



**FRASCA**  
FLIGHT SIMULATION

**Training for Safety:  
Use of Simulation**

**International Helicopter  
Safety Symposium**

**September 30, 2009**

Frasca International, Inc.  
906 East Airport Road  
Urbana, IL 61802

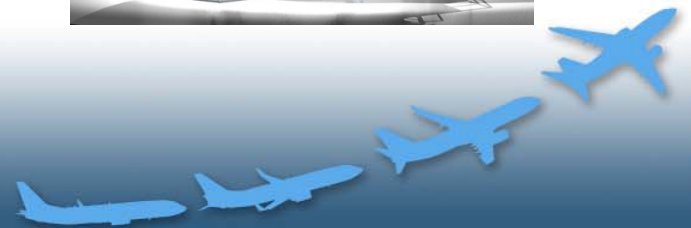
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[www.frasca.com](http://www.frasca.com)



# Who is Frasca?

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- Family owned company since 1958
- Proven State of the Art Products for airplanes and helicopters
- Reputation for Quality
- Over 2,000 Simulators in more than 70 Countries
  - less than 100 are helicopter devices



# Where does simulation fit with IHST mission?

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Training is identified as a major intervention in the prevention of helicopter accidents.

Simulators (FFS and FTDs) are “tools” that enable higher quality, more effective training.



# Simulation Training Benefits

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Better learning environment.

Opportunity for scenario-based training and repetition.

Train maneuvers/emergencies not possible in the real aircraft.



## A note of caution:

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Simulation is an excellent addition to a good training program, but... *it does little to make a poor training program better.*



## Bad News – Good News

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What is the current state of the simulation industry to support helicopter needs?



## The Bad News Is....

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Current simulators target the more expensive complex aircraft – little support for single engine turbine fleet

Expensive – High cost but low perceived value

Visual representations are extremely important to allow mission specific training – not good enough yet

No regulatory support for training credits

Not enough devices in the right places



## The Good News Is....

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More interest by sim manufacturer's, training providers,  
and OEMs

Technology improving – costs going down as usefulness  
goes up

More non-motion devices appearing for single engine  
turbine fleet



# ICAO 9625 International Working Group - Helicopter

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International effort to define recommended simulator standards based on training needs.

Sponsored by ICAO and Royal Aeronautical Society.

First time helicopter simulation requirements have ever been developed independent of airplane requirements.

Excellent Industry Participation.

Increases possibility of harmony between US/Can, EASA, and other locations throughout the world.



# Future Challenges

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Sim Manufacturer's – Build devices the industry requires at a reasonable cost.

Training Providers – Offer more locations, mission-specific training, and cost/value benefits.

Operators – Develop and implement complete training programs designed to maximize simulator training.

Regulators – Encourage use of simulation with appropriate training credits.





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Thank You for your  
Attention.

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