

Handling Qualities Technical Meeting 2025

Huntsville, Alabama, USA
22 - 23 January 2025

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VFS Handling Qualities Meeting Agenda January 22-23, 2025

Wednesday, January 22, 2025	
0730-1200	Attendee Registration
0730-1200	Presentation Material Drop-off for Authors
0800-0815	Welcome by Chapter President – Dr. David O’Brien
	Meeting Objectives by General Chair – Mr. Scott Smith
0815 - 0900	Opening Keynote: COL Ryan C. Nesrsta, US Army, Program Manager, Utility Helicopters <i>Path Forward for UHPO & Thoughts on Autonomy for the Enduring Fleet and FVL</i>
	Session I: Test and Evaluation
0900-0930	<i>A Comprehensive Overview of the Handling Qualities Studies Conducted in the Vertical Motion Simulator for the Advanced Rotorcraft Configuration Testing of Increased Capabilities...1</i> Tom Berger, Carl Ott, U.S. Army Combat Capabilities Development Command, AvMC
0930-1000	<i>Flight Loads and Aeromechanics Characterization of a Soft Inplane Hingeless Rotor Control System during Handling Qualities Testing...20</i> Marc Alexander, National Research Council of Canada
1000-1015	Break
1015-1045	<i>Preliminary Evaluation of Stability and Control of a Lift + Cruise eVTOL Configuration...34</i> Justin Martin, U.S. Army Combat Capabilities Development Command, AvMC
1045-1115	<i>Preliminary Findings from FAA sponsored Flight Tests of Handling Qualities Task Elements for VTOL Aircraft...47</i> Martin Shubert, Tiltrotor Flight Test Consulting LLC, Mike Jones, Systems Tech. Inc.
1115-1145	<i>Airbus H145...58</i> Carl Forsling, Airbus
1145-1245	Lunch
1245-1345	Day 1 Keynote: SES Dr. Stephanie Reitmeier Director of the Software, Simulation, Systems Eng. Integration Directorate (S3I), US Army DEVCOM AvMC
	Session II – Flight Controls
1345-1415	<i>Evaluation of Active Sidestick Failure Mode Handling Qualities: Paper...66</i> Tom Berger, U.S. Army Combat Capabilities Development Command, AvMC; Kevin Christensen, Seung Baik & John (Jack) Rominger, Bell Textron Inc., Sam Clark, IronMountain Solutions
1415-1430	Break
1430-1500	<i>An Analytical Study of Helicopter Handling Qualities Characteristics due to Active Force-Sensing Side-Stick Utilization...79</i> Marc Alexander, National Research Council of Canada
1500-1530	<i>Capital Architecture...95</i> Lyle Chamberlin, Near Earth Autonomy
1530-1600	<i>Handling Qualities for the Valiant: Presentation Not Available for Distribution</i> Larry French, Griffon Aerospace
1600-1800	Social

Thursday, January 23, 2025	
0730-1200	Attendee Registration
0730-1200	Presentation Material Drop-off for Authors
0830-0845	Day 2 Welcome by Technical Chair – Mr. Eric Grigorian
	Session III: Human Factors
0845-0915	<i>Human Factors System Safety Processes for Flight Director Modes...103</i> Tia Larsen-Calcano, PM FLRAA
0915-0945	<i>Apache Pilot Workload: Discussion Only (No Presentation)</i> COL Daniel Thetford, US Army, Program Manager, Apache Helicopter
0945-1015	<i>Handling Qualities MTEs Evaluation Methodologies in Preliminary Design of High-Speed Rotorcraft Configurations...112</i> Fabio Riccardi, Matteo Mamino, Matteo Pecoraro, Andrea Ragazzi, Leonardo Helicopters
1015-1030	Break
1030-1100	<i>PIO and Handling Qualities Prediction Using the USAFTPS Bjorkman PIO Data Set...124</i> Ed Bachelder, San Jose State University; Eileen Bjorkman, Air Force Test Center; Bimal Aponso, Federal Aviation Administration
1100-1130	<i>Usability Shortcomings in Department of Defense Funded Systems...146</i> Jerry Burpee, Intuitive Research
1130-1200	<i>Rotor Blade Position Simulation from Dynamic Maneuvers for Launched Effects...153</i> Chris Brackbill, U.S. Army Combat Capabilities Development Command, AvMC
1200-1300	Lunch
1300-1345	Day 2 Keynote: BG David C. Phillips, US Army, Program Executive Officer, Aviation
1400-1600	Pilot Roundtable: BOGSAT with Carl Ott, Alan Davis, Rodney Allison, BG David Phillips, COL Minor
1600 - 1615	Closing – President, Redstone Chapter

