

## **SAMUEL DAVID BRODY**

Professor, Department of Marine Sciences at Galveston  
Department of Landscape Architecture & Urban Planning at College Station  
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### **EDUCATION**

- Ph.D.     **City and Regional Planning, University of North Carolina, Chapel Hill, NC, 2002.**  
Research focus: ecosystem management and collaborative environmental planning.  
Advisors: David Godschalk and Phil Berke.  
Dissertation: *A Model for Ecosystem Management Through Land-Use Planning: Understanding the Mosaic of Protection Across Ecological Systems in Florida.*
- M.S.     **Resource policy and behavior. University of Michigan, Ann Arbor, MI, 1996.**  
Emphasis on resource policy/planning and ecosystem management.
- Graduate Diploma   **Environmental Studies, University of Adelaide, Australia, 1994.**  
Funded through Rotary International Graduate Scholarship.
- B.A.     **Environmental studies and anthropology. Bowdoin College, Brunswick, ME, 1992.**  
*Summa Cum Laude, Phi Beta Kappa.*

### **ACADEMIC POSITIONS**

- 2012 to 2017     ***Co-Director.* Institute for Sustainable Coastal Communities, Galveston Campus.**
- 2009 to present   ***Professor,* Texas A&M University, Galveston and College Station. George P. Mitchell 40' Endowed Chair in Sustainable Coasts.**
- 2009 to present   ***Director.* Center for Texas Beaches and Shores, Texas A&M University, Galveston, TX.**
- 2008 to 2009     ***Acting Director.* Hazard Reduction & Recovery Center. Texas A&M University, College Station, TX.**
- 2006 to 2009     ***Associate Professor.* Texas A&M University, College Station, TX.**
- 2006 to 2008     ***Co-Director.* Center for Texas Beaches and Shores, Texas A&M University, Galveston, TX.**
- 2005 to present   ***Director.* Environmental Planning and Sustainability Research Unit, Texas A&M University, College Station, TX.**

August to December 2007 ***Visiting Scholar.*** Florida Atlantic University, Department of Urban and Regional Planning, Fort Lauderdale, Florida.

2002 to 2006 ***Assistant Professor.*** Texas A&M University, College Station, TX.

1999 to 2001 ***Project Director.*** University of North Carolina, Center for Urban and Regional Studies, Chapel Hill, NC.

1999 to 2001 ***Research Assistant.*** University of North Carolina, Center for Urban & Regional Studies, Chapel Hill, NC.

1998 ***Teaching Assistant.*** University of North Carolina, Department of City and Regional Planning, Chapel Hill, NC

1997 to 1998 ***Project Director.*** Woods Hole Oceanographic Institution, Marine Policy Center, Woods Hole, MA.

1996 to 1997 ***Research Assistant II.*** University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI.

1996 ***Research Assistant II.*** University of Michigan, School of Natural Resources and Environment, Ann Arbor, MI.

#### **PROFESSIONAL EXPERIENCE**

1997 to present ***President.*** Harpswell 10, Inc., Friendswood, TX.

2001 to 2003 ***Consultant.*** Washington/Baltimore Regional 2012 Coalition, Washington, D.C.

1997 ***Coastal Policy Analyst.*** Maine State Planning Office/ME Coastal Program, Augusta, ME.

1996 to 1997 ***Consultant.*** Gulf of Maine Council on the Marine Environment, Augusta, ME.

1995 to 1996 ***Environmental Correspondent.*** The Food Channel, Chicago, IL.

1995 ***Research Analyst.*** Planning Decisions, Inc., Portland, ME.

1993 ***Park Ranger/Environmental Interpreter.*** Canyonlands National Park, UT.

1992 to 1993 ***Paralegal Specialist.*** U.S. Department of Justice: Environmental Enforcement Section, Washington, D.C.

1991 ***Planning Assistant.*** Market Decisions, Inc., Portland, ME.

1990 ***Research Assistant.*** The Chesapeake Bay Foundation, Annapolis, MD.

## FELLOWSHIPS AND ASSOCIATIONS

- 2016 to present *Fellow*. Kinder Institute, Rice University, Houston, TX.
- 2008 to present *Fellow*. Institute for Science, Technology, and Public Policy (ISTPP), Texas A&M University, College Station, TX.
- 2006 to present *Founding Fellow*. Severe Storm Prediction, Education and Evacuation from Disaster (SSPEED) Center Conference, Rice University, Houston, TX.
- 2003 to present *Faculty Fellow*. Hazards Reduction and Recovery Center (HRRC), Texas A&M University, College Station, TX.

## HONORS AND AWARDS

- 2017 TX A&M Presidential Impact Fellow.
- 2016 TX A&M University Regents Professor.
- 2008 Best Paper Award, 2007, *Journal of the American Planning Association*.
- 2007 Award for Outstanding Research, College of Architecture, Texas A&M University, College Station, TX.
- 2004 College Outstanding Achievement Award, College of Architecture, Texas A&M University, College Station, TX.
- 2004 Nominated for the Presidential Early Career Award for Science and Engineering (PECASE), National Science Foundation.
- 2002 Graduate Recruitment Award, Department of Landscape Architecture and Urban Planning, Texas A&M University, College Station, TX.
- 2001 U.S. Environmental Protection Agency (EPA) Science to Achieve Results (STAR) Fellowship Conference Best Paper Award.
- 1997 United States Presidential Management Intern Award.
- 1995/1996 University of Michigan, School of Natural Resources and the Environment Merit Award.
- 1995 University of Adelaide Environmental Achievement Award.
- 1994 to 1995 Rotary International Preserve the Planet Scholar.
- 1992 Bowdoin College – *Phi Beta Kappa*; James Bowdoin Scholar.



## RESEARCH EXPERIENCE

### EXTERNAL GRANTS AND CONTRACTS

- 2016 to 2017 **Principal Investigator.** Kempner Foundation, \$10,000.  
Combining Environmental Protection and Flood Mitigation on the Texas Coast: A Proactive Land Acquisition Framework.
- 2016 to 2017 **Principal Investigator.** Wortham Foundation, \$26,315.  
Coastal Spine Placement on the Upper Texas Coast.
- 2015 to 2020 **Principal Investigator.** National Science Foundation, \$3,598,502.  
Coastal Flood Risk Reduction Program: Integrated, multi-scale approaches for understanding how to reduce vulnerability to damaging events.  
NSF Program for International Research and Education.
- 2014 to 2016 **Principal Investigator.** TX Commission on Environmental Quality, \$173,228.  
Galveston Bay Estuary Program Status and Trends Maintenance Project.
- 2014 to 2016 **Co-Principal Investigator.** National Science Foundation, \$349,725.  
PI: Deborah Thomas; Co-PI: Brian Gerber.  
Enabling the Next Generation of Hazards and Disasters Researchers:  
An Education and Training Proposal.
- 2014 to 2015 **Principal Investigator.** West Galveston Island Homeowner's Association, \$50,000.  
Co-PI: Wesley Highfield.  
An Integrated Assessment of Flood Risk Reduction on the West End of Galveston Island.
- 2013 to 2016 **Co-Principal Investigator.** Rice University Shell Center for Sustainability, \$207,000. PI: Jeffrey Nittrouer; Co-PIs: Jaimie Padgett, Philip Bedient.  
The stress nexus of coastlines: Population development, infrastructure security, and morphological dynamics of the Upper Texas Gulf Coast.
- 2014 to 2014 **Principal Investigator.** Houston Advanced Research Center/USFWS, \$132,146. Co-PI: Wesley Highfield.  
Survey of preferences for Wave-Based Flood Risk Reduction Strategies in Harris County, TX.
- 2013 **Principal Investigator.** National Science Foundation, \$27,230.  
Flood Risk Reduction Colloquium with Delft University, Netherlands.
- 2012 to 2013 **Co-Principal Investigator.** Federal Transportation Agency, \$146,000. PI: Linda Cherrington.  
Transit Climate Change Adaptation Assessment Pilots for the Gulf Coast Region.
- 2011 to 2013 **Principal Investigator.** National Science Foundation, \$345,891. Co-PIs: Wesley Highfield, Michael Lindell.  
Examining the 100-year Floodplain as a Metric of Risk, Loss, and Household Adjustment.
- 2011 to 2013 **Co-Principal Investigator.** NASA, \$398,857. PI: Patrick Louchouart; Co-PIs: Wesley Highfield, Anna Armitage.  
Examining the Relationship Between Land Use Change, Wetland Alteration, and Carbon

Sequestration in the Gulf of Mexico.

