

30th Annual Louisiana Remote Sensing and GIS Workshop
May 13-14, 2014
Hampton Inn & Suites Convention Center
New Orleans, Louisiana

Tuesday, May 13, 2014

8:00 –2:00 **Registration**

8:45 - 9:00 **Welcome and Announcements**
Aimee Preau

9:00 – 10:20 **Session 1: Geospatial Technology and Analysis**
Moderator: Fran Fetzer Harvey

1) *ArcGIS JavaScript Plus Django Equals Dynamic Web App*
Leslie H. Morgan, GIS Nuts

2) *Census Numbers to Local Government Funding – Census Apple seeds to Fruit Bearing Trees*
Lynn Dupont, Regional Planning Commission

3) *US Army Reserve Global GIS and Field Application Development*
Kate Woods, Pond & Company

4) *MRHDMS Data Delivery and Visualization on LCA.GOV*
Christina Hunnicutt¹, Craig Conzelmann¹, Anthony Kuczynski²
¹U.S. Geological Survey
²Five Rivers Services

10:20 – 10:45 **Break**
Vendor showcase area

10:45 – 11:45 **Keynote Address**
Introduction – DeWitt Braud

Evolution of GIS and Information Management Support for Emergency Response in EPA and Across Government
Harvey Simon
Geospatial Information Officer, U.S. Environmental Protection Agency

11:45 - 1:00 **Lunch – provided by sponsors and exhibitors**
Exhibitor Presentation: *Get your Web Map ON*
Michael Funaro, Esri

ASPRS Mid-South Region Membership Meeting to follow lunch presentation

1:00 – 2:20

Session 2: Urban GIS

Moderator: Lynn Dupont

- 1) *Development of a Multilevel Linear Referencing System (MLRS) for Baton Rouge, Louisiana*
Justin Priola¹, Jason Carr²
¹Baton Rouge City-Parish Planning Commission
²ARCADIS US, Inc.
- 2) *Maps on the Desktop, Maps on the Move*
Amy Brassieur, Iberia Parish Government
- 3) *Using Aerial Imagery in 9-1-1 Centers*
John Adams, Orleans Parish Communication District
- 4) *Mapping Industrial and Demographic Transformation in US Metropolitan Areas*
David Gladstone¹, Aimee Preau²
¹The University of New Orleans
²Federal Emergency Management Agency

2:20 – 3:00

Poster Session

LAURISA Organization Meeting

3:00 – 4:20

Session 3: Coastal and Geologic Mapping

Moderator: Steve Hartley

- 1) *Creation of a 3-Meter Topobathymetric Elevation Model for Southern Louisiana Using Improved Elevation Masking Techniques*
Jeffrey J. Danielson¹, Dean J. Tyler¹, Daniel M. Howard², John A. Barras¹, Gayla A. Evans¹, John C. Brock¹
¹U.S. Geological Survey
²Stinger Ghaffarian Technologies, Inc.
- 2) *Changes in distribution of common plant species in coastal Louisiana: 1997 - 2013*
Jenneke M. Visser¹, Alexandra Pasch¹, Charles E. Sasser²
¹University of Louisiana at Lafayette
²Louisiana State University
- 3) *An Introduction to the National Hydrography Dataset (NHD)*
David Arnold, U.S. Geological Survey
- 4) *Mapping of Late Quaternary Paleovalleys on the Outer Continental Shelf Offshore Louisiana*
Robert Paulsell, Paul V. Heinrich, Riley Milner, Richard P. McCulloh
Louisiana State University, Louisiana Geological Survey

4:20 – 6:00 **Sponsor/Exhibitor “Speed Dating” and Reception**
Vendor showcase area

Moderator: Kathrine Cargo

Please join all conference attendees for a fun, informative session hosted by RS/GIS Workshop exhibitors. This will be similar in format to Ignite sessions. This sponsor “speed dating” session will allow all participants to get to know the players in the GIS/RS regional arena.

