



**NOTICE OF
UNIVERSITY ORAL**
GEODESY AND GEOMATICS ENGINEERING

Master of Science in Engineering

Heather McGrath

Tuesday, December 10, 2013 @ 10:00 am

Head Hall – Room E-11

Board of Examiners: Supervisor: Dr. Emmanuel Stefanakis, Geodesy and Geomatics Eng.
Examining Board: Dr. Sue Nichols, Geodesy and Geomatics Eng.
Dr. Bonnie Huskins, St. Thomas University

Chair: To Be Announced

**HISTORICAL MAPS OF GRAND LAKE MEADOWS
ABSTRACT**

Historical maps archive information and display it in a way other resources cannot. Reviewing and analyzing historical maps from the 1700s to present day will allow for a comparison of past and present use of Grand Lake Meadows - the largest wetland in New Brunswick. This analysis will lead to a better understanding of the historic significance and evolution of the area. These historical maps are stored on microfilm and microfiche at the Provincial Archives of New Brunswick. They were scanned, georeferenced, and overlaid on present day maps (Google, Service New Brunswick). The georeferenced images were then made available to the public via a dynamic web-based map mashup application using OpenLayers and Web Map Services. This web application also contains interactive and educational content implemented through Hypertext Preprocessor, JavaScript, and Scalable Vector Graphics. The aim of the website is to promote education and awareness of Grand Lake Meadows.

Faculty Members and Graduate Students are invited to attend this presentation.