- 2011 **Co-Principal Investigator.** TX Council on Environmental Quality, \$136,000. PI: Wesley Highfield.  
Development of an OSSF (Failing on-site septic sewage facilities) Optimization Model for the Dickinson Bayou Watershed.
- 2010 to 2011 **Co-Principal Investigator.** Montgomery County, TX, \$141,879. PI: George Rogers; CO-PIs: Georgianne W. Moore, Jesse Saginore.  
Economic Impact of Lake-Level Reductions on Lake Conroe: Lake Area Property Values, Property Tax Revenues, and Sales Tax Revenues.
- 2009 to 2011 **Principal Investigator.** Houston Advanced Research Center, \$80,000. Co-PI: Wesley E. Highfield.  
Natural and Human Hydrologic Interactions: Development of an Integrated Conceptual Model and Empirical Testing in the Greater Houston –Galveston Region.
- 2009 to 2011 **Co-Principal Investigator.** National Science Foundation, \$374,036. PI: Shannon Van Zandt; Co-PIs: Wesley E. Highfield, Yu Xiao, Walter Peacock.  
Developing a Living Laboratory for Examining Community Resiliency and Recovery After Disaster.
- 2008 to 2009 **Senior Personnel.** National Science Foundation, SGER Award, \$144,674. PI: Shannon Van Zandt; Co-PIs: Wesley E. Highfield, Yu Xiao; Senior Personnel: Walter Peacock, Michael Lindell, Carla Prater. Social Vulnerability and Urban Development Patterns: Impacts on Community Resilience and Recovery.
- 2008 to 2010 **Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Sea Grant Award, \$291,274. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi, June Martin.  
A Coastal Communities Planning Atlas for Decision Makers and Local Residents: Phase II.
- 2007 to 2009 **Co-Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Coastal Services Center, \$299,922. PI: Walter Peacock; Co-PIs: Sammy Zahran, Robert Harris, William Seitz, William Merrell, Arnold Vedlitz.  
Advancing the Resilience of Coastal Localities: Developing, Implementing and Sustaining the Use of Coastal Resilience Indicators.
- 2006 to 2012 **Co-Principal Investigator.** Coastal Coordination Council/TX GLO/NOAA, \$744,000.  
PI: Walter Peacock; Co-PIs: Doug Wunneburger, Forster Ndubisi, June Martin, Michael Lindell, Carla Prater.  
Status and Trends of Coastal Vulnerability to Natural Hazards. Renewable each year for six years.
- 2007 to 2008 **Co-Principal Investigator.** Lower River Colorado Authority (LCRA), \$98,404. PI: Gerard Kyle; Co-PIs: Scott Schafer, James Jeffries, Kokel-Oberrender-Wood Appraisals.  
Analysis of socioeconomic and land use characteristics for LCRA properties.
- 2006 to 2009 **Principal Investigator.** National Park Service, Cooperative Agreement, \$378,946. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi.  
Development of a Land Use Change Early Warning System.

- 2006 to 2008 **Principal Investigator.** National Oceanographic Atmospheric Administration (NOAA), Sea Grant Award, \$388,398. Co-PIs: Walter Peacock, Doug Wunneburger, Forster Ndubisi, June Martin. Developing a Coastal Communities Planning Atlas as an Educational Tool for Decision Makers and Local Residents.
- 2006 to 2008 **Co-Principal Investigator.** USDA, Program of Research on the Economics of Invasive Species Management (PREISM), \$190,956. PI: David Zilberman; CO-PI: Sean B. Cash. Border Enforcement, Importer Behavior, and Trade-Related Invasive Species Risk.
- 2005 to 2006 **Co-Principal Investigator.** National Science Foundation (NSF), SGER, \$96,638. PI: Doug Shaw; Co-PIs: William Neilson, Richard Woodward, Mary Riddel. Perceived Risks and Willingness to Pay for Hurricane Protection.
- 2005 to 2008 **Co-Principal Investigator.** National Science Foundation (NSF), \$500,000. PI: Frederic Park; Co-PIs: Donald House, Steven Smith, Peter Stiller. MRI: Development of Spatially Immersive Visualization Facilities.
- 2004 to 2010 **Principal Investigator.** National Science Foundation (NSF) CAREER Award, \$521,384 (including 3 REU supplements). Modeling Watershed Flooding and Adaptive Flood Management: An Integrative Plan for Research, Teaching, and Learning. A five-year research project examining the relationship between the development of wetlands and coastal watershed flooding.
- 2004 to 2005 **Researcher.** Department of Homeland Security Office of State and Local Government Coordination and Preparedness, \$89,235. Identifying Best Practices for Systems and Equipment Procurement Decisions in Emergency-Responder Organizations.
- 1999 to 2001 **Principal Investigator.** U.S. EPA Science to Achieve Results (STAR) Fellowship, \$100,000. Researched environmental impacts of local policies in Florida. Developed methods to evaluate and spatially analyze plan quality using geographic information systems.
- 2000 to 2001 **Principal Investigator.** Steinwachs Family Foundation, \$5,000. Collaborative Ecosystem Planning in South Florida.
- 1997 to 1999 **Principal Investigator.** Gulf of Maine Council on the Marine Environment, \$25,000. Examining a Network of Coastal and Marine Protected Areas in the Gulf of Maine as an Ecosystem Approach to Management.
- 1998 to 1999 **Principal Investigator.** U.S. NOAA, Office of Ocean and Coastal Resource Management, \$15,000. Using Geographic Information Systems to Map and Analyze Existing Coastal and Marine Protected Areas in the Gulf of Maine.
- 1996 to 1997 **Principal Investigator.** State of Maine, Executive Office, State Planning Office, \$5,000. Examining Stakeholder Perceptions of Marine Protected Areas.

## INTERNAL GRANTS

- 2016 to 2019 **Principal Investigator.** Texas A&M University President's Office, \$1,000,000.  
Support for the Center for Texas Beaches and Shores.
- 2016 to 2019 **Principal Investigator.** Texas A&M University Institute for Advanced Study Faculty Fellowship, \$260,000.
- 2014 to 2017 **Co-Principal Investigator.** Texas A&M University System, Tier One Program, \$300,000.  
PI: Jean Bowman.  
Development of a Multidisciplinary Climate Change Program.
- 2004 to 2005 **Co-Principal Investigator.** College Research and Interdisciplinary Council (CRIC) Research Grant, College of Architecture, Texas A&M University. \$7,500.  
Understanding Organizational and Technological Capabilities in Public and Private Planning Agencies in Texas for Applications of GIS/PSS to Practice and Decision Making.
- 2002 to present **Principal Investigator.** Center for Teaching Excellence, Texas A&M University, Teaching Incentive Grant, \$4,000.  
Development of Case Studies in Environmental Dispute Resolution: Integrating teaching research, and learning. A grant to publish a book of student-written case studies in dispute resolution to be used as a teaching aid in dispute resolution/conflict management courses throughout the University and the United States.
- 2002 to 2003 **Principal Investigator.** College Research and Interdisciplinary Council (CRIC) Grant, College of Architecture, Texas A&M University. \$5,000.  
Examining the Role of Resource-Based Industries in Ecosystem Approaches to Management.
- 2002 **Collaborator.** Vice President for Research Office's Travel Grant, Texas A&M University, \$1,500.  
Identifying Opportunities for Coastal Watershed Management in Bordeaux, France: A Collaborative Initiative. This grant provided funding to travel to Bordeaux and initiate a collaborative research project with Bordeaux 1 University on Coastal Watershed Management.

