

# **SWAAG 2016**



## **Meeting Program**

**Denton, Texas  
October 20-22**

**Hosted by:**

University of North Texas  
Department of Geography  
and the Environment

## Platinum Level Sponsors



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## Geography Bowl Sponsors



**Darren Purcell**

**Jonathan Comer**



## SWAAG 2016: Meeting-at-a-Glance

Thursday, October 20, 2016

**11:30 am - 5:30 pm: Registration (UNT on the Square)**

**1:20 pm – 3:00 pm: Paper Sessions**

**3:00 pm – 3:20 pm: Coffee Break**

**3:20 pm – 5:00 pm: Paper Sessions**

**5:00 pm – 7:00 pm: Informal Reception / Dinner  
on Your Own (Mulberry Street Cantina)**

**7:00 pm – Finish: GeoBowl (UNT – EESAT Building)**

Friday, October 21, 2016

**7:30 am – 3:00 pm: Registration (UNT on the Square)**

**8:00 am – 9:40 am: Paper Sessions**

**9:40 am – 10:10 am: Coffee Break**

**10:10 am – 11:50 am: Paper Sessions**

**11:50 am – 1:20 pm: Lunch On Your Own**

**1:20 pm – 3:00 pm: Paper Sessions**

**3:00 pm – 3:20 pm: Coffee Break**

**3:20 pm – 5:00 pm: Paper Sessions**

**5:20 pm – 6:20pm: SWAAG Business Meeting**

**7:00 pm – 9:00 pm: Banquet Dinner (UNT – EESAT Building Atrium)**

Saturday, October 22, 2016

### All Field Trips

#### **Field Trip Option 1: Light Rail to the State Fair of Texas**

Meet at Downtown Denton Transit Center, Leaving on the Saturday 8:15 am A-Train.

#### **Field Trip Option 2: Denton Community Market and Mural Walking Tour**

Meet in front of UNT on the Square, Saturday 10:00 am.

#### **Field Trip Option 3: Shiloh Field Community Garden**

Meet at Shiloh Field (Nottingham Drive and Mingo Road, Denton), Saturday 10:00 am



## Civil Rights as Geospatial Work

**Derek Alderman, University of Tennessee, AAG Vice-President  
Friday Evening Banquet Speaker**

Civil rights struggles, whether spectacular moments of formal protest or the daily acts of defiance, often involve the strategic planning and mobilization of resources, bodies, and information. In other words, African American resistance was and is a matter of work, the product and process of physical, emotional, and social labor. As part of recognizing the materiality and spatiality of this resistance, I argue for an examination of the struggle for civil rights as “geospatial work.”

As part of the fight against white supremacy, legitimacy, African Americans have long participated in (counter) mapping, collecting and analyzing geographical data and intelligence, spatial planning, and the social (re)engineering of places. I offer a series of vignettes that demonstrate the different kinds of geospatial work that African Americans have engaged in as they have sought to take control of their own lives and spaces in the face of rampant racism. These vignettes cross a range of historical periods, case studies, and political contexts—from efforts to escape slavery to the navigation of Jim Crow segregation to famous and less well known campaigns of the Civil Rights Movement and finally to more contemporary place claiming struggles. I conclude by calling for the help of professional geographers and other spatial scientists, asking that we consider ways to make civil rights more central to geographic research, teaching, and outreach. Doing so will not happen naturally or just eventually, but requires our own disciplinary work and the AAG can play an important role in this labor.

### **SWAAG Officers**

Dr. Michaela Buenemann, Chair

Dr. Jason Julian, Secretary

Dr. Matthew Fry, Treasurer

Dr. Murray Rice, Immediate Past Chair

Dr. Darren Purcell, AAG Regional Councilor

### **SWAAG 2016**

#### **Local Arrangements Committee**

Tami Deaton

Dr. Matthew Fry

Dr. Paul Hudak

Dr. Kent McGregor

Dr. Feifei Pan

Dr. Murray Rice

Dr. Chetan Tiwari

## SWAAG 2016 Conference Venues

- UNT on the Square (registration, meeting headquarters, poster and paper sessions): 109 North Elm St. Denton, TX 76201
- Courthouse on the Square (“1896 Room” and “Court Room” session venues): 110 West Hickory St. Denton, TX 76201
- Mulberry Street Cantina (session venue): 110 West Mulberry St. Denton, TX 76201
- UNT Environmental Education, Science, and Technology (EESAT) Building (Thursday GeoBowl, Friday evening banquet venue): 1704 West Mulberry Street, Denton, TX 76201

