



The OSU Aviation Program: Academics and The Airport at Don Scott Field

The Ohio State University Aviation Program: Academics and The Airport at Don Scott Field & The 2004 OSU Airport Master Plan

Presentation to the Worthington City Council

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The OSU Aviation Program: Academics and The Airport at Don Scott Field

Outline

- **Academics and Aviation: How the Airport supports the OSU Aviation Program**
- **2004 Airport Master Plan status and its benefits to the Aviation Program**
- **Results of the Environmental Assessment, including overview of the Noise Study**
- **Summary and Final Comments**



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“Aviation” as a National Priority

- **“We need national leadership to develop an air transportation system that simultaneously meets our civil aviation, national defense and homeland security needs” – *The Final Report of the Commission on the Future of the United States Aerospace Industry, 2002***
- **The OSU Aviation Program supports this national priority through its teaching, research and service/outreach**
- **Currently, over 40 colleges and universities in the U.S. offer Bachelor’s degrees in Aviation-related programs, including Purdue University and the University of Illinois**



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OSU Airport Organizational Relationships

- **The OSU Aviation Program is administered by the Department of Aerospace Engineering and Aviation (AAE), which reports to the College of Engineering**
- **The Aviation Program contributes to the College's teaching, research and service/outreach missions, supports the overarching goals of the University's Academic Plan**
- **The OSU Airport reports to the Aviation Program and directly supports its missions in teaching, research and service/outreach**



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OSU Airport Priorities and Accountability

- **The Aviation Program, College, and University control the direction and destiny of the OSU Airport and its future development needs**
- **Projects benefiting the Aviation academic programs are Airport management's highest priority, while meeting the FAA's highest safety and efficiency standards**
- **All Aviation Academic Program and Airport Plan revisions are proposed, reviewed, and approved through rigorous, well-established University procedures, culminating in review and approval by the Board**



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OSU Aviation Program Demonstrates Academic Excellence

- **Viewed nationally as top-notch Aviation Program**
- **Student teams placed 5th in 2004 national student competition**
- **Five presidents of University Aviation Association from OSU, including current president, Prof. Gerald Chubb**
- **Program graduates are in high demand throughout the industry with many alumni in leadership positions**



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The Aviation Program Supports the OSU Academic Plan

- **Strongly supports land-grant mission “to address our society’s most compelling needs”**
- **Provides an intrinsically multidisciplinary and interdisciplinary academic program across three Colleges**
- **Sets a high standard for the “dissemination of knowledge in service to communities, state, nation and the world” – offers extension-like program assistance to community airports**
- **Committed to diversity – relatively high proportion of women students and instructors, including Chief Flight Instructor**



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- The Teaching Mission of the Aviation Program is:
“ to provide a baccalaureate education to persons pursuing careers in the field of aviation – and provide an academic program that will prepare a student with the foundation upon which to develop and function as a professional responsible for the design, management and operation of tomorrow’s safe and efficient national and international aviation systems.”
- Bachelor’s degrees in Aviation through Colleges of Engineering, Arts and Sciences, and Business
- Aviation Program offers concentrations in Aircraft Systems and Aviation Management
- Autumn Quarter 2003 - 225 students with approximately 110 in flight education



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Airport Enhances The Aviation Program Teaching Mission

- **Airport provides a real-world, learning laboratory for aviation students in and out of the classroom**
- **The Airport provides flexible, priority access to space and facilities close to the Columbus campus, essential to full-time students**
- **Summer internships and year-round work experiences as flight instructors, in flight operations, and in airport management prepare students for life after graduation**



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**Senior Cliff Whitfield and Flight Instructor Kristen Holby
evaluating flight performance and stability of Cessna 152**



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- The Research Mission of the Aviation Program is: *“to conduct research on real problems concerning the safe and efficient operation of aircraft in the national and international aviation systems.*
- Aviation Program Research - \$4.1M since 1992 to support more than 30 funded research projects from FAA, NASA, DoD, aircraft manufacturers in areas including avionics, evaluation of flight system displays, pilot risk assessment, aviation psychology, human factors, etc. Priority area for future growth.
- The OSU Airport provides laboratories and space for many research programs, e.g., flight simulation systems, conventional and experimental aircraft, etc.



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The Aviation Program Service Mission

- *“Provide aviation professionals who become leaders in the aviation in Ohio and across the nation and the world”*
- *“Serve the Community, State and Nation, through faculty participation in matters concerning aviation”*
- *“Serve the Department, University, Community, State and Nation through the management and operation of the OSU Airport”*
- *“Serve the community, by providing flight education services”*



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Aviation Program Service/Outreach Enhanced by the OSU Airport includes:

- **Flight Education clinics to the general public**
- **Support of Experimental Aircraft Association Young Eagles Program, Explorer Post**
- **Consultants to aviation industry and facilities across Ohio and nation**
- **Host of National Conferences on Safety and Flight Education**



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**Scott van Ooyer, BS AVN, ENG 1987, Captain, Southwest Airlines, and
Matt Tallarico, BS AVN, ENG 1990, First Officer, Southwest Airlines**



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Sean Menke – COO of Frontier Airlines, ASC Aviation Graduate, 1991



The OSU Aviation Program: Academics and The Airport at Don Scott Field



Some of the more than 130 OSU Aviation Alumni at NetJets



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Airport Economic Impact on Community

2002 Economic Impact study based on FAA guidelines indicated \$4.3M in direct impacts, \$37.5M in indirect impacts, and \$31.1M in induced economic impacts



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Airport Financially Supports the Aviation Program

The Airport provides cash and in-kind resources of nearly \$650,000 to augment the Aviation Program's academic and research efforts, thereby improving program excellence to maintain a position of prominence among universities with aviation programs