## FELLOWSHIPS AND SCHOLARSHIPS

- 2003 to 2004 National Science Foundation. Hazards Enabling Fellowship. Three trips to develop research proposals (Woods Hole, MA, Chapel Hill, NC, and Estes Park, CO) and a \$3,000 stipend.
- 2001 to 2002 University of North Carolina, Chapel Hill, NC. Dissertation Fellowship, \$17,000.  
A model for Ecosystem Approaches to Management.
- 1999 to 2002 EPA Science to Achieve Results (STAR) Doctoral Fellowship, \$100,000.  
A Model for Ecosystem Management Through Land Use Planning: Implementing the



Principles of Ecosystem Management in Florida.

1994 Rotary Ambassadorial Graduate Scholarship, \$34,000.  
Graduate study at the University of Adelaide, Australia.

## REFEREED JOURNAL ARTICLES

\*Reja, Md, Brody, S.D., +Highfield, W.E., Newman, G.D. (2017). Hurricane Recovery and Ecological Resilience: Measuring the impacts of wetland alteration post Hurricane Ike on the upper TX coast. *Environmental Management*. 60(6), 1116-1126.

Brody, Samuel, Highfield, W., \*Blessing, R., \*Makino, T., Shepard, C. (2017). Evaluating the Effects of Open Space Configurations in Reducing Flood Damage along the Gulf of Mexico Coast. *Landscape and Urban Planning* 167: 225-231.

+Highfield, W., Brody, S.D. (2017). Determining the Effects of the FEMA Community Rating System Program on Flood Losses in the United States. *International Journal of Disaster Risk Reduction* 21: 396-404.

\*Blessing, Russell, \*Sebastian, A., Brody, S. (2017). Flood Risk Delineation in the U.S.: How much loss are we capturing? *Natural Hazards Review* 18(3): 04017002, DOI: 10.1061/NH.1527-6996.0000242.

+Grover, Himanshu, Brody, S.D., Vedlitz, A. (2017). Understanding Climate Change Risk Perception in the United States. *International Journal of Global Warming* 13 (2), 113-137.

Brody, S.D., \*Wilson, M., Lindell M., +Highfield, W., \*Blessing, R. (2016). Understanding the motivation of residents to voluntarily purchase federal flood insurance. *Journal of Risk Research*. DOI: 10.1080/13669877.2015.1119179.

Yoon, D.K, +Kang, J.E., Brody, S.D. (2016). A measurement of community disaster resilience in Korea. *Journal of Environmental Planning and Management* 59(3): 436-460.

Newman, G., Brody, S. & Smith, A. (Forthcoming). Repurposing Vacant Land Through Landscape Connectivity. *Landscape Journal*.

Brody, S.D., \*Lee, Yoonjeong, +Highfield, Wesley E. (2016). Household adjustment to flood risk: A survey of coastal residents in Texas and Florida. *Disasters* 41 (3), 566-586.

Brody, S.D., \*Sebastian, A., \*Blessing, R., Bedient, P. (2015). Case study results from southeast Houston, Texas: identifying the impacts of residential location on flood risk and loss. *Journal of Flood Risk Management*. DOI:10.1111/jfr3.12184.

Armitage, A., +Highfield, W.E., Brody, S.D., Louchouart, P. (2015). The contribution of mangrove expansion to salt marsh loss in the western Gulf of Mexico. *PLOS One*10(5): e0125404, doi:10.1371/journal.pone.0125404.

Brody, S.D., +Highfield, W., \*Blessing, R. (2015). An Empirical Analysis of the Effects of Land Use/Land Cover on Flood Losses along the Gulf of Mexico Coast from 1999 to 2009. *J. of*

*the American Water Resources Association (JAWRA)* 51(6): 1556-1567,  
DOI: [10.1111/1752-1688.12331](https://doi.org/10.1111/1752-1688.12331).

- +Highfield, W., Brody, S.D., \*Blessing, R. (2014). Measuring the Impact of Mitigation Activities on Flood Loss Reduction at the Parcel Level: The Case of the Clear Creek watershed along the upper Texas coast. *Natural Hazards* 72(2): 687-704, DOI: 10.1007/s11069-014-1209-1.
- Brody, S.D., +Blessing, R., \*Sebastian, A., Bedient, P. (2014). Examining the impact of land use/land cover characteristics on flood losses. *Journal of Environmental Planning and Management* 57(9): 1252-1265.
- +Highfield, W., Brody, S.D. (2013). Evaluating the Effectiveness of Local Mitigation Activities in Reducing Flood Losses. *Natural Hazards Review* 14(4), 229–236.
- Brody, S.D. (2013). The Characteristics, Causes, and Consequences of Sprawling Development Patterns in the United States. *Nature Education Knowledge* 4(5): 2.
- Brody, S.D., +Blessing, R., \*Sebastian, A., Bedient, P. (2013). Delineating the Reality of Flood Risk and Loss in Southeast, Texas. *Natural Hazards Review* 14:89-97.
- Brody, S.D., +Highfield, W. (2013). Open Space Protection and Flood Losses: A National Study. *Land Use Policy* 32:89-95.
- Brody, S.D., \*Kim, HJ, \*Gunn, J. (2013). Examining the Impacts of Development Patterns on Flooding in the Gulf of Mexico. *Urban Studies* 50(4): 789-806.
- + Highfield, W.E., \*Norman, S., Brody, S.D. (2012). Examining the 100-Year Floodplain as a Metric of Risk, Loss, and Household Adjustment. *Risk Analysis* 33(2), 186-191.
- Brody, S.D., Peacock, W., \*Gunn, J. (2012). Ecological Indicators of Resiliency and Flooding Along the Gulf of Mexico. *Ecological Indicators* 18: 493-500.
- Van Zandt, S., Peacock, W., +Henry, D., +Grover, H., +Highfield, W., Brody, S.D. (2012). Mapping Social Vulnerability to Enhance Housing and Neighborhood Resilience. *Housing Policy Debate* 22(1): 29-55.
- Brody, S.D., \*Gunn, Josh, + Highfield, W.E., Peacock, W.G. (2011). Examining the Influence of Development Patterns on Flood Damages along the Gulf of Mexico. *Journal of Planning and Education Research* 31(4): 438-448.
- Brody, S.D., Grover, H., Vedlitz, A. (2011). Examining the Willingness of Americans to Alter Behavior to Mitigate Climate Change. *Climate Policy* 11: 1-22.
- +Tang, Z., Brody, S.D., Li, R., Quinn, C., Zhao, N. (2011). Examining Locally-Driven Climate Change Policy Efforts in Three Pacific States. *Ocean & Coastal Management* 54: 415-426.
- Brody, S.D., \*Grover, H., Vedlitz, A., Lindquist, E. (2010). Examining Climate Change Mitigation and Adaptation Behaviors among State and Local Public Sector Organizations in the United States. *Local Environment* 15(6): 591- 603.

