

Since 1973, Bihrl Applied Research Inc has established its reputation as the industry leader in data acquisition, analysis and modeling of the most complex flight behaviors. Beginning with ground breaking work in the acquisition and application of dynamic test data for the prediction of aircraft spins, BAR has guided the commercial and military aircraft communities in the application of these data in high-fidelity, physically representative simulations of aircraft stall and post-stall behavior.

STALLBOX Meets Industry Needs 2019 ↗

- Bihrl works with airlines and training centers to meet FAA's 2019 UPRT training deadline
- Bihrl supports numerous additional aircraft types
- Bihrl enhances UPRT instructor displays

FAA Publishes Final Rule on UPRT & Full Stall Training (14 CFR Part 60 Change 2) 2016

Bihrl Introduces STALLBOX Simulator Update Solution 2014

- Bihrl B737NG STALLBOX solution installed at FAA center in Oklahoma City
- P-8A STALLBOX solution demonstrated on P-8 trainer

14 CRF Part 121 Change Requiring UPRT and Full Stall Training 2013

FAA Selects Bihrl for Stall Research 2011

Bihrl selected by FAA to investigate development of a type representative stall model for the B737NG



Bihrl Demonstrates Full Stall Model to the FAA 2010

Bihrl demonstrates full stall model on a B737 full-flight simulator at the FAA Mike Monroney Aeronautical Center

ICATEE is Formed Bihrl is an Original Member 2009

Air France, Colgan Air Accidents 2009

Navy Selects Bihrl for Research Contract 2001

"A System for Modeling the Effects of Unsteady Aerodynamics in Flight Simulations"

High Angle-of-Attack 90s/2000s

Bihrl Develops High Angle-of-Attack Models for Use in Military Flight Training

Pioneering Aeronautical Research & Development 1970s/80s

William Bihrl Leads Rotary Balance and Spin Analysis Research -- Military and Commercial
Ultimately leads to the development of a wind tunnel test capability that provides insight into the driving aerodynamic forces and moments that produce the stall and post-stall behaviors.
Bihrl Applied Research Inc. was founded in 1973

2016 STALLBOX is Industry-Proven Solution for Military & Commercial Applications

- Bihrl B737NG STALLBOX installed on Alaska Airlines B737-800, receives first FAA qualification under Part 60 Dir 2
- Bihrl P-8A STALLBOX solution installed on P-8A training device and accepted by the US NAVY
- Bihrl A320 stall model implemented and demonstrated at FAA center in Oklahoma City

2015 STALLBOX Demonstrations

- Bihrl A330 STALLBOX solution installed & demonstrated at FAA center in Oklahoma City
- Bihrl G450 Stall Model Demonstrated

2013 Bihrl Continues Full Stall Research

- Bihrl participates in FAA study of aerodynamics models for full stall training
- Bihrl awarded FAA BAA research contract to investigate the development of "Type Representative Models" for commercial full stall training

2010 Congress Mandates UPRT & Stall Training

Public Law 111-216, Airline Safety and FAA Act of 2010 – Mandates UPRT and Stall Training for Part 121

2009 RAeS Silver Award Winner

Bihrl presents award-winning paper "Aerodynamics Modeling for Training on the Edge of the Envelope"



2008 Navy Selects Bihrl for Research Contract

"Total Envelope Modeling Application for Transport Aircraft"

1995 Navy Selects Bihrl for Research Contract

"Dynamic Wind Tunnel Testing and Modeling of Non-linear Unsteady Aerodynamics"

1980s/90s Pioneering Aeronautical Research & Development

Bihrl Leads Industry in High Angle-of-Attack Modeling R&D for Military Applications

Bihrl develops high angle-of-attack aerodynamics databases, facilitates engineering and pilot training simulation applications for over 150 aircraft configurations.

