



## Geomatics Engineering NEWS RELEASE

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### Researchers Win 10 Awards at the ION GNSS 2009 Conference

The GNSS 2009 conference, held in Savannah, GA, on 22-25 September, was another successful annual ION GNSS conference for the Department of Geomatics Engineering researchers. Ten awards were received, including seven by PLAN Group researchers. The following six Student Sponsorship Awards were received:

Fatemeh Ghafoori (Supervised by Professor S. Skone) ***Correcting the Negative Values of the Retrieved Ionospheric Electron Density Profiles Using the NNLS Algorithm***

Feng Xu (Supervised by Professor Y. Gao) ***A Complexity Reduced Frequency Domain Receiver for Galileo and GPS L1 Signals***

Ahmed Adel El-Ghazouly (Supervised by Professor N. El-Sheimy) ***The Aid of Wavelets Correlator in Carrier Phase Multipath Reduction and Motion Detection***

Jared Bancroft (Supervised by Professors G. Lachapelle and M.E. Cannon), ***Multiple IMU Integration for Vehicular Navigation***

Aiden Morrison (Supervised by Professors G. Lachapelle and M.E. Cannon), ***Accurate Millisecond Level Oscillator Phase Noise Estimation for Standalone GNSS***

Kannan Muthuraman (Supervised by Professors G. Lachapelle and R. Klukas), ***Theoretical Bounds & Reliable & C/No Estimation for***

## ***Modernized GPS Signals***

Messrs Bancroft, Morrison and Muthuraman also won Best Session Presentation Awards for their contributions. Mr. Morrison's paper was selected for publication in **GPS World**. A 4th Best Session Presentation Award was also received by Dr. Cillian O'Driscoll, Senior Research Engineer in the PLAN Group, for the following paper:

Mohammadreza Zaheri, Ali Broumandan, Cillian O'Driscoll, Gérard Lachapelle, ***Enhanced GNSS Indoor Signal Detectability Using Polarization Diversity***

GNSS 2009 is the major Global Navigation Satellite System conference of the year and attracted 1,500 participants. The University of Calgary had a strong presence with eight faculty members from the Geomatics and Electrical & Computer Engineering departments and some 30 graduate students. The Technical Program Chair was Professor Naser El-Sheimy.

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<http://geomatics.ucalgary.ca>