- +Tang, Z., Brody, S.D., Quinn, C., Chang, L. (2010). Moving from Agenda to Action: Evaluating Local Climate Change Action Plans. *Journal of Environmental Planning and Management* 53(1): 41-62.
- Zahran, S., Brody, S.D., \*Highfield, W., Vedlitz, A. (2010). Nonlinear Incentives, Plan Design, and Flood Mitigation: The Case of the Federal Emergency Management Agency's Community Rating System. *Journal of Environmental Planning and Management* 53(2): 219-239.
- Brody, S.D., \*Kang, Jung Eun, \*Bernhardt, S.P. (2010). Identifying Factors Influencing Flood Mitigation at the Local Level in Texas and Florida: the Role of Organizational Capacity. *Natural Hazards* 52:167-184, DOI 10.1007/s11069-009-9364-5.
- Brody, S.D., \*Kang, Jung Eun, Zahran, S., \*Bernhardt, S.P. (2009). Evaluating Local Flood Mitigation Strategies in Texas and Florida. *Built Environment* 35(4): 492-515.
- Baker, Justin, Shaw, W.D., Bell, D., Brody, S.D., Neilson, W. (2009). Explaining Subjective Risks of Hurricanes and the Role of Risks in Intended Moving and Location Choice Models. *Natural Hazards Review* 10(3): 102-112.
- Zahran, S., Weiler, S., Brody, S., Lindell, M., +Highfield, W. (2009). Modeling National Flood Insurance Policy Holding at the County Scale in Florida, 1999-2005. *Journal of Ecological Economics* 68(10): 2627-2636.
- Zahran, S., Shelly, T., Peek, L., Brody, S.D. (2009). Natural Disasters and Social Order: Modeling Crime Outcomes in Florida. *International Journal of Mass Emergencies and Disasters* 27(1): 26-52.
- \*Tang, Zhenghong, Brody, S.D. (2009). Linking Planning Theories with Factors Influencing Local Environmental-Plan Quality. *Environment and Planning B* 36: 522-537.
- Zahran, S., Brody, S.D., +Maghelal, P., Prelog, A., Lacy, M. (2009). Cycling and Walking: Explaining the Spatial Distribution of Healthy Modes of Transportation in the United States. *Transportation Research Journal D* 13: 462-470.
- Brody, Samuel D., Zahran, Sammy, \*Highfield, Wesley, \*Bernhardt, Sarah, and Vedlitz, Arnold. (2009). Policy Learning for Flood Mitigation: a longitudinal assessment of CRS activities in Florida. *Risk Analysis* 29(6): 912-929.
- \*Tang, Z., Bright, E., Brody, S. D. (2009). Evaluating California Local Land Use Plans' Environmental Impact Reports. *Environmental Impact Assessment Review* 29: 96-106.
- Zahran, Sammy, Brody, S.D., Vedlitz, A., Lacy, M., and Schelly, C. (2008). Greening Local Energy: Explaining the Geographic Distribution of Household Solar Energy Use in the United States. *Journal of the American Planning Association* 74(4): DOI 10.1080/01944360802310594.
- Zahran, S., Brody, S. D., Vedlitz, A., \*Grover, H, and \*Miller, C. (2008). Explaining Local Commitment to Climate Change Policy in the United States. *Environment and Planning C* 26(3): 544-562.

- Brody, Samuel D., Zahran, Sammy, \*Grover, Himanshu, and A. Vedlitz. (2008). A Spatial Analysis of Local Climate Change Policy in the U.S.: Risk, Stress, and Opportunity. *Landscape and Urban Planning* 87(1): 33-41.
- Zahran, S., Brody, S.D., Peacock, W.G., and Vedlitz, A., \*Grover, H. (2008). Social Vulnerability and The Natural and Built Environment: A Model of Flood Casualties in Texas, 1997-2001. *Disasters* 32(4): 537-60.
- Brody, S.D., Davis, Stephen E. III, \*Highfield, Wesley E. and \*Bernhardt, Sarah. (2008). A Spatial-Temporal Analysis of Wetland Alteration in Texas and Florida: Thirteen Years of Impact Along the Coast. *Wetlands* 28(1): 107-116.
- Zahran, S., Peek, L., Brody, S.D. (2008). Youth Mortality by Forces of Nature. *Children, Youth, and Environments* 18(1): 371-388.
- \*Tang, Z., Lindell, M., Prater, C., Brody, S. D. (2008). Measuring tsunami hazard planning capacity on the U.S. Pacific coast. *Natural Hazards Review* 9(2): 91-100.
- Zahran, S., Hastings, D., Brody, S.D. (2008). Rationality, Inequity, and Civic Vitality: The Distribution of Treatment, Storage, and Disposal Facilities in the Southeast. *Society and Natural Resources* 21(3): 179-196.
- Zahran, S., \*Grover, H., Brody S.D., and Vedlitz, A. (2008). Risk, Stress, and Capacity: Explaining Metropolitan Commitment to Climate Protection. *Urban Affairs Review* 43: 475-496.
- Brody, S.D., Zahran, S, Vedlitz, A., and \*Grover, H. (2008). Examining the Relationship between Physical Vulnerability and Perceptions of Global Climate Change in the U.S. *Environment and Behavior* 40(1): 72-95.
- Brody, S.D., Zahran, S., Maghelal, P., \*Grover, H., and \*Highfield, W. (2007). The rising costs of floods: Examining the impact of planning and development decisions on property damage in Florida. *Journal of the American Planning Association* 73(3): 330-345.  
**\*\*Best Paper Award for 2007.**
- Brody, S.D., Zahran, S., \*Highfield, Wesley E., \*Grover, H., Vedlitz, A. 2008. Identifying the Impact of the Built Environment on Flood Damage in Texas. *Disasters* 32(1): 1-18.
- Brody, S.D. and Zahran, S. Linking Particulate Matter and Sulfur Concentrations to Air Pollution Annoyance: Problems of Measurement, Scale, and Control. (2007). *International Journal of Epidemiology*, 36(8): 820-823.
- Brody, Samuel D., \*Wesley E. Highfield, \*Hyung-Cheal Ryu, \*Laura Spanel-Weber. (2007). Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida. *Natural Hazards* 40(2): 413-428.
- \*Highfield, Wesley E. and Samuel D. Brody. (2006). The Price of Permits: Measuring the Economic Impacts of Wetland Development on Flood Damages in Florida. *Natural Hazards Review* 7(3): 23-30.

- Brody, S.D., \*Himanshu Grover, \*Sara Bernhardt, \*Zhenghong Tang, \*Bianca Whitaker, and \*Colin Spencer. (2006). A Multi-Criteria, Spatial Site Suitability Analysis for Oil and Gas Exploration in Texas State Coastal Waters. *Environmental Management* 38:597–617.
- Zahran, Sammy, Brody, S.D., \*Grover, H., and Vedlitz, A., (2006) Climate Change Vulnerability and Policy Support. *Society and Natural Resources* 19(9):771–789.
- Brody, S.D. and \*Hyung-Cheal Ryu. (2006). Measuring the impact of a graduate course in sustainable development: transforming behavior through authentic learning environments. *Environmental Education Research* 12(2): 179-199.
- Brody, S.D., \*Virginia Carrasco, and \*Wesley E. Highfield. (2006). Measuring the Adoption of Local Sprawl Reduction Planning Policies in Florida. *Journal of Planning Education and Research* 25:294-310.
- \*Hyung-Cheal Ryu and S.D. Brody. Can Higher Education Influence Sustainable Behavior? (2006). Examining the Impacts of a Graduate Course on Sustainable Development Using Ecological Footprint Analysis. *International Journal of Sustainability in Higher Education* 7(2): 158-175.
- Brody, S.D., Cash, S., \*Thornton, S. and \*Yust, J. (2006). Examining Motivations for Resource-Based Industry to Participate in Collaborative Ecosystem Management Initiatives. *Forest Policy and Economics* 8:123-134.
- Brody, S.D., \*Wesley E. Highfield, and \*Sara Thornton. (2006). Planning At the Urban Fringe: An Examination of the Factors Influencing Nonconforming Development Patterns in Southern Florida. *Environment and Planning B* 33: 75-96.
- Brody, S.D. and \*Wesley E. Highfield. Does Planning Work? Testing the Implementation of Local Environmental Planning in Florida. (2005). *Journal of the American Planning Association* 71(2): 159-175.
- Brody, S.D., \*Highfield, W. & Peck, M. (2005). Exploring the Mosaic of Perceptions of Water Quality Across Watersheds in San Antonio, TX. *Landscape and Urban Planning* 73: 200-214.
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\*Denotes Student