Wednesday, May 14, 2014

8:50 **Announcements**
Craig Johnson

9:00 – 9:20 **Introduction to RSGIS Sponsors**

9:20 – 10:20 **Session 4: Public Safety**
Moderator: Craig Johnson

1) *The First Ever "Louisiana Geographic Response Plans"*
David Gisclair, Louisiana Oil Spill Coordinator's Office (LOSCO)

2) *Safety Planning in a Virtual Environment*
Lamar Davis¹, Steve McKinney²
¹Auburn University at Montgomery
²SICS Consultants

3) *St. James Parish 2013 Backwater Data Improvements*
Ryan Donadieu, Bobby Lear, Scott Louque
St. James Parish Government

10:20 – 10:45 **Break**

10:45 – 11:45 **Session 5: Coastal Resiliency**
Moderator: Kathrine Cargo

1) *System Engineering Analysis for the Hurricane Surge Defense System of the East Bank of the Greater New Orleans Area*
Ezra Boyd¹, John Lopez¹, Rune Storesund²
¹Lake Pontchartrain Basin Foundation
²Storesund Consulting, LLC

2) *Spatial Analysis of Post-Hurricane Katrina Thermal Pattern and Intensity in Greater New Orleans: Implications for Urban Heat Island Phenomenon*
Aram Parrish Lief, University of New Orleans

3) *Pecan Island Case Study: Telling the Collective Story of Land Change*
JoAnne DeRouen, University of Louisiana at Lafayette, Coastal Community
Resilience Studio

11:45 – 12:45 **Lunch – provided by sponsors and exhibitors**

Exhibitor Presentation: *Efficiency in GNSS Data Collection*
Bernard Lemoine, Navigation Electronics, Inc.

12:45 – 2:05 **Session 6: Elevation and Imagery**

Moderator: Chris Cretini

1) *3D Elevation Program and Louisiana Lidar*
Chris Cretini, U.S. Geological Survey

2) *Small Unmanned Aerial Systems - This Changes Everything*
Lewis Graham, GeoCue Corporation

3) *Validation of the 3-Meter Topobathymetric Elevation Model for Southern Louisiana*
Gayla A. Evans, Jeffrey J. Danielson, Dean J. Tyler, John A. Barras,
John C. Brock
U.S. Geological Survey

4) *Precision Street Panos in GIS*
Dan Bellisemo, CycloMedia Technology, Inc.

2:05 – 2:25 **Break**

2:25 – 3:45 **Session 7: Remote Sensing**

Moderator: Brent Yantis

1) *America View and Landsat*
Brent Yantis, UL Lafayette/NASA Regional Application Center

2) *Satellite-derived chlorophyll variability and linkages to large hypoxic events along the Louisiana coast*
Eurico D'Sa, Department of Oceanography and Coastal Sciences, Coastal Studies Institute, Louisiana State University

3) *Landscape scale assessment of floodplain inundation frequency using Landsat imagery*
Yvonne Allen, US Fish and Wildlife Service

4) *Estimation of the monthly distribution of pCO₂ in surface the ocean from remotely sensed temperature and salinity*
Jinchun Yuan, Department of Natural Sciences, Elizabeth City State University

- 3:45 – 4:00 **Break**
- 4:00 – 5:00 **Session 8: GIS Coordination in Louisiana**
Moderator: Aimee Preau
- 1) *Louisiana Geographic Information Systems Council Update*
Gus Rowland, Louisiana Department of Agriculture and Forestry
- 2) *GIS Coordination: We Know What Works*
Craig Johnson, Louisiana Geographic Information Center
- 3) *GIS and Louisiana Artifacts*
Aimee Preau, Federal Emergency Management Agency
- 5:00 – 5:30 **Awards Ceremony**
Moderator: DeWitt Braud
- Student Poster Contest Awards
Presenter: Brent Yantis
- Special Achievement Award
Presenter: Steve Hartley
- Distinguished Service Award
Presenter: Brent Yantis
- 5:30 **Workshop Social Event**
Hotel breakfast area

Thursday, May 15, 2014

Post Workshop Training

These workshops are free to RSGIS attendees. Sign-up sheets will be at the registration table. Training workshops will be on the 3rd floor of Milneburg Hall, located on the Lakefront campus of the University of New Orleans.

- 9:00 - 12:00 *Introduction to the National Hydrography Dataset*
David Arnold, U.S. Geological Survey
- 1:00 – 4:00 *Do More with ArcGIS Online*
Brig Bowles, Esri
- 9:00 – 4:00 *Day 1 of Coastal Inundation Mapping Workshop*
Matt Pendleton, Doug Marcy
NOAA Coastal Services Center

Friday, May 16, 2014

Post Workshop Training

9:00 – 4:00 *Day 2 of Coastal Inundation Mapping Workshop*

Posters

12 Years of the Louisiana Coast wide Nutria Control Program: 2002-2014

Leslie Couvillion, Coastal Environments, Inc.

