## Geodesy and Geomatics Engineering Graduate Seminar and Student Technical Conference

Dineen Auditorium-C13 Wednesday March 25<sup>th</sup>, 2009

09:20 Opening Remarks

Session 1 Geographic Engineering and Ocean Mapping

- Chair Landon Urquhart
- 09:25 The Effect of Sound Velocity Profile Acquisition Rate on Echosounder Accuracy Lee Chaulk
- 09:40 Marine Geophysical Data Collection and International Cooperation in the Arctic Region with respect to UNCLOS *Arthur Cooke*
- 09:55 Run Aground: Designing a System for the Inspection of Positions of Floating Navigational Aids *Kevin Levy*
- 10:10 Coffee Break
- Session 2 Land Management
- Chair: Nyaladzani Nkhwanana
- 10:45What a Land Surveyor Should Know about Environmental ManagementBrandon Crouse

Chair	Krista Amolins
Session 3	Surveying
12:15	Lunch
	Bradley G. Middlemiss
12:00	An Analysis of Canada's Northern Sovereignty
11.75	Aloysius Kam
11:45	Comparison of Computed Flood Maps with 2008 Flood Imagery.
	Harsil Jani
	Data Used for Flood Mapping of the Lower Saint John River.
11:30	The Determination of Horizontal and Vertical Accuracies of LIDAR
	Randell Hollett
11:15	Applying Seabed Ground Overlays in Google Maps
	George P. Wilcox
	Existing or Proposed Projects.
11:00	Marine Cadastre: Evaluation of Current Status and

- 1:15
   Testing Electronic Tacheometers [Total Stations]

   James Dorland
- 01:30 Governing the Use of GPS in Cadastral Surveying in Western Canada Marc Steeves
- 01:45 Achieving High Precision Results using a Robotoic Total Station with Automatic Target Recognition *Ryan Schuler*

02:00 Investigating the Tellurometer MA200 High Precision Electro-Optical Distance Measurement System *Robert W. Love* 

02:15 Coffee Break

Session 4 GPS/Geodesy

## Chair James Mtamakaya

- 02:30 Improving the Methods of Deformation Monitoring for Small Surveying Firms. *Tyson Altenhoff*
- 02:45 Deformation Monitoring in Open Pit Mining Using Geomatics Technology Dikopo Rantolo
- 03:00 Sea Level Change in the South Pacific Region Adam Stephen
- 03:15 Closing Remarks

## Dineen Auditorium-C13 Thursday March 26<sup>th</sup>, 2009

	Graduate students
11:30	Opening Remarks
Chair:	James Mtamakaya
11:40	Finding procedures for assessing the quality
	of external bathymetric data
	Rui Pinto da Silva
12:00	Application of Spherical Harmonics for Modelling Horizontal
	Tropospheric Gradients
	Landon Urquhart
12:20	Assessing Alternative Technologies for Use of Volunteered Geographic
	Information in Authoritative Databases
	Botshelo Sabone
12:40-01:35	Lunch Break
Chair:	Nyaladzani Nkhwanana
01:35	Mast Tracking Capability of EM3002D Multibeam using Water
	Column Imaging
	Auke van der Werf
01:55	Towards Building a Geo-Service Broker.
	Kealeboga K. Moreri

The Impact of Ocean Observation Systems in Marine research and
Information Management
Titus Tienaah
Using a Web-Based Geographic Information System as a Social
Networking Tool
Krista Amolins
GPS Positioning Enhancement Based on Different Weighting Scheme
to Solve an I11-conditioned Case in Parameter Estimation Process.
Yong-Won Ahn
Short Break
CIG Paper Competition
James Mtamakaya
An Evaluation of the Tandem-X Mission Height Requirements.
Evan Green
Defining the Limits of the Continental Shelf under the United Nations
Convention on the Law of the Sea
Timothy Crowell
Capabilities, Limitations and Achievable Accuracies of Terrestrial 3D
laser Scanning
Ewan Scott
Testing Horizontal and Vertical Accuracies of the Nova
Scotia 1:10 000 Digital Topographic Mapping
Jody V. Isenor

04:25 Options for Land Administration Chosen by Selected First Nations in British Columbia. *Roberta E. Holtner* 

04:40 Graduate Awards Presentation

- 04:55 CIG Paper Competition Award Presentation
- 05:10 Reception (room C-122)