+ Denotes Former Student

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\*Denotes Student

## BOOKS & BOOK CHAPTERS

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- \*Mobley, William, Cash, Sean, Brody, Samuel. The Role of Corporate Stakeholders in Ecosystem Management Initiatives. In S. Moore, ed. 2016. *Pragmatic Sustainability, 2<sup>nd</sup> Edition*. Abingdon, UK: Routledge Press.
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- Samuel D. Brody, +Wesley E. Higfield, William Merrell, \*Yoonjeong Lee. Forthcoming. (Forthcoming). Recovery versus Protection-Based Approaches to Flood Risk Reduction: Working towards a framework for more effective mitigation in the United States. In Shannon Van Zandt and Water Peacocks (Eds). *Handbook of Planning for Disaster Resilience*. New York: Routledge Press.
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- Brody, S.D. and Gunn, Joshua. (2012). Examining Environmental Factors Contributing to Community Resilience along the Gulf of Mexico Coast, pgs. 160-177. In Naim Kapucu, Christopher Hawkins, and Fernando Rivera (Eds.). *Disaster Resiliency: Interdisciplinary Perspectives*. New York: Routledge Press.
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- Cash, S.B. and Brody, S.D. (2010). “Bringing corporate stakeholders to the table in collaborative ecosystem.” In Steven A. Moore (ed.). *Pragmatic Sustainability*. Abingdon, UK: Routledge Press.
- Brody, S.D. (2008). *Ecosystem Planning in Florida: Solving Regional Problems Through Local Decision Making*. Aldershot, UK: Ashgate Press, ISBN 0 7546 7249 2.
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- Brody, S.D. (2005). Sustainable planning at the urban fringe: examining the factors influencing nonconforming development patterns in southern Florida. Pgs. 997-1006. In E. Beriatos, H. Coccossis, and A. Kungolos (eds). *Sustainable Planning and Development II*. Southampton, UK: WIT Press.
- Brody, S.D. (2003). Does Biodiversity Matter? Implementing the Principles of Ecosystem Management in Florida. Pgs. 223-233. In E. Beriatos, C.A. Brebbia, H. Coccossis, and A. Kungolos (eds). *Sustainable Planning and Development*. Southampton, UK: WIT Press.

## CONFERENCE PROCEEDINGS

- Brody, S.D. & Wesley E. Highfield. (2006). Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida: Causes, Consequences, and Policy Implications. In *Proceedings for the International Disaster Reduction Conference*. August 27-September 1, Davos, Switzerland. Davos: Swiss Federal Research Institute.
- Brody, S.D., Carrasco, V. & Highfield, W. (2003). Evaluating Ecosystem Management Capabilities at the Local Level in Florida: A Policy Gap Analysis Using Geographic Information Systems. In *The Network Society: The New Context for Planning*. Proceedings from the ACSP-AESOP Third Joint Congress, July 8-12, 2003, Leuven, Belgium.
- Brody, S.D. & Nicholson, B. (1999). Marine Protected Areas in the Gulf of Maine: Providing a Framework for an Ecosystem Approach to Management. In David Harmon (ed.), *On the Frontiers of Conservation: Proceedings of the Tenth Conference on Research and Resource Management in Parks and on Public Lands*. George Wright Society, Hancock, MI.

Brody, S.D. & Fenton, D. (1998). Marine Protected Areas in the Gulf of Maine: Building a Framework for an Ecosystem Approach to Management. In Burt, M.D.B. and Well, P.G. (eds.), *Proceedings of the Maritime Atlantic Ecozone Science Workshop* held in St. Andrews, NB.

## **BOOK REVIEWS**

Manning, Richard. (2001). *An Inside Passage: A Journey Beyond Borders* Island Press: Washington, D.C. Reviewed in *Urban Land* 60(5), 30, 2001.

Wondolleck, J. and Yaffee, S. (2000). *Making Collaboration Work: Lessons from Innovation in Natural Resource Management*. Island Press: Washington, D.C. Reviewed in *Urban Land* 59(11), 38, 2000.

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## **INVITED LECTURES, SEMINARS, and WORKSHOPS**

- 2016 Causes, Consequences, and Policy Implication of Flooding in the U.S. JSPS-NOW Joint Seminar- Challenges in Coastal Flood Risk Reduction. Tokyo Institute of Technology. December 12, 2016. Tokyo, Japan.
- 2016 Urban Land Use Change and Flooding: How Visual and Spatial Tools Can Help Communities Become More Resilient. Kinder Institute Research Seminar Series. November 29, 2016. Houston, TX.
- 2016 Using Spatial Data to Identify Flood Risk Reduction Measures. TX Windstorm Insurance Association. November 16, 2016. Austin, TX.
- 2016 Crafting a New Agenda for Flood-Resilient Policies in the United States. Resiliency and Restoration Workshop. Ecology and Environment, Inc. October 11, 2016. Blue Mountain Lake, NY.
- 2016 Effective Flood Risk Reduction on the Texas Coast: the role of the Center for Texas Beaches and Shores. Galveston Coastal Legislative Tour. September 9, 2016. Galveston, TX.
- 2016 Flooding in Meyerland, TX: causes, consequences, and mitigation alternatives. Citizen Solutions to Houston Flooding. August 2, 2016. Meyerland, TX.

- 2016 Testimony on surge suppression in Galveston Bay. Joint TX State Legislative Committee to Study a Coastal Barrier System. TAMUG. April 11, 2016. Galveston, TX.
- 2016 The Coastal Atlas. Bay Area Houston Economic Partnership General. Membership Meeting. April 6, 2016. Seabrook, TX.
- 2016 NSF Flood Risk Reduction Program: A U.S.-Dutch Research & Education Partnership. Galveston Bay & Surrounding Area Coastal Resiliency & Storm Surge Workshop. April 5<sup>th</sup>, 2016. Houston, TX.
- 2016 Rising Waters: Crafting a New Agenda for Flood Resilient Policies in the United States. Delaware Environmental Institute, University of Delaware. March 10, 2016. Newark, DE.
- 2016 Spatial Analytical Approaches to identifying flood risk mitigation techniques in Galveston Bay. University of Amsterdam, Institute for Environmental Studies. March 2, 2016. Amsterdam, Netherlands.
- 2016 The NSF PIRE Program on Flood Risk Reduction. Risk Reduction Workshop. Delft University. February 29, 2016. Delft, Netherlands.
- 2016 State of the Bay: The Future of Preservation of Galveston Bay and an Introduction to the Texas Coastal Atlas for Galveston Bay. State of the Bay Symposium. January 14, 2016. Galveston, TX. With Stuart Carlton, Helen Walters, and William Mobley.
- 2015 The Texas Coastal Atlas and Collaborative Data Sharing. Houston Galveston Area Council (HGAC), GIS Working Group. December 2, 2015. Houston TX.
- 2015 Understanding Flood Risk with the Galveston Bay Coastal Web Atlas. Galveston Chamber of Commerce. October 8, 2015. Galveston, TX. With Bill Merrell, Len Waterworth, and Will Mobley.
- 2015 Flood Risk Reduction Program for the Houston-Galveston Region. River Oaks Breakfast Club. October 6, 2015. Houston, TX. With Bill Merrell and Len Waterworth.
- 2015 Flooding and Coastal Urban Resilience: The Houston-Galveston Region. Clemson University, Department of Planning, Development, and Preservation. Urban Resilience Speaker Series. September 24, 2015. Clemson, SC.
- 2015 The Coastal Web Atlas and Storm Surge Suppression. IMAC-Bay Area Houston Economic Partnership (BAHEP), International Maritime Advisory Committee. September 17, 2015. Clear Lake, TX.
- 2015 What Works: the cost savings of flood mitigation techniques. Preparing for Change: Building Resilient Coastal Communities workshop. The Nature Conservancy. August 17, 2015. Aransas Pass, TX.
- 2015 Flood Mitigation: What Works and What Doesn't. Preparing for Change: Building Resilient Coastal Communities Workshop. April 10, 2015. Pensacola, FL.
- 2015 Development, Sprawl, and Resilient Coastal Communities. *Houston of Tomorrow: Building a Resilient Coastal City*. Glasscock School of Continuing Studies, Rice University. March 25,

