

AIAA Fundamentals of V/STOL Aircraft Design Emphasis on the Joint Strike Fighter Draft Agenda

Subject	Speaker
Monday, July 12	
7:45 PAX Welcome	John O'Connor
8:00 Course Overview	Paul Bevilaqua, Lockheed-Martin
9:00 Conceptual Design of VSTOL Aircraft	Paul Bevilaqua, Lockheed-Martin
10:00 Break	
10:30 Conceptual Design of VSTOL Aircraft	Paul Bevilaqua, Lockheed-Martin
11:30 Harrier Case Study	Peter Curtis, BAE Systems
12:30 Lunch	
13:30 VSTOL Propulsion System Design	Kevin Knowles, Cranfield U
14:30 Lift / Cruise Engines	Rick Freeze, Pratt & Whitney
15:30 Break	
16:00 Slowed Rotors and Rotor Wings	Kevin Knowles, Cranfield U
17:00 Finish	
Tuesday, July 13	
8:00 Lift Engines and Lift Fans	Fred Krause, General Electric
9:00 Ejectors	Paul Bevilaqua, Lockheed-Martin
10:00 Break	
10:30 Powered Lift Aerodynamics	Rich Margason, Lockheed-Martin
11:30 Ground Effects	Kevin Knowles, Cranfield U
12:30 Lunch	
13:30 Subscale STOVL Model Testing	Peter Curtis, BAE Systems
14:30 Lift System Inlets	Peter Curtis, BAE Systems
15:30 Break	
16:00 Thrust Vectoring Nozzles	Andrew Barlow, Rolls Royce
17:00 Finish	

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Wednesday, July 14	
8:00 Stability and Control	Dave Riley, Boeing
9:00 Integrated Controls	Trey Mangan, Lockheed-Martin
10:00 Break	
10:30 Flying Qualities I	Dave Riley, Boeing
11:30 Flying Qualities II	Trey Mangan, Lockheed-Martin
12:30 Lunch	
13:30 Power Transmission	Chad Behrman, Rolls Royce
14:30 Structural Design	Carl Fink, Lockheed-Martin
15:30 Break	
16:00 STOVL Full Size Model Testing	Mark Betzina, NFAC
17:00 Finish	
Thursday, July 15	
8:00 STOVL Flight Testing	Kevin McCarthy, NAVAIR
9:00 Operational and Maintenance Issues	Graham Tomlinson, BAE Systems
10:00 Break	
10:30 VSTOL Pilot's Perspective	Graham Tomlinson, BAE Systems
11:30 Tilt Rotor Programs	Walter Sonneborn, Bell Helicopter (retired)
12:30 Lunch	
13:30 Yak 38 Case Study	Mike Hirschberg, CENTRA Technology
14:30 VSTOL Lessons Learned I	Mike Hirschberg, CENTRA Technology
15:30 Break	
16:00 VSTOL Lessons Learned II	Dave Riley, Boeing and Paul Bevilaqua, Lockheed-Martin
17:00 Finish	

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Friday, July 16	
8:00 LM Joint Strike Fighter	Paul Bevilaqua, Lockheed-Martin
9:00 VSTOL Transports	Mike Hirschberg, CENTRA Technology
10:00 Break	
10:30 Helicopter Comparison	Walter Sonneborn, Bell Helicopter (retired)
11:30 Future Applications	Mike Hirschberg, CENTRA Technology
12:30 Lunch	
13:30 Finish	