### Courthouse Square Conference Venues Map (Thursday and Friday)



A hotel shuttle bus will run between the Best Western Conference Hotel and the Square:

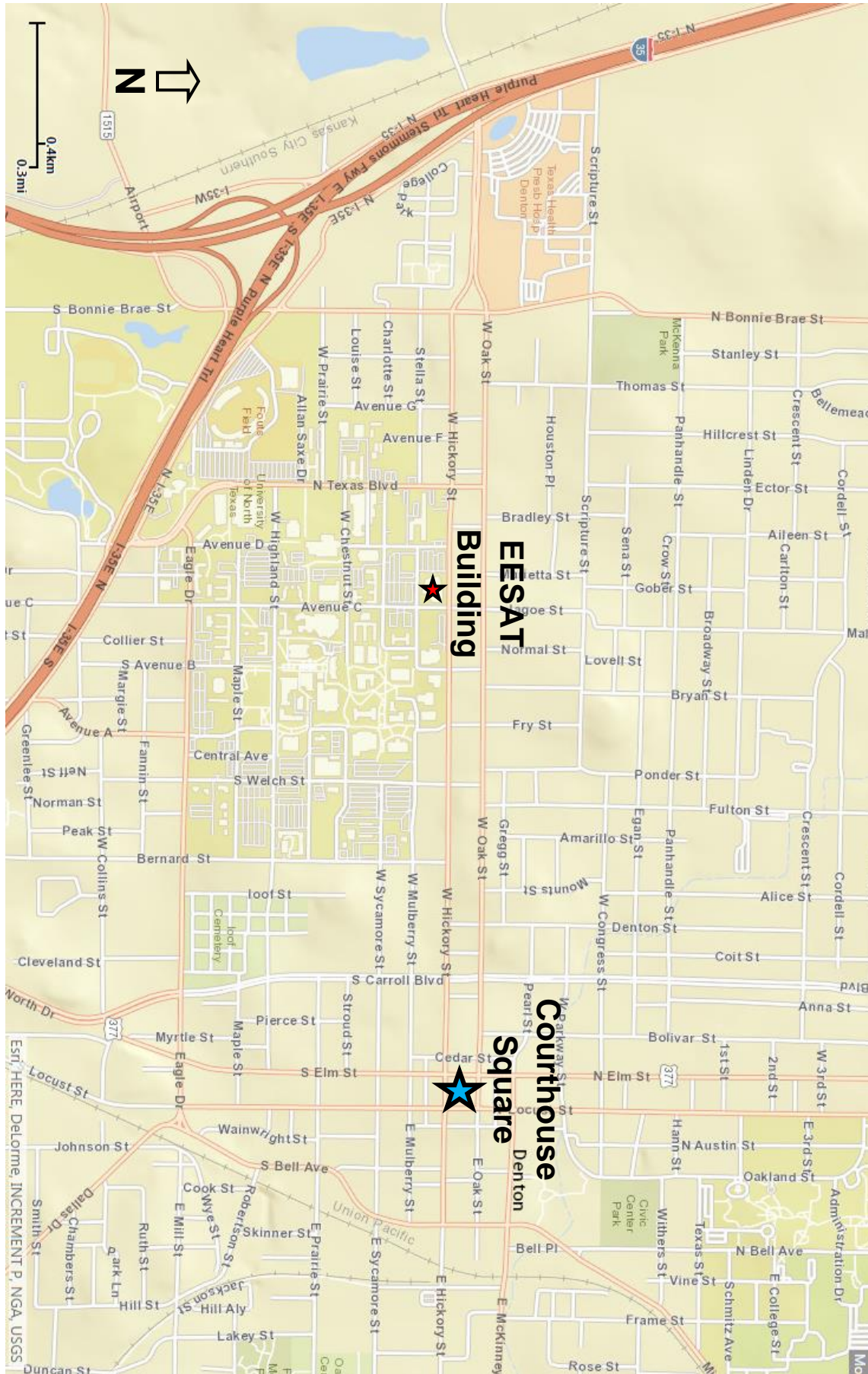
**Thursday:** 2 pm to 3pm and 9pm to 10pm