2015. Houston TX.
- 2015 Using Spatial Analysis to Assess Flood Risk and Reduction in Coastal Areas. GEOSAT Seminar Series, TX A&M University. March 24, 2015. College Station.
- 2015 Reducing flood risk in the Houston-Galveston region. Seabrook Rotary Club. February 19, 2015. Seabrook, TX.
- 2015 Modeling Scenarios for Flood Loss Reduction in Escambia County, FL. Webinar for Escambia County and The Nature Conservancy. February 9, 2015. With Wesley Highfield.
- 2014 Influence of Development Patterns on Flood Damages. General Land Office Coastal Resiliency Forum. December 12, 2014. Nassau Bay, TX.
- 2014 Analysis of Flood Risk: West Galveston Island, TX. Bermuda Beach Homeowner's Association meeting. October 25, 2014. Moody Gardens Hotel, Galveston Island, TX.
- 2014 Reducing Flood Risk in the Houston-Galveston Region. October 1, 2014. Delft University, Netherlands.
- 2014 Analysis of Flood Claims and Policies on the Galveston Island West End. West Galveston Island Homeowner's Association. Sept. 20, 2014. Galveston Country Club, Galveston, TX.
- 2014 Evaluating the Flood Loss Effectiveness of the Community Rating System. FEMA CRS Task Force meeting. September 11, 2014. Boulder, CO.
- 2014 Coastal Resiliency in TX: Pointing the way to more effective mitigation in the future. Texas State Legislature, Joint Committee Hearing for Land and Resource Management and Insurance on Coastal Resiliency. September 9, 2014. Austin, TX.
- 2014 Decreasing Flood Damage Through Effective Mitigation. Keeping your Head Above Water: Flood insurance, mitigation, and the Community Rating System Workshop. University of Florida, IFAS Extension. April 24, 2014. Okaloosa, FL.
- 2013 Evaluating the Effectiveness of Mitigation Strategies. Regional Floodplain Management Workshop. November 13, 2013. Largo, FL.
- 2013 Flood Mitigation: What Works and What Doesn't. Preparing for Change: Building Resilient Coastal Communities Workshop. October 4, 2013. Punta Gorda, FL.
- 2013 The TX Coastal Communities Planning Atlas. TX General Land Office. November 12, 2013.
- 2013 Floods, Hurricanes, and other Natural Hazards. Davinci Experience Science Camp. July 11, 2013. Brunswick, Maine.
- 2013 Evaluating the Effectiveness of Flood Mitigation Strategies. Community Rating System Workshop: Reducing flood insurance costs through comprehensive floodplain management. June, 18, 2013. Apalachicola NERR, Eastpoint, FL.
- 2012 Economic Values of Floodplain Ecosystems: The role of natural functions in reducing loss. University of Houston at Clear Lake. October 7, 2012. Clear Lake, TX.

- 2012 TX A&M at Galveston Summer Commencement Speech. August 11, 2012. Galveston, TX.
- 2012 Coastal Levees, Development, and Flood Mitigation: Reducing Vulnerability through Land Use Policy. National Research Council, Committee on Levees and the NFIP: Improving Policies and Practices. May 10, 2012. Sugarland, TX.
- 2012 Landscape Planning for Ecosystem Services: A Boundary Spanning Problem. Ecosystem Science and Management. March 8, 2012. Texas A&M University, College Station, TX.
- 2012 Building Resilient Communities: Implications for Texas. Chancellors' Century Council Annual Meeting. February 24, 2012. Galveston, TX.
- 2012 Causes and Consequences of Flooding in the United States. Eastern Carolina University Lecture Series. February 9, 2012. Greenville, NC.
- 2011 Research on the Impacts of the Community Rating System on Flood Risk Management. NAFSMA Annual Meeting. October 11, 2011. St. Petersburg, FL.
- 2011 Land Use Planning for Ecosystem Services. Galveston Bay Watershed Ecosystem Services Planning Workshop. September 27, 2011. The Woodlands, TX.
- 2011 Texas Coastal Communities Planning Atlas: Preparing Communities for Coastal Hazards. Showcase of NSF-Funded Hazards Research. September 7, 2011. Harte Senate Office Building Washington, D.C.
- 2011 Texas Coastal Communities Planning Atlas: Preparing Communities for Coastal Hazards. National Science Foundation Research Expo. September 6, 2011. National Science Foundation, Arlington, VA.
- 2011 Coastal Community Atlas. West Galveston Island Property Owners Association. August 20, 2011. Galveston Island, TX.
- 2011 Green Cities and Natural Hazards. Green Land and Water Management Institute, Pusan National University. July 22, 2011. Pusan, Korea.
- 2011 Coastal Flooding and Resiliency: Building Safer Communities. June 29, 2011. University of Houston-Clear Lake, Clear Lake, TX.
- 2011 Evaluating the Effectiveness of the FEMA Community Rating System. FEMA CRS Weighting Forum. June 6, 2011. Philadelphia, PA.
- 2011 Introduction to the Concepts of Coastal Resiliency. 2011 Coastal Resiliency Workshop. May 27, 2011. TX A&M University, Galveston, TX.
- 2011 Evaluating the Effectiveness of the FEMA Community Rating System. May 24, 2011. FEMA Mitigation Division, Crystal City, VA.
- 2011 Landscape Planning and Analysis: Mapping Policy, Perceptions, and Policy Implementation. April, 5, 2011. TAMU Department of Ecosystem Science and Management, College Station, TX.

- 2011 Development Intensity and Flood Loss on the Gulf Coast: Causes, Consequences, and Policy Implications. April 1, 2011. Rice University, Department of Engineering.
- 2011 Factors Influencing Flood Loss: Development, Risk, and Mitigation on the Gulf Coast. Cascading Disasters and Resilience to Hurricanes Workshop. March 25, 2011. Rice University, Houston, TX.
- 2011 Opening Remarks. National Ocean Science Bowl. April 28, 2011. Galveston, TX.
- 2011 Advancing Coastal Resilience. Indicators of Community Well Being Workshop. March 8, 2011. Hollings Marine Lab, Charleston, SC.
- 2010 Environmental Planning and Analysis: Mapping, Perceptions, and Policy Implementation. October 9, Spatial Sciences Laboratory, TX A&M University, College Station, TX.
- 2010 Making Maps with the Coastal Atlas. September 23, Cline Elementary, Friendswood ISD, Friendswood, TX.
- 2010 Evaluating the Effectiveness of the FEMA CRS Program. April 23, FEMA Mitigation Division, FEMA Headquarters, Crystal City, VA.
- 2010 Decision-Making with the Coastal Atlas. April 21, Galveston GIS Consortium, Galveston, TX.
- 2010 Coastal Atlas Online Workshop. March 3, Sponsored by TX Sea Grant.
- 2010 Ecosystem Planning and Spatial Analysis. March 11, RLEM 410, Department of Ecosystem Science and Management, TX A&M University, College Station, TX.
- 2009 Flood Damage in Florida. October 30, Florida A&M University, Environmental Sciences Institute, Tallahassee, FL.
- 2009 Land Use Change on the Coast: causes, consequences, and policy implications. Southern Marine Laboratory Association Annual Meeting. April, 29, Smithsonian Environmental Research Center, Edgewater, MD.
- 2009 Land Use Change on the Texas Coast. Marine Research Seminar Series. February 13, Texas A&M University- Galveston.
- 2009 The Coastal Community Planning Atlas. Hazard Reduction and Recovery 20<sup>th</sup> Anniversary Workshop, January 31, Texas A&M University-College Station.
- 2009 Developing a Coastal Communities Planning Atlas for Texas. Given by Himanshu Grover, Galveston State of the Bay Symposium, January 13, Galveston, TX.
- 2009 Flood Mitigation through the FEMA Community Rating System. FEMA CRS Task Force, January 13, Houston, TX.
- 2008 Geographic Information Systems and the Hazard Reduction and Recovery Center. GIS Day, University Libraries Map and GIS Collections Services, November 11, Texas A&M University, College Station, TX.

