

Geodesy and Geomatics Engineering Semi-Annual Student Technical Conference

Dineen Auditorium – C13
Wednesday, March 24, and Thursday, March 25, 2004

Wednesday, March 24

- 1330 Opening Remarks
Session 1 Hydrography and Ocean Mapping
Chair: John Flemming
- 1340 Comparison of Single Beam Vertical Incidence Sediment Classification and Oblique Incidence Backscatter: Caraquet Shoal Case Study
Beth-Anne Martin
- 1355 A Proposed Mine Warfare Pilot
Andrew Muir
- 1415 A Proposal to Evaluate the CARIS HPD in the Production of Paper Charts, ENC's and AMLs
Leonel Pereira Manteigas
- 1435 Coffee Break**
- Session 2 Land Administration**
Chair: Meredith Hutchison
- 1450 An Evaluation of the Current State of Aquaculture Surveys in Prince Edward Island
Jill Cheverie
- 1505 Designing a Statute Retrieval Framework for Spatial Queries: A Case Study of New Brunswick Marine Space
Brian BurrIDGE
- 1520 The Design of a Data Requirements Model to Support the Coastal Areas Protection Policy in New Brunswick
Bronwyn Cox
- 1535 Investigating the Tools of ArcGIS Survey Analyst Within the Industry of Spatial Information
Matt Berrigan
- 1550 Coffee Break**
- Session 3 Geographic Information Systems and Remote Sensing**
Chair: Gang Hong
- 1605 Modelling the Retreat of the Scarborough Bluffs with GIS
Melissa Condie
- 1620 Mapping Storm-Surge Flood Risk Using Airborne LIDAR
Steven Dickie
- 1640 Design of an Unmanned Aerial Vehicle for Watershed Analysis
Rosalind Bobbitt

Thursday, March 25

Session 4 Global Positioning Systems

Chair: Mustafa Berber

- 1030 Analysis of Automated Online GPS Processing Services
Jamie Leslie
- 1045 Dealing with Multipath in the Context of the Princess of Acadia Project
Mohammed Al-Shahri
- 1105 A GPS Velocity and Accelerometer Sensor: How Accurate Can It Be? - A
First Look
Luis Serrano
- 1125 GPS Data Processing with DIPOP-FACE V1.1
Mazhar Rafiq

1145 Lunch Break

Session 5 Global Positioning Systems and Geodesy

Chair: Luis Serrano

- 1245 Determination and Mapping of Usable GPS Satellite Signals in the UNB
Woodlot
Keith Jamieson
- 1300 A Systematic Analysis on the Accuracies of IGS Satellite Orbits
Rob Molaski
- 1315 An Introduction to Stokes-Helmert Method for Precise Geoid Determination
Huaining Yang
- 1335 Spatial Analysis and Treatment of Tide Gauge Records Using GIS
Azadeh Koozare

1355 Coffee Break

Session 6 Engineering and Mining Surveys

Chair: Jason Bond

- 1410 Development of Graphical Display Software for Finite Element Analysis
Chris Gairns
- 1425 Determination of Surface Subsidence Due to Fluid Withdrawal by
Combining the Influence Function and the Nucleus of Strain Approaches
Eulalio Ortiz
- 1445 Integrated Analysis of Ground Subsidence at PCS Potash Mine
Matthew Chandler
- 1500 Cylindrical Surface Modeling with Reflectorless EDM Total Station for
Deformation Surveys
Ron MacMaster
- 1515 Coffee Break**

Session 7 CIG Undergraduate Student Paper Competition

Chair: Jonathan Beaudoin

- 1530 The Study of Total Propagated Error in Hydrographic Surveys
Corey M. Collins
- 1545 Comparison of GPS and RTS Performance Within an Open Pit Environment
John Broderick
- 1600 Comparison of PCI Geomatica's Pixel-Based Image Classification
Techniques and eCognition's Object-Oriented Image Classification
Marc Cormier
- 1615 Assessing the Feasibility of Ultra-Short Baseline Acoustic Positioning
Techniques for Spoolpiece Metrology
Michelle Weirathmueller
- 1630 Geoid Modeling Using a Combination of Geometrically Determined and
WGS84 EGM96 Geoidal Undulation Values
Paul Andrew Burbidge
- 1645 Presentation of Awards and Closing Remarks**
- 1700 Reception**