**Friday:** 7 am to 8 am and 9 pm to 10 pm

Additionally, a separate UNT shuttle will run between UNT and the Square for GeoBowl and the Friday Banquet

# UNT EESAT Building Map (Thurs. GeoBowl, Fri. Evening Banquet)

0.9 Miles Directly West of Denton's Courthouse Square (take West Hickory if walking)



# Thursday, October 20, 2016

## Session A: 1:20 PM – 3:00 PM

### A01: Water | Mulberry Street Cantina

**Session Chair:** Don Jonsson, Austin Community College

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|---|---|
| <b>Cost Path Analyses of Water Acquisition Costs for Ancestral Puebloan Communities in the Jemez Mountains, New Mexico (AD 1100-1700)</b> | Michael Aiuvalasit<br>Southern Methodist University           |
| <b>The Implications of the Commodification of the San Joaquin River</b>   | Andrew Hoyt<br>University of North Texas                      |
| <b>The Geographic Impact of the 2015 Blanco River Floods in Texas</b>   | Don Jonsson<br>Austin Community College                       |
| <b>Leaking Underground Storage Tanks in Indiana</b>   | Richard Jason Lenz<br>Creek Run LLC Environmental Engineering |
| <b>Are Streams Protected? Outcomes of Environmental Governance</b>  | Zachary Rowen<br>University of North Texas                    |

### A02: GIS Methods | 1896 Room, Courthouse on the Square

**Session Chair:** David Butler, Texas State University

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|--|--|
| <b>The Problems of Estimating Interaction Between Mosquito and Human Populations in an Urban Environment</b> | Kristin Brooks<br>University of North Texas                    |
| <b>Analyzing Voting Patterns with a Natural Breaks Method</b>  | Jennifer Beveridge<br>University of Central Oklahoma           |
| <b>Predicting Alcohol Related Crime in Denton</b>  | Brince Jones<br>University of North Texas                      |
| <b>The impacts of Urban Sprawl in the Toluca Metropolitan Zone, Mexico.</b>                                  | Angelica Valencia<br>Universidad Autonoma del Estado de Mexico |
| <b>Rediscovering the "Lost" 1925 Low-angle Aerial Photographs of Glacier National Park, Montana</b>          | David Butler<br>Texas State University                         |

## Session B: 3:20 PM – 5:00 PM

### B01: Urban Landscapes | Mulberry Street Cantina

**Session Chair:** Eric Sarmiento, Texas State University

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| <b>Syncretic Landscapes: Bangkok's Spirit Houses as Everyday Spaces of Non-Formal Sacredness</b> | Robert Garrett<br>Oklahoma State University  |
| <b>Resettlement and Place-Making in Urban Refugee Farming</b>                                    | Marinda Griffin<br>University of North Texas |
| <b>Walkable City? An Analysis of Access to Walkable Neighborhoods in a Shrinking City</b>        | Paula Jones<br>Texas State University        |

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| <b>Socio-Spatial and Temporal Patterns Associated with Permitted Tree Removal in Austin, Texas</b>   | Brendan Lavy<br>Texas State University                     |
| <b>Rethinking Subjectivity Through ‘Assemblages’: The Emergent Subjects of Oklahoma City’s “Local Food Revolution”</b>                                 | Eric Sarmiento<br>Texas State University                   |
| <b>B02: Human Geography 1   1896 Room, Courthouse on the Square</b>  |  |
| <b>Session Chair:</b> Colleen Hiner, Texas State University  |  |
| <b>Magical Realism in India’s Foreign Direct Investment Policy</b>   | Waquar Ahmed<br>University of North Texas                  |
| <b>Perceptions of Economic Migration in the European Union From the Viewpoint of Polish University Students</b>  | Michelle Brym<br>University of Central Oklahoma            |
| <b>Corporate Climate Mitigation and Adaptation: A Comparative Study</b>  | Jayme Walenta<br>Texas A&M University                      |
| <b>The Origins of Innovation Through Culture, Economy, and Local Resources: Fighting the Homogeneous Life and Rediscovering the Multitudinous Life</b> | Dane Wilkins<br>University of Oklahoma                     |
| <b>Apples as Actors: An Actor-Network Approach to Understanding Fermented Landscapes</b>   | Colleen Hiner and Walter Furness<br>Texas State University |