- 2008 Developing a Coastal Communities Planning Atlas. Texas Coastal Applied Research Review Team Meeting. June, 17, Texas A&M University, College Station, TX.
- 2008 Examining the Impact of the Built Environment on Flooding in Coastal Texas and Florida. Harte Research Institute for Gulf of Mexico Studies, Texas A&M- Corpus Christi. March 28, Corpus Christie, TX.
- 2008 Developing a Coastal Communities Planning Atlas. City of Galveston. March 24, Galveston, TX.
- 2008 The Rising Cost of Floods: Examining the Impact of Wetland Alteration on Flooding. League o Women's Voters, Clean Water Act Forum. March 14, Houston, TX.
- 2008 Landscape Planning & Analysis: Mapping Policy, Perceptions & Policy Implementation. Renewable Natural Resources (RNER) 410. March 6, Texas A&M University, College Station, TX.
- 2008 The Rising Cost of Floods: Examining the Impact of Planning and Development Decisions on Flooding. NOAA Annual Ocean and Coastal Program Manager's Meeting. February 27, Washington, D.C.
- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Gulf of Mexico Alliance Annual Meeting. December 11, Corpus Christi, TX.
- 2007 Explaining Local Commitment to Climate Change Policy in the United States. South Florida Water Management District. November 16, West Palm Beach, FL.
- 2007 Coastal Flooding in Florida. Florida Atlantic University, Florida Atlantic Planning Society. November 14, Fort Lauderdale, FL.
- 2007 Examining the Relationship between Wetland Alteration and Coastal Watershed Flooding in Texas and Florida. University of North Carolina at Chapel Hill, Department of City and Regional Planning, Chapel Hill, North Carolina.
- 2007 Linking Wetland Alteration to Coastal Flooding in Texas and Florida. 10<sup>th</sup> Annual Southern & Caribbean Regional Coastal Managers Meeting. November 5-8, Lafayette, LA.
- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Houston Advanced Research Council, Woodlands, TX.
- 2007 Linking Wetland Alteration to Coastal Flooding: Predictors, consequences, and policy implications. Bayou Preservation Association, Houston, TX.
- 2007 Landscape Planning & Analysis: Mapping policy, perceptions, and policy implementation. Renewable Natural Resources (RNER) 410, Texas A&M University, College Station, TX.
- 2007 Understanding the Relationship Between Wetland Alteration and Coastal Flooding. Texas General Land Office, Austin, TX.
- 2007 Estimating Flood Damage in Texas: Predictors, consequences, and policy implications.



- Department of Engineering, Rice University, Houston, TX. Bush School of Government, TX A&M University, College Station, TX.
- 2007 Estimating Flood Damage in Texas: Predictors, consequences, and policy implications. Department of Engineering, Rice University, Houston, TX.
- 2006 Spatial Analysis in Environmental Planning. Spatial Sciences Lab, Introduction to Spatial Sciences. Texas A&M University, College Station, TX.
- 2006 Environmental Planning: Principles and Practices. PLAN 365. Texas A&M University, College Station, TX.
- 2006 Explaining Local Commitment to Climate Change. Environmental Research and Studies Center University of Alberta, Edmonton, Alberta.
- 2006 Wetland Alteration in Galveston Bay, Texas. Galveston Bay Estuary Project (GBEP), Clearwater, TX.
- 2005 Landscape Planning and Spatial Analysis. Renewable Natural Resources (RNER) 410. Texas A&M University, College Station, TX.
- 2005 The Role of Industry in Managing Ecosystems. Sustainable Development Seminar Series. University of Texas.
- 2004 Introduction to Environmental Planning. PLAN 365. Texas A&M University, College Station, TX.
- 2004 Ecosystem Planning and Management. RLEM 481. Texas A&M University, College Station, TX.
- 2003 Watershed Planning and Management. Department of Engineering Sustainability Seminar Series. Texas A&M University, College Station, TX.
- 2003 Ecosystem Planning. Rangeland Ecology and Management Seminar Series. Texas A&M University College Station, TX.
- 2003 Evaluating Ecosystem Management Capabilities at the Local Level in Florida. Program on Conflict and Dispute Resolution Colloquium. Texas A&M University, College Station, TX.
- 2002 Watershed Management and Environmental Planning in the United States. GISECOBAG, Bordeaux University 1 Meeting. Bordeaux, France.
- 2002 Economy and Sustainable Planning. College of Natural Resources, Environmental Policy Seminary Series. University of California at Berkeley, Berkeley, CA.
- 2002 The Role of Industry in Ecosystem Approaches to Management. Sustainable Seminar Series. University of Texas, Austin, TX.

## CONFERENCE PRESENTATIONS

- 2016 The Galveston Bay Region as an International Test Bed for Flood Risk Reduction. Robert Whalen, Sam Brody, Bill Merrell. 8th Annual Conference on Hurricanes, Major Disasters, Coastal Protection and Rapid Recovery in Texas and the Gulf Coast Region. University of Houston. August 5, 2016. Houston TX.
- 2016 NSF PIRE Flood Risk Reduction Program: A U.S.-Dutch Research and Education Partnership AVOIDING DISASTERS CONFERENCE: How to Reduce Impacts from the Next Big Storm. Rice University, April 26, 2016. Houston, TX.
- 2016 NSF Flood Risk Reduction Program: A U.S.-Dutch Research & Education Partnership. Galvesto Bay & Surrounding Area Coastal Resiliency & Storm Surge Workshop. April 5th, 2016. Houston, TX.
- 2016 The National Science Foundation PIRE Program on Flood Risk Reduction. Risk Reduction Workshop. Delft University. Feb. 29, 2016. Delft, Netherlands.
- 2016 State of the Bay: The Future of Preservation of Galveston Bay and an Introduction to the Texas Coastal Atlas for Galveston Bay by Sam Brody, Stuart Carlton, Helen Walters, William Mobley. State of the Bay Symposium. January 14, 2016. Galveston, TX.
- 2016 NSF PIRE Flood Risk Reduction Program: A U.S.-Dutch Research and Education Partnership AVOIDING DISASTERS CONFERENCE: How to Reduce Impacts from the Next Big Storm. Rice University, April 26, 2016. Houston, TX.
- 2015 Measuring the Effect of the FEMA Community Rating System Program on Flood Losses across the United States. With Wesley Highfield. ACSP Conference. October 22, 2015. Houston, TX.
- 2015 Flooding and Coastal Resiliency: The Houston-Galveston Region. Annual TX APA Chapter Stat Planning Conference. October 8, 2015. Galveston, TX.
- 2015 Examining Flood Risk, Loss, and Policy in the Clear Creek Watershed. With Russell Blessing. World Environmental and Water Resources Congress. May 20, 2015. Austin, TX.
- 2014 Predicting Urban Growth in Vulnerable Coastal Environments. Shell Center for Sustainability Workshop: How Sustainable is the Texas Coast? Are we in a "state of denial"? October 29, 2014. Rice University, Houston, TX.
- 2014 Bridging Campuses: How to teach in Multi-Classroom Environments. College of Architecture Research Symposium: Natural, Built, Virtual. October 27, 2014. Texas A&M University, College Station, TX.
- 2014 Coastal Resilience in Texas. Coastal Resilience Conference 2014, Living on the Edge: Strategies for Building and Preserving Resilient Coastal Communities. October 9, 2014. Galveston, TX.
- 2014 Evaluating the effectiveness of the Community rating system: A comparative analysis. With Wes Highfield. Association of State Floodplain Managers Annual Conference- making room for floods and fish. June 3, 2014. Seattle, WA.
- 2014 Achieving Higher Standards to Promote Responsible Floodplain Management: a local, state and