Mapping Fall and Winter Waterfowl Habitat on Inland Agricultural Lands in the Louisiana Chenier Plain from 2008-2014

Enwright NE¹, Parr MW², Brasher MG³, DeMaso SJ², Wilson BC², and Vermillion WG²

¹U.S. Geological Survey, National Wetlands Research Center

²U.S. Fish and Wildlife Service, Gulf Coast Joint Venture

³Ducks Unlimited, Inc., Gulf Coast Joint Venture

Vegetation Types in Coastal Louisiana in 2013

Charles E. Sasser¹, Jenneke M. Visser², Edmond Mouton³, Jeb Linscombe³, Steve B. Hartley⁴

¹Louisiana State University

²University of Louisiana at Lafayette

³Louisiana Department of Wildlife and Fisheries

⁴U.S. Geological Survey

Mapping Coastal Louisiana (2008)

William R. Jones¹, Adrienne Garber²

¹U.S. Geological Survey

²Five Rivers Services

High School Student-driven Remote Sensing Projects Investigating Coastal Issues

Diane Maygarden¹, Mary Mysing-Gubala², Janell Simpson³

¹University of New Orleans, Pontchartrain Institute for Environmental Sciences

²Benjamin Franklin High School

³Patrick F. Taylor Science and Technology Academy

Development of the Holocene-Pleistocene Surface in the Louisiana Coastal Zone

Paul V. Heinrich, Robert Paulsell, John Snead, Riley Milner, Hampton Peele

Louisiana State University, Louisiana Geological Survey

Mapping of Late Quaternary Paleovalleys on the Outer Continental Shelf Offshore Louisiana

Robert Paulsell, Paul V. Heinrich, Riley Milner, Richard P. McCulloh

Louisiana State University, Louisiana Geological Survey

Student Poster Contest

Preliminary Mapping of Geohazards in the Churia Region of Nepal

Terri Bannister, University of Louisiana at Lafayette, School of Geosciences Geology Department

An ArcGIS Analysis of the Future Climatic and Topographic Suitability for Viticulture in the Tulbagh Valley, South Africa

Jana C. Brady, Louisiana State University

Monitoring Pocosin Lakes Wildlife Refuge Regrowth Using Arc GIS and Landsat Images

Tracy P. Curlings, Elizabeth City State University

Identifying hydrologic relationships in floodplain vegetation classes

Erin L. Johnson, Richard F. Keim, Sammy L. King
Louisiana State University Agricultural Center Research Extension, School of Renewable Natural Resources

Classification of National Park Land Cover

Casey Johnston¹, Jeff Bracewell², Wesley Palmer¹
¹Louisiana Tech University
²National Park Service

Geospatial Analysis of Factors Predictive of Blight and Adjudication in Lafayette, LA

Chad M. LaComb, Southern University Law Center; Department of Planning, Zoning, and Development, Lafayette Consolidated Government

A Hybrid Model of Cellular Automata, Markov, and Logistic Regression for Land Change Prediction in the Lower Mississippi River Basin

Kenan Li, Nina Lam
Louisiana State University, Department of Environmental Sciences

The Heat Island New Orleans: Examining the Thermal Pattern and Intensity in the Aftermath Hurricane Katrina

Aram Parrish Lief, University of New Orleans

Developing Coastal Wetland Management on the Chenier Plain Using Geospatial Analysis of Natural and Anthropogenic Land Change

D. Stephen Nevitt II, Whitney P. Broussard III
University of Louisiana at Lafayette

Twenty Years of Change in Louisiana Coastal Vegetation

Alexandrea Pasch, Jenneke M. Visser, Whitney P. Broussard III

Using Comparison of Soil Water Assessment Tool (SWAT) and Generalized Watershed Loading Function (GWLf) Models for Identifying Critical Source Areas of Nonpoint Pollution in the Corney Bayou Watershed in Louisiana

Bijay Pokharel, Krishna Paudel, and Huizhen Niu

Louisiana State University Agricultural Center Department of Agricultural Economics & Agribusiness

Spruill Farm Past Erosion Calculations Using DSAS Tool, ArcGIS, Landsat and Aerial Photographs

Kristen Stilson, Elizabeth City State University