**Informal Reception / Dinner on Your Own:  
5:00 PM – 7:00 PM (but stay as long as you want)  
Mulberry Street Cantina, 110 West Mulberry St. Denton, TX 76201**

**GeoBowl: 7:00 PM – Finish  
UNT – EESAT Building, 1704 West Mulberry Street, Denton, TX 76201  
0.9 mile walk from Square; Some Shuttle Bus Service Available from  
behind UNT on the Square**



# Friday, October 21, 2016

## Session C: 8:00 AM – 9:40 AM

### C01: Shale Energy | 1896 Room, Courthouse on the Square

**Session Chair:** Trey Murphy, University of North Carolina, Chapel Hill

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|---|--|
| <b>Urban Drilling and Shale Gas Governance in Texas</b>   | Matthew Fry<br>University of North Texas                 |
| <b>Territories of Shale Gas Governance</b>  | Wes Hellman<br>University of North Texas                 |
| <b>Nucleo Agrario Property Regime Diversity in Mexico's Five-Year Plan Hydrocarbon Blocks</b>   | Andrew Hilburn<br>Texas A&M International University     |
| <b>Everybody Wants an Oil Well in Their Backyard: Shifting Social Relations Determined Through Eagle Ford Shale Mineral Interests</b>                 | Trey Murphy<br>University of North Carolina, Chapel Hill |
| <b>Capitalism's Crisis and the Great Coal Strike: Early Environmental Policy and a Diplomatic Turning Point in the American Labor Wars, 1897-1903</b> | Jacob Robert Wolff<br>The University of New Mexico       |

### C02: Graduate Student Paper Competition 1 | Court Room, Courthouse on the Square

**Session Chair:** Matthew Connolly, University of Central Arkansas

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| <b>Burn Days Climatology of the South Central Plains</b>   | Darrian Bertrand<br>University of Oklahoma        |
| <b>Nonlinear Relationships Between Land Use/Cover Change and Sediment Runoff on an Intensively Managed Landscape</b>       | Ioannis Kamarinas<br>Texas State University       |
| <b>Improving Seasonal Climate Forecasts for U.S. Winter Wheat Producers</b>  | Toni Klemm<br>University of Oklahoma              |
| <b>Modeling the Impact of Woody Plants on Desert Bighorn Sheep Habitat in the San Andres Mountains, New Mexico, U.S.A.</b> | Nathan Lopez-Brody<br>New Mexico State University |

### C03: Parks and Recreation | Mulberry Street Cantina

**Session Chair:** Stephen O'Connell, University of Central Arkansas

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| <b>21st Century Environmentalism Amidst Dueling Weltanschauungen: Crossing an Axial Age or Adrift in the Gulf?</b>         | John Davenport<br>Missouri Southern State University |
| <b>Are Historical Fire Regimes Compatible with Future Climate? Implications for Forest Restoration at the Grand Canyon</b> | William Flatley<br>University of Central Arkansas    |
| <b>What Makes A Park?: Landscapes of Success and Failure in National Park Service Site Proposals</b>                       | Stephen O'Connell<br>University of Central Arkansas  |
| <b>National Parks Tourism and Its Effects on the Surrounding Communities: A Case Study of Jackson, WY and Driggs, ID</b>   | Christina Roush<br>University of North Texas         |

## C04: Innovative Methods | UNT on the Square

**Session Chair:** Adam Mathews, Oklahoma State University

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|---|---|
| <b>Assessing Relationships Between Spaceborne Radar and Airborne Lidar in the Estimation of Urban Built-Up Volume: A Project Overview and Preliminary Results</b> | Adam Mathews<br>Oklahoma State University           |
| <b>A Simplified Object-Based Method for Building Footprint Extraction using Lidar Data</b>  | K. Colton Flynn<br>Oklahoma State University        |
| <b>Exploring Spatial Relationships Between Lidar-Derived Building Volume and Work-Home Population</b>   | Gustavo Ovando-Montejo<br>Oklahoma State University |
| <b>Ideal Methods for Identifying Vegetation in the Urban Environment: A Study of Oklahoma City, 2006</b>  | Emily Ellis<br>Oklahoma State University            |
| <b>A Combined ABM-CA Approach for Analyzing Effects of Peer-Influence and Landowner Decision-Making Processes on Patterns of Urban Development</b>                | Jennifer Koch<br>University of Oklahoma             |

