



## Third Annual Workshop

April 9-10, 2009

Holiday Inn  
2800 Presidential Dr.  
Fairborn, OH 45324  
(937) 426-7800, (800) 465-4329

### Workshop Program - Thursday Morning, April 9

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8:00	Workshop Registration
8:30	Welcome, introductions and workshop overview <i>Frank van Graas, COUNT Director</i>
9:00	SPIN Lab Research Overview, <i>Dorota Brzezinska</i> Investigations with the SIFT algorithm for Feature Extraction, <i>J. Nikki Markiel</i> Terrain-referenced navigation: combining HSI and LiDAR, <i>Jake Oh</i> Evaluation of spectral methods of code multipath modeling, <i>Karla Edwards</i> Navigation support for Compressive Sampling in airborne LiDAR systems, <i>Charles Toth</i>
10:15	<i>Break</i>
10:30	Overview of Navigation Research at Miami University, <i>Jade Morton</i> Comparison of IGRF Model-Generated Magnetic Field and Satellite Measurements in the Ionosphere, <i>Nick Matteo</i> Single Frequency Ionosphere Correction and Measurement Algorithm Performance, <i>Matt Cosgrove</i> Implementation of a Real Time Long-Baseline DGPS System, <i>Dan Charney</i> UWB -SAR Feature Extraction Algorithm, <i>Kyle Kauffman</i>
11:45	<i>Lunch</i>

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## Workshop Program - Thursday Afternoon, April 9

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13:00	Presentation by Honeywell, Inc.
13:45	<i>Break</i>
14:00	Presentation by Northrop Grumman Corporation
14:45	<i>Break</i>
15:00	Presentation by The MITRE Corporation
15:45	<i>Break</i>
16:00	Overview of Research Activities at the Ohio University Avionics Engineering Center, <i>Maarten Uijt de Haag</i> Flash Ladar/Lidar/IMU Integration, <i>Evan Dill</i> Tight Optical Integration, <i>Sumit Bhattacharya</i> GPS Satellite Clock and Orbit Error Distributions and Outlier Characterization, <i>Curtis Cohenour</i> Tropospheric Propagation Delay Modeling using Weather Radar, <i>Priyanka Muvvala</i>
17:15	<i>Break</i>
18:00	<i>COUNT-Hosted Banquet</i>

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## Workshop Program - Friday Morning, April 10

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8:30	<i>Coffee</i>
9:00	ANT Center Overview, <i>Dr. John Raquet</i> Cooperative UAV Research, <i>Maj Jonathan Taylor</i> Vision-based Navigation Research Overview, <i>Lt Col Mike Veth</i> Development of a Laser Distancing Sensor for Image-Inertial Navigation, <i>Jared Yates</i> Use of Coded Apertures for Image-Inertial Navigation, <i>Capt Jamie Morrison</i> Image-Inertial Navigation Using Satellite Imagery, <i>Fred Webber</i> Development of Integrity Algorithms for Image-Based Navigation Algorithms, <i>Capt Craig Larson</i> Indoor Navigation Using Magnetic Field Variation, <i>John Raquet</i>
10:15	<i>Break</i>
10:30	Overview of Navigation Related Research at OSU-ESL, <i>Inder J. Gupta</i> Optimum Adaptive Filtering for GNSS Antenna Arrays, <i>Andrew O'Brien</i> Calibration of GNSS Adaptive Antennas, <i>Chris Church</i> Inclusion of Rotor Blade Modulation in Computer / Wavefront Simulators, <i>Khadir Griffith</i> AJ Antennas for Handheld GPS Receivers, <i>Andrew Svendsen</i>
11:45	Discussions and Concluding Remarks

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