2015 UNB ENGINEERING DESIGN SYMPOSIUM



DEPARTMENT OF GEODESY AND GEOMATICS

April 8, 2015

Fredericton Convention Centre

TIME	SESSION ENGINEERING DESIGN PROJECT	AUTHOR
8:20	Opening Remarks	
8:30	Session I	
	Establishing the UNB Control Network: Comparison GNSS with terrestrial techniques	Matthew Cameron
	Investigating UNB's GAPS's processing ability using data sets influence by common environmental challenges and conditions	Stefan David Dubay
	The Practicality of Trigonometric Heighting: Comparing Trigonometric Heighting, Geometric Levelling, and GNSS Heighting	Gregory Nicholas Rodger
	Assessing accuracy of low-cost low altitude UAV Photogrammetry	Chan Byung Choi
	Aerial mapping techniques and technologies: A cost benefit analysis	Colin Graham McLean
	Predicting urban growth in Fredericton using the SLEUTH Model	Charles-Olivier Cyr
10:00	Break	
10:15	Session II	
	Using PPP-GPS to estimate tidal motions in the Artic and comparison to a tidal model	Cally Ann Keddy
	GNSS derived orthometric heights for water level monitoring and geoid analysis	Matthew Blair Williams
	Marine Cadastre: Lessons from US Gulf of Mexico for Canada	Eric John Root
	Evaluating Alberta's systemic handling of private minerals rights	Richard Eric Larsen
	New Brunswick Condominiums: Recommendations for improving governance by implementing educational requirements	Joseph Alan Doiron
	Optimizing the Campus Floor Plan: An interactive mapping application for E-Level of Head Hall, University of New Brunswick	Adam Paine
12:15	Lunch	
13:15	Session III	
	Mapping UNB walking paths to compare elevation data sources	Mark Andrew Mayne
	Reporting Motor Vehicle Accidents with a GNSS based Application	Craig David Murray
	Modelling urban traffic using the Neo4j graph database	Jacob A. Burton Wood
	A spatial analysis of the City of Fredericton's bus stop locations	John Alexander Mason
	Discovering mobility behaviour using real trajectory data with M-Atlas	Mitchell Kyle Lyn Allen
	Mapping the extent and intensity of a natural disaster using social media	Nathan Edward Hughes
14:45	Break	
15:00	Session IV: Canadian Institute of Geomatics Competition	
	UNB Campus Control Network: Designing a deformation monitoring campaign	Adam Michel Thimot
	DIM: Developing a mobile least squares adjustment application for Android	Michael Terence Bremner
	Improving collision investigation and reconstruction capabilities with Trimble TX5 Laser Scanner	Alice Jane Cunningham
	The use of hyperspectral images and laser scan data for the improvement of mine models in Canada's oil sands	Lukas Alexander Fraser
	Analysis of GSM data in conjunction with Twitter data for understanding social behaviour in Senegal	Tianyu Liu
	The effect of ambulatory islands on international water boundaries	James Arthur Batty
17:00	Awards and Closing Remarks	

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