## Session D: 10:10 AM – 11:50 AM

### D01: The Things the Sky Brings | 1896 Room, Courthouse on the Square

**Session Chair:** Alexandra Ponette-Gonzalez, University of North Texas

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|---|---|
| <b>Year-Round Source Contributions of Fossil Fuel and Biomass Combustion to Elemental Carbon on the North Slope Alaska Utilizing Radiocarbon Analysis</b> | Tate Barrett<br>University of North Texas               |
| <b>Paleolithic dust: It's Role in the Study of Human Evolutionary Ecology</b>   | Reid Ferring<br>University of North Texas               |
| <b>It's Raining Dust: Wet Dust Deposition at Two Texas Sites</b>  | Alexandra Ponette-Gonzalez<br>University of North Texas |
| <b>Carbon Monoxide Seasonality, Interannual Variability, and Trends Over Major US Cities: How Does Urban Size Matter?</b>                                 | Baojuan Sheng<br>South Dakota State University          |
| <b>Spruce Budworm Frass Subsidizes Stream Food Webs</b>   | Sally Entrekin<br>University of Central Arkansas        |

### D02: Graduate Student Paper Competition 2 | Court Room, Courthouse on the Square

**Session Chair:** Matthew Fry, University of North Texas

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|---|---|
| <b>Understanding Perceptions of Climate Change Among Geography Major Undergraduates at Texas State University</b> | Upendra Bom<br>Texas State University           |
| <b>Social Demand of a Blue Space: Use, Value, and Perceptions of the San Marcos River, Texas</b>                  | Graham Daly<br>Texas State University           |
| <b>Spatial Distribution of Mosquitoes that Vector Zika, Dengue, and West Nile Virus in New Mexico</b>             | Stephanie Mundis<br>New Mexico State University |
| <b>Memory and Continuity Amidst Irreversible Decline in the Texas Big Empty</b>                                   | Reed Underwood<br>University of North Texas     |
| <b>How Urban Form Rejects High-Speed Rail: A Focus on High-Speed Rail Proposals in the United States</b>          | Yun Zhao<br>Oklahoma State University           |

### D03: Spatial Perspectives on Disasters | Mulberry Street Cantina

**Session Chair:** John Carr, University of New Mexico

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| <b>Flexible Space as a “Third Way” in Urban Planning: Lessons from Critical Geography</b>         | John Carr<br>University of New Mexico            |
| <b>Emergency Response Aid Allocation: A Spatial Analysis Approach</b>                             | Lauren Dent<br>University of North Texas         |
| <b>Evaluating the Effects of CCTV Cameras on Crime Distribution in Baltimore City</b>             | Brooks Pearson<br>University of Central Arkansas |
| <b>Tornado Warning Cognition: The Roles of Visual Design, Demographics, and Hazard Experience</b> | Ronald Schumann<br>University of North Texas     |

### D04: Poster Session | UNT on the Square

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|---|---|
| <b>Topography and Land Use Control the Spatial Pattern of Treeline in the Langtang Valley, Central Nepal</b>  | Blake Welborn<br>Texas A&M University                 |
| <b>Shamu's Demise: Public Opinion on Sea World after Blackfish</b>  | Brittany Jandick<br>University of North Texas         |
| <b>Impact Lufkin: Phase One of an Integrated Transdisciplinary, Interagency Participatory Geography Project</b>                                     | Darrel McDonald<br>Stephen F. Austin State University |
| <b>Removal of Atmospheric Black Carbon By Urban Trees</b>   | Jenna Rindy<br>University of North Texas              |
| <b>Assessing the Impact of Hurricane Storm Surge Sediment Deposits on Marsh Sedimentation Rates on the McFaddin National Wildlife Refuge, Texas</b> | Joshua Hodge<br>Texas State University                |
| <b>Zooarchaeological Data Support a Broader Late Holocene Distribution of the Louisiana Pigtoe (<i>Pleurobema riddellii</i>) in North Texas</b>     | Julian Conley<br>University of North Texas            |
| <b>Contested Space and GPS Based Gaming: A Look at the Pokemon Go Revolution</b>  | Kathleen Cade-Gerzon<br>Texas Tech University         |
| <b>Joshua Tree National Park: Cheatgrass and Wildfire Distribution</b>  | Katie Allegro<br>Texas State University               |
| <b>Residents' Perceptions of Urban Tree Benefits and Problems in the City of Denton, TX</b>   | Katie Krupala<br>University of North Texas            |
| <b>Modeling and Simulation of Water Management in the Rio Grande River Basin</b>  | Kyndar Hanson<br>University of Oklahoma               |
| <b>Debris-Flow Probability in the Santa Fe Municipal Watershed</b>  | Manuel Lopez<br>New Mexico State University           |
| <b>Strong Mayor or City Manager? Trends of the United States vs Arkansas</b>  | Margo Jordan<br>University of Central Arkansas        |
| <b>The Effect of Recreational Boat Traffic on the Distribution of Curly Leaf Pondweed in Manitowish Waters, Wisconsin</b>                           | Michelle Freyder<br>Texas Tech University             |
| <b>Impact of Major Tropical Cyclones on US Gulf Coast Population</b>  | Richard Dixon<br>Texas State University               |
| <b>Disaster Resilient Housing for the Economic Sustainability of Bangladesh: Business incubators for the Rural Women</b>                            | Tasnuva Shabnam Udit                                  |

