal experiences in the use of piloted test bed aircraft configured for the purpose of replicating the testing of unmanned air vehicles prior to the first flights of the UAV. Emphasis will be on use of manned "UAV surrogates" to "burn down" risk before first flights of UAV aircraft. The presentation will cover the criteria used in the selection of the test bed aircraft, configuration, and lessons learned during the accomplishment of the flight test. Numerous examples of past UAV flight test programs and associated lessons learned will be presented. The presentation will be oriented toward an audience of test pilots, flight test engineers and flight test managers that may be involved in future testing of UAV aircraft.