

Draft Agenda Integrating New Technology with Forest Operations

Logistics

Dates: Monday, March 20th and Tuesday, March 21st, 2006

Times: 8:00 a.m. to 9:00 p.m. (Monday), 8:30 a.m. to 1:00 p.m. (Tuesday)

Location and Venue: Canadian Ecology Centre

Facilitators: John Pineau and Richard Worsfold

Registration:

To register for this event, contact Hospitality Services at the Canadian Ecology Centre (705-744-1715 x 0). The Workshop is funded by ETech, a division of Ontario Centres of Excellence and is **FREE** to all participants, **including meals**.

Accommodations:

Registrants are responsible for their own accommodations. A block of cabins has been set aside at the Canadian Ecology Centre for Sunday and Monday nights; each cabin can sleep up to 3 people. For bookings please call (705) 744-1715 x 0.

Meals:

Meals include lunch and dinner on Monday, and breakfast and lunch on Tuesday. Please identify any special dietary requirements. Coffee, juice, pop and snacks will also be provided.

Continuing Education:

This workshop will be assessed for **OFPA and CIF** Continuing Education Credits.

For additional information:

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Target Audience:

Natural Resources/Forestry workers, technicians, professionals, managers, consultants/contractors, scientists and researchers.

Desired Outcome:

A rigorous exploration of new and relevant technologies/tools that can be used to improve forest management and forestry operations.

Objectives:

- Present and demonstrate specific leading edge technology being used in forest inventory, forestry data collection, operations, and planning
- Allow an opportunity for all participants for direct and hands-on trial and basic training in various new technologies
- Discuss/debate the application(s) of specific new technologies, and their ultimate practicality and economics

Draft Agenda**Monday March 20, 2006**

- 8:00 a.m.** Registration and Coffee
- 8:30 a.m.** Welcome, Introductions, Housekeeping
John Pineau and Richard Worsfold
- 8:45 a.m.** ETech Presentation Programs, Projects and Opportunities
Richard Worsfold
- 9:15 a.m.** Tembec Innovations and Initiatives FIMS, Inventory Project
Ken Durst
- 9:45 a.m.** Coffee Break
- 10:15 a.m.** Acquiring and testing Multi-band ortho-photography and LiDAR for production of enhanced forest inventories in the Great Lakes St. Lawrence Forest
Murray Woods
- 10:45 a.m.** ETech, Trent University, FERIC, Ducks Unlimited Canada Project
Dr. Tarmo Remmel
- 11:15 p.m.** FERIC Skid Trail Project
Mark Pardington
- 11:45 a.m.** Summary of morning activities and brief on afternoon activities
John Pineau
- 12:00 p.m.** Lunch (provided)

- 1:00 p.m.** Activities
- GPS Data Collection – *Geneq Rep with Paul Courville and John Wright*
 - Laser Vertex – *Nancy Young*
- 3:00 p.m.** Coffee, Refreshments, Discussion and Networking
- 3:30 p.m.** Patchworks Spatial Model – *Tom Moore*
- 4:00 p.m.** Deriving DEMs from DSMs with the Vexcel Camera
John Knowles
- 4:30 p.m.** CASI
Douglas Davidson (to be confirmed)
- 5:00 p.m.** Down Time
- 5:30 p.m.** Dinner
- 6:30 p.m.** Cash Bar (Ice Breaker & Networking)
- 7:00 p.m.** Evening Vendor Session; Hands-on learning opportunities
- MicroDEM – *Ken Durst*
 - TAUDM – *Dr. David Tarboton student (to be confirmed)*
 - LiDAR Analyst – *VLS Rep. or Paul Courville (to be confirmed)*
 - ESRI Software (ArcScene, 3D Analyst, etc.) – *Wayne Higgins (to be determined)*
 - MNR High Tech Group - *Mark Clarkson (to be confirmed)*
 - FERIC Software – *Mark Pardington*
 - CASI – *Douglas Davidson (to be confirmed)*
 - Vexcel Camera – *Todd Lewis (to be confirmed)*
 - First Base Solutions – *John Knowles*
- 9:00 p.m.** Adjourn

Tuesday March 21, 2006

- 7:30 a.m.** Breakfast (Provided)
- 8:30 a.m.** Satellite Formation Flying Technology for Low-Cost, High Resolution Remote Sensing in Support of Forestry Operations
Robert Zee, University of Toronto (to be confirmed)
- 9:00 a.m.** A Low-cost Earth Observation Mission for Forestry Management using Microsatellites
Tarik Kaya, Carleton University (to be confirmed)
- 9:30 a.m.** Automatic Mapping of Tree Species and Structures using Multi-angle Digital Aerial Images.
Baoxin Hu, York University (to be confirmed)
- 10:00 a.m.** Development of a Remotely-deployable In-situ Sensing Systems for Acquisition of Real-time Environmental Data
Paul Sibley, University of Guelph (to be confirmed)
- 10:30 a.m.** Break
- 11:00 a.m.** The Use of LiDAR in Multi-Cohort Classification
Ben Kutner PhD Candidate, University of Toronto
- 11:30 a.m.** "Application of Airborne and Ground-based Lidar Data for Forest Inventory and Monitoring"
Paul Treitz, Queen's University
- 12:00 p.m.** UAV Research
Paul Straznicky, Carleton University (to be confirmed)
- 12:30 p.m.** Lunch (provided)
- 1:30 p.m.** Group Discussion for Opportunities and Priority Setting. What could be implemented on a larger scale immediately? What do we need to investigate/try? Where are their opportunities for partnerships/projects?
Facilitator: John Pineau
- 2:15 p.m.** Wrap-up and Evaluations
- 2:30 p.m.** Departure

Workshop End Product:

The workshop material will be made available on the Forestry Research Partnership website www.forestresearch.ca.