

Virginia Tech GIS And Remote Sensing 2013 Research Symposium



April 19, 2013 | 1:00 – 5:30
Torgersen Museum | Room 1100, Torgersen Hall

- 12:00 – 12:30** **POSTER PRESENTERS SET UP DISPLAYS IN THE TORGERSEN MUSEUM**
- 1:00-1:10** **WELCOME AND INTRODUCTIONS**
John McGee, Yang Shao, and Randy Wynne
- 1:10 – 1:40** **WHAT WOULD YOU DO WITH 1 MILLION LANDSAT SCENES?**

Dr. Tyler Erickson, the Earth Engine team at Google
- 1:40 – 2:00** **WHERE DOES WATER GO WHEN IT RAINS? INSIGHTS FROM TERRAIN ANALYSIS.**
Kevin J. McGuire, Assoc. Dir., Virginia Water Resources Research Center; Assist. Professor, Dept. of Forest Resources & Environmental Conservation
- 2:00 – 2:20** **GIS AND REMOTE SENSING IN ENVIRONMENTAL ECONOMICS**
Klaus Moeltner, Associate Professor, VT Department of Agricultural and Applied Economics
- 2:20 – 2:40** **STATISTICAL TREND AND CHANGE POINT ANALYSIS OF LAND COVER CHANGE PATTERNS IN EAST AFRICA**
Dong-Yun Kim, Assistant Professor, VT Department of Statistics
- 2:40 – 3:00** **CURRENT STATE OF GEOSPATIAL TECHNOLOGY AT ESRI AND THE ROAD AHEAD**
Robert Rike, ESRI
- 3:00 – 3:20** **LYME DISEASE EMERGENCE IN VIRGINIA: AN EXPLORATION OF THE ENVIRONMENTAL AND DEMOGRAPHIC VARIABLES CORRELATED WITH DISEASE INCIDENCE**
Liz Dymond, Graduate student at VT Department of Geography

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3:20 – 4:20 **POSTER SESSION**

4:20 – 5:30 **POSTER AWARDS, CLOSING REMARKS, and POST-SYMPIOSIUM SOCIAL**

Poster Presentations* & Post-Symposium Social

*Lead author names provided only. See poster displays for contributing authors.

Poster Competition - Graduate Level

Marcus Aguilar	Leveraging Python in GIS to Support Stormwater Regulatory Compliance
Mahmoud Awadallah	A Framework for Estimating Ground and Top of Canopy from Airborne LIDAR Data
Mike Van Atta	Constricted Urban Planning: Investigating the Site and Suitability of Low-Income Housing in Fairfax County, VA
Evan B. Brooks	Improving the Precision of Dynamic Forest Parameter Estimates Using Landsat
Katherine Correll	Hyperspectral Signature Change of Rhododendron Over a Temporal and Environmental Gradient
Katherine Enriquez	Blacksburg Mural Project
Lyndsey Funkhouser	Determination of the location and significance of the groundwater divide in influencing headland stream capture of the New River watershed
Casey Gresham	Web Map Correlation Application for Cholera Cases, Water Access Points, and Threat to Schools
Ranjith Gopalakrishnan	Efficacy of using heterogeneous LIDAR datasets in generating a tree height map, over a large region
Winfred Mbungu	Evaluation of DEMs derived from SRTM and ASTER for hydrologic applications in the Ruvu Watershed in Tanzania
Matthew N. House	Conversion Hotspot Detection Using Vegetation Index Change Over Time

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Won Hoi Hwang	Comparing Image Classification and Photo Interpretation as Urban Tree Canopy Assessment Methods
Andrew B. Kniewski	Landscape Factors of White-tailed Deer Impacts in Virginia
Ioannis Kokkinidis	Validating the extent of agriculture in select Virginia counties
Allison R. LeBlanc	Remotely sensed vegetation phenology of tropical dry forests in southwestern Dominican Republic
Emily A. Lichstrahl	GIS Applications in Wildlife Habitat Suitability Modeling
Rick Odom	Using Holdridge Life Zones to characterize potential impacts of climate change on forest ecoregions in the eastern US
Tammy E. Parece	Identifying the Extent of Urban Impervious Surfaces using Landsat Imagery
Jie Ren	Mapping Marginal Agricultural Land in Southern Iowa using Landsat 4-5 TM Imagery
Nikita Sharakhov	SpeedSpy: a Web3D Platform to Visualize Georeferenced Broadband Speed Data
Daniel Summer	Conflict on the Mesa: Assessing Defensibility of Plaza-Oriented Villages in the Salinas Pueblo Province, New Mexico
Erica Tefft	Ephemeral Data Collection Following Natural Disasters: Making the Best of a Bad Situation
Wu Yi-Jei	Micropolitan Land-cover change across 4 megaregions in the eastern US

Poster Competition - Undergraduate level

Kevin Gervais	Time Series Satellite Imagery Analysis on the Environmental Effects of Natural Disasters
Ian Hayward	Spatial Analysis for Building a Library in Boko, Dar-es-Salaam, Tanzania
Kate Jones	Our poster will examine the effects of the economic recession
Nick Luchetti	Correlation Between Excessive Heat Waves and Crime Rates in the City of Roanoke.
John P. Miller	Water Resource Management in the South Fork of the Roanoke River

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Michael Marston Clothing Boutique in Shenandoah County, VA

Alison Regan The education gap in Pakistan is a significant problem currently affecting its people

Additional posters

Greg Bonyng Lost and (Mostly) Found: Application of Remote Sensing Data and the GPS for Locating Historical Cemeteries

Anna Wright GIS experience of 9th grade Earth Science Students at Auburn High School

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