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| <b>Efficient Use of Space: Mixed-Use Planning Through the Eyes of Conway's Top Restaurants</b> | Will Dane<br>University of Central Arkansas          |
| <b>Undergraduate Monitoring of Pre- and Post-Burn Wilderness Longleaf Pine</b>                 | William Forbes<br>Stephen F. Austin State University |

## LUNCH BREAK: 11:50 AM – 1:20 PM

On your own

## Session E: 1:20 PM – 3:00 PM

### E01: Renewable Energy | 1896 Room, Courthouse on the Square

**Session Chair:** Steve Stadler, Oklahoma State University

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| <b>Pushback from Oklahoma Wind Farms: Socioeconomic Factors for Negative Response to Wind Turbine Farms</b>   | Jaryd Hinch<br>Oklahoma State University   |
| <b>The Impact of Related Industries on the Emergence of New Industries: Insights from Renewable Energy</b>  | Peter Kedron<br>Oklahoma State University  |
| <b>Solar Powered Discourse: Using Q-Methodology to Explore the Evolution of the Solar Energy Conversation in the San Luis Valley of Southern Colorado</b> | Aaron Russell<br>University of New Mexico  |
| <b>Wind Power Runs Afoul of Oklahoma</b>  | Steve Stadler<br>Oklahoma State University |
| <b>Smarter-Phones: Bicycle and Pedestrian Planning from a Crowd-Sourced Perspective</b>   | Zach Taraschi<br>University of New Mexico  |

### E02: History and Landscapes | Court Room, Courthouse on the Square

**Session Chair:** Bret Wallach, University of Oklahoma

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| <b>Re-Imagining The Islands: Environmental Change in the Florida Keys</b>                                       | Maria Lane<br>University of New Mexico             |
| <b>Visualizing the Trajectory of Jews Deported from Italy During the Holocaust</b>                              | Maël Le Noc<br>Texas State University              |
| <b>The Black American Population Before 1865: A New Method for Conceptualizing Regional Historical Identity</b> | Jeffery Roth<br>Stephen F. Austin State University |
| <b>Does the Visible Residue of European Rule in Africa Make Us Reconsider Our Opinion of Imperialism?</b>       | Bret Wallach<br>University of Oklahoma             |
| <b>Growth, Development, and Housing Stock Quality in the Administrative U.S. Appalachian Region</b>             | Russell Weaver<br>Texas State University           |

### E03: Uncertainty and Spatial Autocorrelation | Mulberry Street Cantina

**Session Chair:** Daniel Griffith, University of Texas at Dallas

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| <b>Correlation and Spatial Autocorrelation: Specification Uncertainty</b> | Sang-Il Lee<br>Seoul National University and<br>University of Texas at Dallas |
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| <b>Visualization of Uncertainty in Image Classification with Special Reference to Spatial Autocorrelation</b>                 | Hyeongmo Koo<br>University of Texas at Dallas  |
| <b>Spatial Autocorrelation Features of Locational Uncertainty Introduced with Kernel Smoothing to Protect Confidentiality</b> | Mongheyon Lee<br>University of Texas at Dallas |
| <b>A Spatial Analysis of 2000-2010 Breast Cancer Cases in Duval County, FL: Model Specification Issues</b>                    | Lan Hu<br>University of Texas at Dallas        |
| <b>Uncertainty and the Presence of Negative Spatial Autocorrelation in Georeferenced Data</b>                                 | Yongwan Chun<br>University of Texas at Dallas  |

