



35th Annual Louisiana Remote Sensing and GIS Workshop

Louisiana's Premier Workshop on Remote Sensing, GIS, Mapping Science,
Spatial Analysis, and GeoInformatics

March 19 - 20, 2019
LITE Center,
537 Cajundome Blvd.
Lafayette, Louisiana

AGENDA

Tuesday, March 19, 2019

- 8:00 am – 2:00 pm **Registration**
- 9:00 am – 9:15 am **Welcome and Announcements/Housekeeping**
- 9:15 am – 9:45 am **Opening Remarks**
Moderator: Kathrine Cargo
- 9:45 am – 10:15 am **Sponsor Break**
- 10:15 am – 11:15 am **Keynote Address:** *The Louisiana Watershed Initiative: Tackling Tough Decisions Today In Pre-disaster Planning & Water Management*
Moderator: John Sheehan, Louisiana DEQ Non-point Source Pollution Unit, Baton Rouge, LA

The Louisiana Watershed Initiative serves as the program through which floodplain management responsibilities are coordinated across federal, state and local agencies, supported by experts who serve as advisors in building a foundation of data, projects, policies, standards and guidance.

Pat Forbes Executive Director, Office of Community Development, (OCD), Division of Administration, Baton Rouge, LA

Mr. Forbes oversees the state's Community Development Block Grant programs funded by the U.S. Department of Housing and Urban Development. Mr. Forbes' oversight includes housing, economic development, infrastructure and planning programs for recovery from hurricanes Katrina, Rita, Gustav, Ike and Isaac, and the 2016 floods, as well as resilience planning activities and the Small Cities program.

11:15 am – 12:30 pm **Platinum Sponsored Lunch – Taco Tuesday**
Sponsored By: ESRI
(Thank you for Sponsoring LA RSGIS)

12:30 pm – 1:15pm **Session 1: International Applications of GIS Technology**
Moderator: Aimee Preau, GISP, Louisiana Dept. of Environmental Quality, Baton Rouge, LA

1) *Habitation Environment Suitability and Population Density Patterns in China: A Regionalization Approach*
Cuiling Liu, Louisiana State University, Baton Rouge, LA

2) *Using Remote Sensing and GIS as a Reliable Option for Flood Prediction and Monitoring at Macro and Micro Area Levels*
José E. Villalobos Enciso; Patricia E. Rodríguez Schaeffer; Delva R. Guichard Romero; Daysi Escobar Castillejos; Hugo A. Guillén Trujillo; Juan J. Muciño Porras; Facultad de Ingeniería, Universidad Autónoma de Chiapas, Mexico. Cuerpo Académico en Ingeniería Hidráulica y Ambiental

1:15 pm – 1:30 pm **Vendor Break: Sponsored by AECOM**
(Thank you for Sponsoring LA RSGIS)

1:30 pm – 2:00 pm **Sponsor SPARK Session**
Get to know the 2019 Exhibitors and Sponsors

2:00 pm – 3:10 pm **Session 2: GIS Data from State and Federal Initiatives**
Moderator: Steve Hartley, USGS/Wetland and Aquatic Research Center, Lafayette, LA

1) *Mapping Opportunity: Using Geospatial Data for the Selection and Classification of Acadiana's Opportunity Zones*
Chad M LaComb, JD, Acadiana Planning Commission, Lafayette, LA

- 2) *Better Elections with GIS*
Molly Schar, National States Geographic Information Council, New Orleans, LA
- 3) *What's New with the USGS National Geospatial Program?*
Chris Cretini, National Geospatial Program, USGS, Lafayette, LA
- 4) *Louisiana Soils: gSSURGO Data and Tools Update*
Bob Capezza, USDA/NRCS, Alexandria, LA

3:10 pm – 3:25 pm

**Sponsor Break: Sponsored by Pond & Company
(Thank you for Sponsoring LA RSGIS)**

3:25 pm – 4:25 pm

Platinum Sponsor Session

Moderator: Fran Harvey, GISP, Global Geospatial Institute, Baton Rouge, LA

- 1) Environmental Science Services (ES²), Andrew Milanes
Utilizing ArcGIS Online for Affordable Web and Mobile GIS
- 2) Navigation Electronics, Inc. (NEI), Angie Swirski
High Accuracy GPS Data Importance and Software Workflows
- 3) Esri, Joseph “Brig” Bowles
Real – World Application of Web GIS

4:25 pm – 5:25 pm

Session 3: GIS Application in Hydrology

Moderator: Molly McGraw, Ph.D., Southeastern Louisiana University, Hammond, LA

- 1) *GIS Mapping and Beyond*
David Schlotzhauer, Lower Mississippi River Forecast Center, Slidell, LA
- 2) *The Louisiana National Hydrographic Dataset Update and Select Application of NHD Data*
R. Hampton Peele, Louisiana Geological Survey, Louisiana State University, Baton Rouge, LA
- 3) *Statewide H&H Data and Modeling for the Louisiana Watershed Initiative*
Ehab Meselhe, PhD, PE, Department of River-Coastal Science and Engineering, Tulane University

5:45 pm – 8:00 pm **Sponsor Mappy Hour**
Jefferson Street Pub, 500 Jefferson St, Lafayette, LA 70501

