

# 5<sup>th</sup> Southern Forestry and Natural Resources GIS Conference

Asheville, NC

## *Tentative Schedule*

**June 13, 2006**

### General Session

8:30 - 9:00 Introductions

9:00 - 10:00 Keynote Speaker: John Scrivani, Virginia Department of Forestry

*The Map is the Business: Enterprise GIS for a State Forestry Agency*

10:00 - 10:30 Break

### Concurrent Sessions

*10:30 - 12:00*

#### Session 1 Global Positioning Systems

10:30 - 11:00 *Accuracy of Various GPS Antennas under Forested Conditions*, D. Yawn and B. Holley

11:00 - 11:30 *Assessing GPS Accuracies in a Southern Hardwood Forest*, S.D. Danskin, P. Bettinger, and T.R. Jordan

11:30 - 12:00 *Increased Precision in Forest Inventory Parameters Based on Canopy Sampling*, K. Livengood

#### Session 2 Spatial Analysis

10:30 - 11:00 *Spatial Analysis of Potential Impacts of Local Forestry Ordinances*, D. Daversa, S. Prisley, and M. Mortimer

11:00 - 11:30 *A Spatial Analysis of 20th Century East Texas Sawmills: From Trams to Electrons*, D.L. McDonald and D.L. Kulhavy

11:30 - 12:00 *Time Series Spatial Analysis of the Change in Land Cover and Human Well-being in the Black-belt Counties of Alabama*, B. Gyawali, Rori Fraser, and J. Schelhas

12:00 - 1:30 Lunch

1:30 - 3:00

### Session 1 Remote Sensing

- 1:30 - 2:00 *Estimation of Southern Pine and Hardwood Forest Canopy Structure Using Small Footprint Lidar*, C. Listopad, J. Drake, R. Masters, and J. Noble
- 2:00 - 2:30 *Using Geo-Spatial Methods for Derivation of Fine-Resolution Forest Inventory in Georgia from Ground Inventory Data and Landsat Imagery*, Q. Meng, C.J. Cieszewski, and R. Lowe
- 2:30 - 3:00 *Above Ground Biomass Estimation in Forested Land Using Landsat Enhanced Thematic Mapper Plus Image with Supervised Regression Analysis*, R. Hayashi and P. Bettinger

### Session 2 Aquatics

- 1:30 - 2:00 *Geospatial Modeling of Forest Road Networks and Their Impacts on Stream Macroinvertebrate Communities*, A.M. Bernard, S.P. Prisley, C.D. Heatwole, and W.M. Aust
- 2:00 - 2:30 *The Personal Geodatabase as a BMP for Stormwater Management*, C.T. Smith
- 2:30 - 3:00 *Adding Value to Historical Research - Developing a GIS Database of Aquatic Species*, L. Teeter, M. Polyakov, and S. Glover

3:00 - 3:30 Break

3:30 - 5:00

### Session 1 GIS / Inventory

- 3:30 - 4:00 *Temporal Analysis of Landsat Satellite Imagery for Land Cover Change Tracking in Southeastern Georgia*, R. Lowe and C. Cieszewski
- 4:00 - 4:30 *A GIS Sampling Assistant Program for Forest Inventory Point/Plot Schemes*, D.J. Lipscomb, D.J. Nowak, J.T. Walton, and C. Post
- 4:30 - 5:00 *Analysis Of Fiber Supply Sustainability In Different Procurement Areas In Georgia*, C.J. Cieszewski, R. Lowe, and S. Liu

### Session 2 GIS systems

- 3:30 - 4:00 *The Google API - A Forestry GIS Data Distribution Platform*, C. Neese
- 4:00 - 4:30 *Status of GIS Databases and Analyses for the Chattahoochee National Forest*, E. Mavity
- 4:30 - 5:00 *Forest Land Classification Using Isoclustering and Rule-based Approaches: An Exploratory Analysis*, Y. Wang, S. Parajuli, C. Schweitzer, G. Smally, W. Tedasse, X. Chen, and D. Lemke

**June 14, 2006**

Concurrent Sessions

8:30 - 10:00

Session 1 Natural disturbance modeling

- 8:30 - 9:00 *Managing Hurricane Impacts on Wild Fire Fuel Loads in Southern US Forests*, J. Moore Myers, S. McNulty, and S. Strickland
- 9:00 - 9:30 *Mapping Forest Hurricane Damage Using Automated Feature Extraction*, J. Shedd, H. Devine, and D. Hulbert
- 9:30 - 10:00 *Evaluation of Ikonos Satellite Imagery for Detecting and Mapping Ice-Storm Damage to Oak Forests in Eastern Kentucky*, W.H. McNab, T. Roof, J.F. Lewis, and D.L. Loftis

Session 2 Wildlife habitat modeling

- 8:30 - 9:00 *GIS Tool for Evaluating the Impact of Proposed Cuts on Red-cockaded Woodpecker Habitat*, D.J. Lipscomb and T.M. Williams
- 9:00 - 9:30 *Evaluating Population-Habitat Relationships of Forest Breeding Birds at Multiple Scales Using Forest Inventory and Analysis Data*, T.M. Fearer, S.P. Prisley, D.F. Stauffer, and P.D. Keyser
- 9:30 - 10:00 *Applications of GIS for Management at the Merritt Island National Wildlife Refuge*, F. Adrian and C. Ehrhardt

10:30 - 11:30

Session 1 Broad scale analyses

- 10:30 - 11:00 *Comparison of Spatial Distributions of Pollen and Vegetation in North America Using Geographic Information Systems*, P.P. Siska, I-K. Hung, and M.V. Bryant
- 11:00 - 11:30 *An Overview of Methodologies for Mapping Ecological Systems Vegetation Classes for the Piedmont Region of the Southeastern US*, J. Lee, K. Samples, and L. Kramer

Session 2 Geospatial service system

- 10:30 - 11:00 *The Columbia Regional Geospatial Service Center System: A Model for Rural Geospatial Support for the Nation*, J.C. Kroll, D. McDonald, and P.R. Blackwell
- 11:00 - 11:30 *LANDFIRE: What Is It; Where Is It; Is It Different; How Might It Be Used?*, J. Smith

11:30 - 12:00

Closing remarks, door prizes