### E04: Poster Session | UNT on the Square

\* = undergraduate student in poster competition; \*\* = graduate student in poster competition

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| <b>Media Coverage of Drought in Southwest Region</b>   | Alex Shaffer*<br>University of Oklahoma                |
| <b>Finding Suitable Location for a New Park, in Murray, Ky Using Fuzzy Membership and Fuzzy Overlay Tools</b>  | Amal Aljaddani**<br>Texas Tech University              |
| <b>Impacts of Wind Power Development on Oklahoma's Public Schools</b>  | Becca Castleberry**<br>University of Oklahoma          |
| <b>Growing Social Capital: A Case Study of an Urban Vineyard in Cleveland, OH</b>  | Camille Cotsakis<br>Texas State University             |
| <b>Future Hydrologic Extremes in the Red River Basin</b>   | Darrian Bertrand**<br>University of Oklahoma           |
| <b>The Case of Mr. Hardeman</b>  | Emil Karlsson*<br>Stephen F. Austin State University   |
| <b>Connect in Protected Places in Texas Using Riparian Conservation Networks</b>   | Grant Moss**<br>Texas State University                 |
| <b>Monitoring Heavy Precipitation and Drought to Enhance U.S. Air Force Predictions and Decision-Making in the Levant and Central American Regions</b>               | Hayley Hajic<br>University of New Mexico               |
| <b>Predicted Impact of New Selwyn College Preparatory School Campus Location on Enrollment</b>   | Seguin Alexander*<br>Selwyn College Preparatory School |
| <b>TGOS Map -- The Social Effects of Online Map</b>  | Joyce Chien<br>Texas State University                  |
| <b>Effects of Land Cover Change on Duck Populations within Managed Duck Hunting Areas in Missouri</b>  | Levi Shinn**<br>University of Nebraska at Omaha        |
| <b>Towards an Integrated Water Resource Management in the Rio Grande River Basin - An Example of Water Rates in El Paso, Texas</b>                                   | Madeline Hinchliffe<br>University of Oklahoma          |
| <b>Stream Fragmentation and Infrastructure Condition in the Great Plains</b>   | Nathan Sleight**<br>University of Oklahoma             |
| <b>Rainfall Interception by Urban Tree Canopies in Denton, TX</b>  | Patrick Edington<br>University of North Texas          |
| <b>Integrating Distribution Models of Forage Resources with Confirmed Presence Records of Migratory Nectar-Feeding Bats to Generate Seasonal Distribution Models</b> | Rachel Burke<br>New Mexico State University            |
| <b>On the Problem of Random Selection in a Public Space</b>  | Susanna Diller<br>University of New Mexico             |