Wednesday, March 20, 2019

9:00 am – 9:15 am **Welcome and Announcements**

9:15 am – 10:20 am **Session 4: Panel Discussion: The Challenges of Teaching Spatial Studies in Higher Education**
Moderator: Brent Yantis, UL Lafayette Regional Application Center, Lafayette, LA
Panelists:
Molly McGraw, Southeastern Louisiana University, Hammond, LA
Rusti Liner, River Parishes Community College, Gonzales, LA
Lynn Dupont, University of New Orleans, New Orleans, LA

- 1) *Attracting Students*
- 2) *Student Needs*
- 3) *Technology*
- 4) *Data: Access and Creation*

10:20 am – 10:45 am **Sponsor Break**

10:45 am– Noon **Session 5: State and Local Initiatives**
Moderator: Chelsea Core, Beyond Networks, Inc., New Orleans, LA

- 1) *Lidar Collection Efforts in Louisiana*
Brad D. Doucet, LA DOTD, Baton Rouge, LA
- 2) *Utilizing Roadway Characteristic Data and Crash Locations in GIS to Develop Safety Projects*
Ashley Moran, Acadiana Planning Commission, Lafayette, LA
- 4) *Web GIS Solutions for East Baton Rouge Parish*
Justin Priola, GISP, City of Baton Rouge/Parish of East Baton Rouge
Department of Information Services

12:15 pm – 1:15 pm **Platinum Sponsor Hosted Lunch**
Environmental Science Services (ES²), and Navigation Electronics, Inc. (NEI)
(Thank you for Sponsoring LA RSGIS)

1:15 pm – 2:15 pm **Session 6: Techniques in GIS**
Moderator: Warren Kron, GISP, Department of Information Services, City-Parish of Baton Rouge, LA

- 1) *Water Quality Modeling in Terrebonne Parish*
Mary Trahan, Collin Degueurce, Jennifer Hardman, and Thomas Dupre, Consolidated Waterworks District Number 1 of Terrebonne Parish and Terrebonne Parish, Houma, LA
- 2) *Quick Mobilization of Unmanned Aerial LIDAR: How It Can Help Streamline Workflows*
Angie Swirski and Matt Rosenblam, Navigation Electronics, Inc. Lafayette, LA
- 3) *Applying Geospatial Technology to Assess Urban Blight and Perceived Safety in Baton Rouge, Louisiana*
Judith Stratmann, Carinthia University of Applied Sciences, AT, Alina Ristea, University of Salzburg, AT, and Michael Leitner, Louisiana State University

2:15 pm – 3:15 pm **Student Poster Competition**
Poster Author Interviews: Please feel free to visit the Student Poster Display Area and hear about their projects.

3:15 pm – 4:15 pm **Session 7: Panel Discussion: Building a Sustainable Geospatial Database through State & Local Coordination & Cooperation**
Moderator: Lynn Dupont, New Orleans Regional Planning Commission, New Orleans, LA

Darryl Mack, LA DOTD, Baton Rouge, LA
Kathrine Cargo, GISP, Orleans Parish Communication District, New Orleans, LA
Warren Kron, GISP, Department of Information Services, City-Parish of Baton Rouge, LA
Collin Degueurce, Terrebonne Parish, Houma, LA

- 1) *LA DOTD's State geodatabase efforts including ARNOLD, Roadway Safety Data and MIRE*

2) *Efforts to Coordinate with Local Government*

3) *Maintenance and Future Plans*

4:15 pm – 5:00 pm

Awards Ceremony

Moderator: DeWitt Braud, Dept. of Geography and Anthropology, Louisiana State University, Baton Rouge, LA

5:00 pm – till

Workshop Social Event – Crawfish Boil

LITE CENTER, Lafayette, LA

Poster Presentations

Student Poster Competition

- 1) *Mapping of Nicholls State University's Campus by Utilizing Small Unmanned Aerial Systems (sUAS)*
Brennon Dardar, Ryan DiSalvo, Balaji Ramachandran, Geomatics, Nicholls State University, Thibodaux, LA
- 2) *Geographic Inequality: Mapping Segregation and Poverty in New Orleans*
Theresa Harriford, Southeastern Louisiana University, Hammond, LA
- 3) *Inside the Bikeshare System: A Space-Time Hot Spot Analysis*
Maryam Izadi, Guang Tian, University of New Orleans, New Orleans, LA
- 4) *Above Ground Biomass Estimation in a Sagittaria Lancifolia Marsh Using Advanced Remote Sensing*
Coy LeBlanc, University of Louisiana at Lafayette, Lafayette, LA
- 5) *Coastal Land Loss in Leeville, Louisiana*
Kendall Lee, Southeastern Louisiana University, Hammond, LA
- 6) *Stepwise Downscaling of Satellite Soil Moisture Data (SMAP)*
Yaping Xu, Lei Wang, Cuiling Liu, Rudy Bartels, Jianzhi Dong, Louisiana State University, Baton Rouge, LA
- 7) *Habitation Environment Suitability and Population Density Patterns in China: A Regionalization Approach*
Cuiling Liu, Louisiana State University, Baton Rouge, LA

Non-Competitive Posters

- 1) *The Louisiana Coastwide Nutria Control Program: 2002-2019*
Kaitlin O'Shee, Coastal Environments, Inc., Baton Rouge, LA
Catherine Normand, Louisiana Department of Wildlife & Fisheries, Baton Rouge, LA
- 2) *Land Changes in Jobos Bay, Puerto Rico During 1991-2000: Urban Expansion and Agriculture Conversion*
Cartagena-Colón, M., Gao, Q., and Wang, C., Environmental Science Department, University of Puerto Rico, Rio Piedras Campus, San Juan, Puerto Rico