

# The Vertical Flight Society Southwest Chapter presents

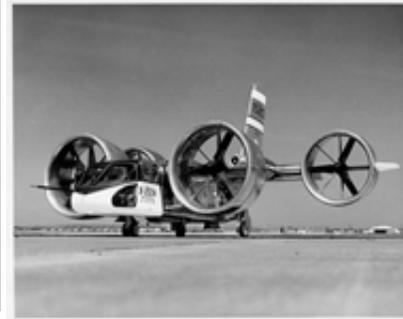


a presentation by

## Erasmo Pinero

Principal Engineer, Bell Textron  
Propulsion Analysis, Integration  
and Flight Test

Wednesday, March 2, 2022



## The Bell X-22A: Technical History and Lessons Learned

Erasmo's presentation will cover the overall design of the Bell Aerosystems X-22A tilt-duct V/STOL research aircraft, its importance to V/STOL research, lessons learned, and contributions to the science of V/STOL flight. The presentation will include the road leading up to the X-22A from concept to contractual hurdles, to flying test bed; and how the program overcame unforeseen technical challenges to become one of the most successful X-planes in the history of V/STOL flight research. The pioneering contributions of the X-22A to more recent powered lift aircraft and vehicles of the future will be explored.

Mr. Piñero has over 35 years of aircraft operations, systems integration, and flight test experience. He has been with Bell Textron since 2012, where he is currently responsible for propulsion analysis, engine systems integration, and flight test propulsion discipline support on the Bell V-280 demonstrator. Previously, Mr. Piñero worked in propulsion integration and flight test on the Bell Boeing V-22, the F-35 *Lightning II*, and its predecessor the X-35 Joint Strike Fighter. Additionally, he has worked on structural design, avionics system installations, and airframe structural analysis for the Sikorsky S-76, S-70, S-92, and *Comanche* helicopters. Mr. Piñero is also a veteran of the United States Navy, where he served as a Naval Flight Officer, accumulating eight hundred hours of flying time on twelve different naval aircraft.

Outside of his professional responsibilities, Mr. Piñero is interested in aircraft preliminary design, propulsion integration, preservation, and aviation history. He is a frequent contributor to trade magazines and the Journal *Vertiflite* of the Vertical Flight Society, and regularly delivers lectures and presentations at selected universities, conventions, professional societies, public schools and aviation-oriented clubs, with the goal of educating the public and encouraging young engineers.

### Time and Location:

**Texas Star**  
**1400 Texas Star Parkway**

**6:00 PM – Social**

**6:30-7:30 PM – Dinner, Presentation, and Q&A Session**

**\*Webinar login details to be emailed to registrants**

### Price:

**Members: \$30**

**Member Guest: \$35**

**Non-Members: \$40**

**Students: FREE**

**Virtual Option: Free\***

Tickets purchase after RSVP deadline will incur additional \$5 fee.

**For additional information on the dinner or VFS, please feel free to contact one of the following people:**

Elizabeth Ward (817) 280-3806

Hong Xin (817) 280-3853

Nathan Wu (817) 280-4209

Casey Matsler (940) 435-5141

**Please RSVP by completing the form on our website by 7:00am, Tuesday, March 1, 2022.**

**If you have any issues with the form, please email Elizabeth Ward at [eward01@bellflight.com](mailto:eward01@bellflight.com)**

**[southwest.vtol.org](http://southwest.vtol.org)**