## Session F: 3:20 PM – 5:00 PM

### F01: Human Geography 2 | 1896 Room, Courthouse on the Square

**Session Chair:** Michael Yoder, University of Central Arkansas

**Gender on the Road: An Examination of the Journey to Work in the American Southwest**

Perry Carter  
Texas Tech University

**Inland Ports of Mexico and the Geography of Intermodal Shipping**

Michael Yoder  
University of Central Arkansas

**Towards an Anti-Reductionist Geography of Objects: An End to 'Animal Farm Holism' and 20th-Century Constructivism**

Charlie Jackson  
New Mexico State University

**Uncovering Motivations of Kombucha Home-Brewers in Central Texas Communities**

Elizabeth Yarbrough  
Texas State University

### F02: Conservation, Tree Lines and Drones | Court Room, Courthouse on the Square

**Session Chair:** Amy Frazier, Oklahoma State University

**Morphometric Characteristics of Treeline Species Along the Treeline Ecotone in the Nepal Himalayas**

Parveen Chhetri  
Texas A&M University

**Unmanned Aerial Systems (UAS) and Severe Weather: Challenges and Opportunities for Geographic Information Science**

Amy Frazier  
Oklahoma State University

**Examining the Effect of Image Overlap on Structure from Motion (SfM) Generated Point Cloud Densities**

Benjamin Hemingway  
Oklahoma State University

**Weighted Sum Conservation Strategy for Southwest New Mexico and Cochise County, Arizona**

Renee Pardee  
New Mexico State University

### F03: Developments in Remote Sensing | Mulberry Street Cantina

**Session Chair:** Pinliang Dong, University of North Texas

**Determining the Relative Roles of Climate and Land Use on Land Cover Changes in New Zealand**

Kirsten de Beurs  
University of Oklahoma

**Automated Building Change Detection Using Zonal Statistics Derived from Multi-Temporal LiDAR Data**

Pinliang Dong  
University of North Texas

**Application of the Water Balance Method in Estimating Daily Lake Evaporation in an Arid Region of Northwest China**

Feifei Pan  
University of North Texas

**Xeriscaping and Tree Mortality in Albuquerque: A Remote Sensing Analysis**

Sagert Sheets  
University of New Mexico

## F04: Poster Session | UNT on the Square

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| <b>Distribution Patterns in Appalachian Table Mountain Pine and Pitch Pine Stands</b>  | Alison Hanson<br>Texas A&M University  |
| <b>The Price of Parks: Parks and Recreation Land, Demographic Change, and Housing Affordability in Austin, Texas</b>                               | Caitlin Schneider<br>Southwestern University   |
| <b>Decision Support Systems: An Interdisciplinary Geospatial Perspective to Tornado Warning Forecast Areas</b>                                     | Chloe Magee<br>University of Oklahoma  |
| <b>An Assessment of Ecological Intentional Communities Environmentally Responsible Design: Examples from Texas</b>                                 | Christina Lopez<br>Texas State University  |
| <b>Futures of Oklahoma City: Using the FUTURES Model in Oklahoma City</b>  | Claude Buerger<br>University of Oklahoma   |
| <b>Re-Entry Services and Recidivism</b>  | David Mills<br>Texas State University  |
| <b>An Assessment of Dam Removals in Texas</b>  | Erin D. Dascher<br>Texas State University  |
| <b>Assessment of Vegetation Response to Frequent Wildfire and Debris Flow Events at Bandelier National Monument, New Mexico</b>                    | Gladys Valentin<br>University of New Mexico  |
| <b>The Varying Effects of City Government Actions on Urban Planning</b>  | Isaac Sims<br>University of Central Arkansas   |
| <b>Spatiotemporal Connections between Land Use and River Water Quality across 77 Catchments in New Zealand over 26 years</b>                       | Jason Julian<br>Texas State University   |
| <b>Patchwork Bridges: Exploring Oklahoma's Upkeep of Transportation Infrastructure</b>   | Jonathan Craig, Jeffrey Widener<br>University of Oklahoma                            |
| <b>Southwestern Campus as a Sustainable Living Laboratory</b>  | Keara Hudler<br>Southwestern University  |
| <b>Hispanic Role in Water Usage and Water Conservation in Dona Ana County</b>  | Maria Vitolas<br>New Mexico State University   |
| <b>Modeling Land Acquisition Priorities for Drinking Water Protection in a Peri-urban Watershed Using Multi-Criteria Decision Analysis and GIS</b> | Matthew Connolly, Toby Patrick,<br>and Kaci Dickey<br>University of Central Arkansas |
| <b>GIS-based Modeling of Tornado Siren Sound Propagation in Stillwater, Oklahoma</b>   | Matthew Haffner<br>Oklahoma State University   |
| <b>Tree Ring Growth Pattern of <i>Abies spectabilis</i> from Sub-Alpine Forest of Dhorpatan Hunting Reserve, Western Nepal</b>                     | Parveen Chhetri<br>Texas A&M University  |
| <b>The Potential and Rate of Shrub Expansion on the North Slope of Alaska</b>  | Rosemary Dwight<br>Texas A&M University  |
| <b>Undergraduate Monitoring of Urban Forest Restoration Treatments</b>   | William Forbes<br>Stephen F. Austin State University                                 |

**SWAAG Business Meeting: 5:20 PM to 6:20 PM**

**Court Room, Courthouse on the Square**

**SWAAG Banquet: 7:00 PM to 9:00 PM**

**UNT - EESAT Building, 1704 West Mulberry Street, Denton, TX 76201**

**0.9 mile walk from Square; Some Shuttle Bus Service Available from  
behind UNT on the Square**