



Ohio University Avionics Engineering Center

Overview of Research Areas

Joint University Program

Quarterly Review – Oct. 26-27, 2000



History

- **Founded in 1963**
- **Research in all areas of electronic navigation: ILS, MLS, VOR, DME, Loran-C, Tacan, GPS, INS; hybrid and integrated systems**
- **Idea → Prototype → Flight Test**
- **Propagation modeling: siting, critical areas**



Flight Test Aircraft

- **Douglas DC-3**
- **Piper PA-32 Saratoga**
- **Cessna T-210 Centurion**
- **AeroVodochody L-29 Delfin**
- **Raytheon/Beech C-90 King Air**
- **Two Bonanzas (private)**



Current Research Topics

- **GPS: LAAS, WAAS, GPS/INS integration, next generation receiver design, A-SMGCS, GPS-based synthetic vision systems**
- **RFI: ILS and GPS; prediction (modeling); source identification (flying lab); bench testing; VDL interoperability with VOR, Comm**
- **ILS: siting support, modeling, anomaly resolution**
- **Radar: modeling and siting support**
- **Communications: Controller-Pilot Datalink, LAAS VDB, ADS-B, W_x**







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