



Third Annual

**Texas
Geography Student
Research Symposium**

Department of Geography
Texas State University | San Marcos

21 April 2006

12:00 – 12:05 Introduction and Welcome Room 114
Texas Geography Student Research Symposium Committee

Chair: Noah Hopkins
 Members: Joshua Bailey, Lauren Bilbe, Alecia Brettschneider, Dawna Cerney,
 James Graham, Laure Hoffman
 Alumni Members: Mikaila Bell, '04 & Kirk Schoppe, '05
 Faculty Advisor: Lawrence Estaville

12:05 – 1:00

Plenary Session Chair – Lauren Bilbe	Room 114
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Andrew Sansom *Natural Resource Challenges of the Future*
 Executive Director, River Systems Institute
 Texas State University-San Marcos
 Former Executive Director, Texas Parks & Wildlife Division

1:10 – 2:10

1.1 Water Resources Chair – Ruben Lopez	Room 311
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1:10 Nathaniel Banda *Modeling the Blanco Watershed*
 1:30 Cyrus Reed *Agricultural Water Conservation in the Irrigation Districts of Chihuahua: Drought, Dispute and Water*
 1:50 Jonathon Frodge *Modeling the Occurrence of Springs and Seeps Along the Blanco River, Texas Using Logistic Regression*

1.2 Geographic Education Chair – Audrey Mohan	Room 312
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1:10 Audrey Mohan *Accelerated PhD Program in Geographic Education*
 1:30 Zachary Moore *Status of Geography Curriculum in the Texas 6th Grade Contemporary World Societies Class*
 1:50 Christopher Murr *Disabled Students and Standards in the U.S. with Special Emphasis on Geography Standards*

1.3 GIScience Chair – Scott Smith	Room 316
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1:10 Dawna Cerney *Multitemporal Assessment of Landscape Change from Oblique Photographs*
 1:30 Xuelian Meng *A Directional Scanning Filter to Remove Non-Ground Measurements from Airborne LIDAR Data*
 1:50 Junmei Tang *Improving Urban Landscape Classification through Fuzzy Supervised Classification and SMA*

2:10 – 2:30

Poster Session

3rd Floor – Evans Liberal Arts Building

Coordinator – Noah Hopkins

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| Mindy Conyers | <i>A Sensitivity Analysis of the Hydraulically-Assisted Bathymetry Model for Remote Sensing of River Depths</i> |
| Frank Engel | <i>Effects of Flood Control Structures on the San Marcos River, Texas</i> |
| Noah Hopkins | <i>Assessing Biodiversity Concerns of Urban Sprawl and Predicting Smart Growth in Hays County, Texas</i> |
| Amanda Keen-Zebert | <i>Spatial Variation of Channel Reach Type in the Guadalupe River, a Mixed Alluvial-Bedrock River in Central Texas</i> |

2:30 – 3:30

2.1 Water Resources: Evolving Groundwater Regulation & Drought Planning in Texas

Room 311

Chair – Lauren Bilbe

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| Panelists: | Rick Illgner | Edwards Aquifer Authority |
| | Todd Votteler | Guadalupe-Blanco River Authority |
| | Russell Johnson | Adjunct Faculty in Water Resources, Water Law Attorney |
| | Richard Earl | Associate Professor in Water Resources |
| | Carissa Belsky | Undergraduate Student in Environmental Geography |
| | Wendy Patzewitsch | Graduate Student in Public Perceptions of Water Resources, TAMU |
| | Lauren Bilbe | Undergraduate Student in Environmental Geography |

2.2 Transportation Options in Texas: The Shape of Our Communities

Room 312

Chair – Michelle Bussemey

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| Panelists: | John Thomaides | City Councilman, City of San Marcos
Board Member, Austin-San Antonio Commuter Rail District |
| | Samuel L. Woods | Transportation Planning Director, Lubbock Metropolitan Planning Organization |
| | Michelle Bussemey | Master's Student in Environmental Geography |
| | Robert "Ty" Wolosin | Undergraduate Student in GIS, Texas State University |
| | Jennifer Rogers | Undergraduate Student in Urban & Regional Planning |

2.3 Canned Knowledge: GIS Training in Higher Education

Room 316

Chair – James Graham

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| Panelists: | Dan Stone | Technical Services Manager, ESRI-San Antonio |
| | Mary Beth Booth | Assistant Professor in Geography, Austin Community College |
| | Yongmei Lu | Assistant Professor in Geography, Texas State University |
| | David Salisbury | Doctoral Student in Geography, UT-Austin |
| | James Graham | Master's Student in GIS, Texas State University |
| | Nathanael Banda | Undergraduate Student in GIS, Texas State University |

3:40 – 4:40

3.1	Cultural Geography: Central & South America	Room 311
	Chair – Melissa Gray	

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| 3:40 | William Flynn | <i>The Andean Charango: A Cultural Geography of the Original Armadillo World Headquarters</i> |
| 4:00 | Drew Bennett | <i>Coffee, Conservation, and Livelihood Strategies: A Case Study from the Coffee Lands of Northern Nicaragua</i> |
| 4:20 | David Salisbury | <i>The Social and Environmental Impacts of Coca Cultivation in the Amazonian Borderlands</i> |

1.2	Education for the Geographically Challenged	Room 312
	Chair – Bonnie Cole	

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| 3:40 | Catherine Cunningham | <i>The Effectiveness of Public Participation: Public Engagement in the Re-permitting of a Smelter in El Paso</i> |
| 4:00 | Eric Sansom | <i>Nature and Heritage Tourism in Chiapas: Preserving the Attraction through Education</i> |
| 4:20 | Suzi Wiseman | <i>Teaching Georeferencing for Estimation - Using the Example of the Possible Impact of a Community Development Proposal</i> |

3.3	Applications in GIScience	Room 316
	Chair – Joshua Bailey	

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| 3:40 | Xuwei Chen | <i>Commute Patterns in Central Texas</i> |
| 4:00 | Joseph Molis | <i>Using a GIS to Predict Sanitary Sewer Overflows</i> |
| 4:20 | Shing Lin | <i>A GIS Study of Ozone Unhealthy Level and Respiratory Disease Prevalence Rate in Children in the Houston Area</i> |

4:45 – 5:00**Door Prize Drawing & Acknowledgements****Room 311**

Co-Chairs: Noah Hopkins & Joshua Bailey