

Virginia Tech GIS & Remote Sensing 2014 Research Symposium



April 4, 2014 | 1:00 - 5:30

Newman Library Multipurpose Room, First Floor

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| 11:00-12:15 | Poster presenters set up displays on the poster boards in front of the Multipurpose room. |
| 1:00-1:10 | WELCOME AND INTRODUCTIONS John McGee, Val Thomas, and Randy Wynne |
| 1:10-1:20 | INTRODUCTORY REMARKS Julie Speer, Associate Dean for Research and Informatics, University Libraries |
| 1:20-1:50 | Keynote Speaker, Dr. Richard Bevilacqua Superintendent, Remote Sensing Division, Naval Research Laboratory |
| 1:50-2:10 | A Simple Routine to Model Snow Depth and Snowmelt in Complex Terrains Dr. Zachary Easton, Assistant Professor and Extension Specialist, Biological Systems Engineering |
| 2:10-2:30 | The Spatial Turn and GIS in U.S. Urban History: The Case of Redlining Dr. LaDale Winling, Assistant Professor, Department of History |
| 2:30-2:50 | Converging Surface Water Distributions in US Cities and Agriculture Dr. Meredith Steele, Assistant Professor, Crop & Soil Environmental Sciences |
| 2:50-3:10 | Airborne LiDAR Analysis for Forested Environments in the South-east of the USA Dr. Matthew Sumnall, Postdoctoral Associate, Forest Resources and Environmental Conservation |
| 3:10-3:30 | Unmanned Aircraft Applications in Remote Sensing and Sampling Dr. Kevin Kohersberger, Associate Professor, Mechanical Engineering |
| 3:30-4:00 | Creating a Digital Surface Model of the Commonwealth of Virginia Keynote Speaker, Dr. John Scrivani Geospatial Projects Manager, Virginia Geographic Information Network (VGIN) |
| 4:00 – 4:50 | Poster Session and Social |
| 4:50-5:30 | Poster Awards, Closing Remarks, and Social |

Poster Presentations

Undergraduate Student Competition

1. Sarah Rouzer and Matthew Vaughan. *Mapping Congress.*
2. Katherine Zajic. *Wildland-Urban Interface and Lyme Prevalence in Virginia and North Carolina.*
3. Elliot Shiben, Sierra Sult, and Bryan Allen. *Elevation's Effect on Winter Weather.*
4. Gina Li. *Northern Virginia Urban Sprawl Analysis Using Landsat Imagery and Demographic Data.*
5. Mary O'Connor, Sarah Chase-Walsh, and Stephen Cerqueira. *A Study of Impermeable Surfaces in the Greater Washington, D.C. Area.*
6. Drew Griffin, Kaylyn Duda, and Geoff Brosch. *The Effect of Protected Wilderness Spaces on Local Human Population.*
7. Mario Garza and Sam Freeman. *Meteorological and Spatial Analysis of the 2012 Colorado Wildfires.*
8. Connor Siebels, Sam Belka, and Ian Flansburg. *Locations for a Trader Joe's in Roanoke, VA.*
9. James Morrow and Nick Luchetti. *A Climatology of Precipitation Efficiency for the Central Appalachian Mountains Region.*
10. Mussie Kebede. *Potential Traffic Congestion as a Function of FBI Relocation.*
11. Eric Guenther and Bingqing Liang. *Mapping Impervious Surface Guangzhou, China using a Hyperion Image.*

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Graduate Student Competition

12. Leyang Feng. *Application of SEBAL Model for Mapping Evapotranspiration in Iowa Using MODIS Time-Series Data.*
13. Sherin Ghannam and A. Lynn Abbott. *Multi-temporal Multi-sensor Data Fusion.*
14. C. Nathan Jones and Durelle T. Scott. *Remotely Sensed Data and Flood Modeling.*
15. Ranjith Gopalakrishnan, Valerie A. Thomas, John Coulston, Randolph H. Wynne. *Producing a canopy height map over a large region using heterogeneous lidar datasets.*
16. Jill Derwin. *Automated Landsat Classification of Tropical Forest Disturbances for Large Scale Identification in the Amazon.*
17. Yi Ning Ku and Dean Bork. *The understanding of landscape preference, using real estate appraisal as analyzing tool.*
18. Suwen Zhao. *Modeling and predicting urban development based on SLEUTH model.*
19. Erin Poor. *Multi-temporal forest change detection in central Sumatra.*
20. Yi-Jei Wu, V.A. Thomas, R.D. Oliver. *Investigating forest conversion across several scales of urbanization in the eastern United States.*
21. Jie Ren, Quinn Thomas, James B. Campbell, Yang Shao. *Analysis of Crop Phenology Using Time-Series MODIS Data and Climate Data.*
22. Andrew B. Kniewski and W. Mark Ford. *Spatial Methods for Broad-Scale Assessment of Deer Browse Impacts in Virginia.*
23. Katie Correll, B. Strahm, and V. Thomas. *Mapping stable nitrogen isotopes using hyperspectral imagery.*
24. Tammy Parece and James B. Campbell. *Accuracy assessment of the National Land Cover Database Impervious Surface dataset for Roanoke, Virginia.*

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Graduate Student Competition - Continued

25. Lonesome Malambo and Conrad Heatwole. *Using Cloud computing for Mapping Seasonal Landscape Fires in Eastern Zambia.*
26. Joby Kauffman. *Spatial Data for Agent-Based Wood Supply Chain Modeling – How Decisions Affect Data Requirements and Ability to Obtain and Produce Data Affects Decisions.*
27. Matthew House. *Forest Conversion Hotspot Detection Using Landsat TM and Known Change Indicators.*
28. Kristin Rader. *Delineating Subwatersheds within the Monongahela National Forest: The Implications of a Watershed Approach on Forest Planning.*
29. Nate Foust-Meyer and Megan E. O'Rourke. *Mapping High Tunnels in the Local Food Systems.*
30. Ling Yu, S. Ball, C. Blinn, K. Moeltner, S. Peery, V.A. Thomas, and R.H. Wynne. *Crowds for Clouds: Using an Internet Workforce to Interpret Clouds in Satellite Images.*

Other Posters

31. Jing Li, Zishang Liu, Wenyu Li. *Application of GIS and RS in Abandoned Land Surveying: A Case Study in Shandong, China.*
32. Erica Adams. *Optimizing Measurement of Broadband Access in Virginia.*

Funding and Support



Earth Observation Day

