



# Fourth Annual Workshop

April 20-21, 2010

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

## Workshop Program - Tuesday Morning, April 20

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8:00	Workshop Registration
8:30	Welcome, introductions and workshop overview <i>Frank van Graas, COUNT Director</i>
9:00	Overview of Miami University 2009-2010 Navigation Related Research, <i>Jade Morton</i> Higher Order Ionosphere Error Geographical Variations, <i>Nick Matteo</i> GPS DORN---GPS Data Over Remote Networks, <i>Dan Charney</i> A Novel MLE for GPS and Multipath Signal AOA, <i>Matthew Brenneman</i> Acquisition and Tracking of Multiple GNSS Signals using USRP2, <i>Senlin Peng</i>
10:15	<i>Break</i>
10:30	Overview of Navigation Related Research at OSU-ESL, <i>Inder "Jiti" Gupta</i> An AJ antenna for Handheld GPS Receivers, <i>Andrew Svendsen</i> DOA Estimation with GPS AJ antennas, <i>Kyle Hayhurst</i> On-the-fly Calibration of GNSS antennas, <i>Andrew O'Brien</i> Efficient calculation of rotor blade modulation in dual-rotor platforms, <i>Khadir Griffith</i>
11:45	<i>Lunch</i>

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Point of Contact: Prof. Michael J. Veth, Air Force Institute of Technology, 2950 Hobson Way, Bldg 640,  
Wright Patterson AFB, Ohio, 45433, Phone: (937) 255-3636 x4541, Michael.Veth@afit.edu

## Workshop Program – Tuesday Afternoon, April 20

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13:00	Presentation by Honeywell, Inc.
13:30	Presentation by Northrop Grumman Corporation
14:00	<i>Break</i>
14:15	Presentation by The MITRE Corporation
14:45	Presentation by Rockwell Collins
15:15	<i>Break</i>
15:45	Overview of Research Activities at The Ohio State University Satellite Positioning and Inertial Navigation (SPIN) Laboratory, <i>Dorota A. Grejner-Brzezinska</i> Impact of Periodic Code Multipath Estimation on Point Positioning Solutions, <i>Karla Edwards</i> Cooperative Navigation for Ground Vehicles in GPS-Challenged Environments, <i>Xiankun Wang</i> Terrain Referenced Navigation: Exploiting High-Resolution Stereo Satellite Imagery, <i>Jaehong Oh</i>
17:00	<i>Break</i>
18:00	<i>COUNT-Hosted Banquet</i>

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## Workshop Program – Wednesday Morning, April 21

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8:00	<i>Coffee</i>
8:30	Overview of Research Activities at the Ohio University Avionics Engineering Center, <i>Wouter Pelgrum</i> Aircraft Camera Image Georegistration, <i>Dustin Bates</i> Ionospheric Gradient Monitor Algorithms, <i>Chen Chen</i> GPS Anomalous Event Monitoring, <i>Mathew Cosgrove</i> Navigation using Integrated 2D and 3D Imaging Sensors, <i>Evan Dill</i>
9:45	<i>Break</i>
10:00	ANT Center Overview, <i>Prof. Mike Veth</i> Predictive Rendering for Precision Targeting, <i>Lt Col Mike Veth</i> Predictive Hough Transformation for Image Aided Navigation in Structured Environments, <i>Capt Jeff Borkowski</i> Optimal Control Algorithms for Non-cooperative Passive Rendezvous, <i>Maj Steve Ross</i> Fusion of Inertial Sensors with Imaging Radar for Navigation, <i>Kyle Kauffman</i>
11:15	Discussions and Concluding Remarks

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