- federal perspective. URS Showcase. Association of State Floodplain Managers Annual Conference- making room for floods and fish. June 3, 2014. Seattle, WA.
- 2014 Floodplain Management in TX: Pointing the Way to More Effective Mitigation in the Future. TX Floodplain Managers Association Annual Conference, Mike Howard Lectureship, May 28, 2014. Irving, TX.
- 2013 Influence of the built environment on flooding. Flood risk reduction colloquium. July 24, 2013. Delft University, Netherlands.
- 2013 Policies and Practices for Flood Mitigation in Texas and the U.S. Plenary speech. TX Flood Managers Association Annual Conference. May 23, 2013. Sugarland, TX, Plenary speech.
- 2013 Policies and Practices for Flood Mitigation in the U.S.: How much could we save? Keynote speech. Florida Flood Managers Association Annual Conference. April 11, 2013. St. Petersburg, FL, Keynote Speech.
- 2013 Texas Planning Schools and Sustainable Community Development. TX American Planning Association Conference. October 4, 2013. Galveston, TX.
- 2013 Examining Flood Losses Along the Gulf of Mexico Coast. Conference on Hurricane Ike 5 Years Later. Rice University SSPEED Center. September 25, 2013. Houston, TX
- 2012 The TX Coastal Planning Atlas and Storm-water Runoff Modeling. Planning for Sustainable Coastal Communities Symposium. Texas A&M University at Galveston. December 6, 2012. Galveston, TX.
- 2012 Determining the Economic Benefits of Flood Mitigation: Evidence from Scientific Research. USACE Flood Risk Management and Silver Jackets Workshop. Keynote speaker. August 21, 2012. Harrisburg, PA.
- 2012 Determining the Economic Values of Floodplain Ecosystems: the role of natural functions in reducing flood losses. ASFM National Conference: Mission Mitigation. Plenary speech. May 23 2012. San Antonio, TX.
- 2012 Identifying Risk and Vulnerability in the Clear Lake Watershed. Gulf Coast Hurricanes: Mitigation and Response Conference. April 10, 2012. Rice University, Houston, TX.
- 2012 Regional Community Resiliency Along the Gulf Coast: Urban versus Rural Settings. Disaster Resiliency and Sustainability Workshop. March 28-30. University of Central Florida, Orlando, FL.
- 2011 Evaluating the Effectiveness of Planning Activities in Reducing Flood Losses: A National Study. ACSP 2011 Annual Conference. October 13, 2011. Salt Lake City, UT.
- 2011 Rising Waters: Causes and Consequences of Flooding in the United States. Texas Floodplain Management Association Annual Conference. September 22, 2011. San Antonio, TX.
- 2011 Flooding in the U.S.: Causes, Consequences, and Policy Implications. 2011 International Water Symposium: Water Security and Cities of the Future. Korea Environmental Institute. July 19, 2011. Korea Chamber of Commerce and Industry, Seoul, Korea.

- 2011 Developing a Coastal Communities Planning Atlas for Decision Makers and Local Residents. 21st Annual SAIL Conference: Into the “I” of the Storm. April, 7, 2011. TX A&M University, Galveston, TX.
- 2010 Negotiation: Tips, Tricks, and Treat for Successful Outcomes. 4<sup>th</sup> Annual Women on the Water (WOW) Conference. November 6, Texas A&M University at Galveston.
- 2010 Development Intensity and Flood Loss: The Erosion of Resiliency on the Gulf Coast. ACSP Conference. October 7, Minneapolis, Minnesota.
- 2010 Land Use Tools for Flood Sustainability. Sustainable Land Use Conference: A Better Future for the Houston Region. October 5, Shell Center for Sustainability, Rice University, Houston, TX.
- 2010 Coastal Communities Planning Atlas as a Tool for Emergency Management. 4<sup>th</sup> Annual Emergency Managers Association of Texas Symposium: Lighting the Way to the Future. September 1, League City, TX.
- 2010 Evaluating the Effectiveness of Mitigation Strategies for Flood Reduction: How Much Can We Save? May 26, Coastal Resiliency Symposium. Rice University, Houston, TX.
- 2009 A Coastal Communities Planning Atlas for Decision Makers and Local Residents. TX APA Conference. October 9, Galveston, TX.
- 2009 Examining the Effectiveness of Flood Reduction Strategies. TX APA Conference. October 8, Galveston, TX.
- 2009 Examining the Willingness of Americans to Alter Behavior to Mitigate Climate Change. ACSP Annual Conference. October 1, Crystal City, VA.
- 2009 Applications of the Texas Coastal Communities Planning Atlas: Proactive Decision Making in a Web GIS Environment. 8<sup>th</sup> Annual Sea Grant Researchers Conference. September 22, TX A&M-Galveston, Galveston, TX.
- 2009 Does Mitigation Work? Examining the Effectiveness of Flood Reduction Strategies. Hurricane Ike Revisited Symposium. September 14, Rice University, Houston TX.
- 2009 Examining Local Commitment to Climate Change Policy in the U.S. through the Dimensions of Risk, Stress, and Capacity. 5<sup>th</sup> Urban Research Symposium, “Cities and Climate Change,” World Bank, June 29, Marseilles, France.
- 2008 *Keynote Speaker*, Land Use Change on the Coast of Texas. Severe Storm Prediction and Global Climate Impact in the Gulf Coast Conference, October 30, Rice University, Houston, TX.
- 2008 Developing a Coastal Planning Support System for Texas. TX Sea Grant Researchers Conference, September 24, Texas A&M University, College Station, TX.
- 2008 Mitigating Flood Impacts at the Local Level in Texas and Florida. ACSP/AESOP Conference, July 7, Chicago, Illinois.
- 2008 Examining the Impact of Local Planning Decisions on Flooding in Texas.

- Severe Storm Prediction, Education and Evacuation from Disaster (SSEED) Center Conference, May 29, Rice University, TX.
- 2008 Greening Local Energy: Explaining the Geography of Household Energy Use in the U.S. National APA Conference, April 28, Las Vegas, NV.
- 2007 Planning for Sustainable Coastal Communities: A Web-based Approach. Texas Sea Grant Researchers Conference. October 10, Port Aransas, TX.
- 2007 Policy Learning for Flood Mitigation: a longitudinal assessment of CRS activities in Florida. ACSP Conference, October 21, Milwaukee, WI.
- 2007 Policy Learning for Flood Mitigation: A longitudinal assessment of CRS activities in Florida. National Hazards Workshop, Hazards and Disasters Researchers Meeting. July 10, Boulder, Colorado.
- 2007 Explaining Local Commitment to Climate Change Policy in the United States. Florida Climate Change Conference. May 10, Tampa, Florida.
- 2007 Linking Wetland Alteration to Coastal Flooding: predictors, consequences, and policy implications. State of the Bay Symposium. January 24, Galveston, Texas.
- 2007 Examining the Impact of the Built Environment on Flood Losses in Texas. Sustainable Urbanism Conference, April 2, Texas A&M University, College Station, Texas.
- 2006 Estimating Flood Damage in Texas Using GIS: predictors, consequences, and policy implications. Geospatial Technology and Homeland Security University Symposium. November 15, Texas A&M University, College Station, Texas.
- 2006 Developing A Coastal Communities Planning Atlas: An Educational Tool for Decision Makers and Local Residents. Sea Grant Researchers Conference. October 8, Galveston, Texas.
- 2006 Explaining Local Commitment to Climate Change Policy in the United States. ACSP Conference November 10-12, Fort Worth, Texas.
- 2006 National Hazards Workshop, Hazards and Disaster Researchers Meeting. July, Boulder, Colorado.
- 2006 Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida: Causes, Consequences, and Policy Implications. International Disaster Reduction Conference. Davos, Switzerland.
- 2005 Examining the Relationship between Wetland Alteration and Watershed Flooding in Texas and Florida. ACSP Conference. Kansas City, MO.
- 2005 Sustainable Planning at the Urban Fringe: Examining the factors contributing to nonconforming development patterns in Florida. International Conference on Sustainable Planning and Development. Bologna, Italy
- 2004 Does Planning Work? Testing the Implementation of Local Environmental Planning in Florida. ACSP Conference. Portland, OR.

- 2003 Evaluating Ecosystem Management Capabilities at the Local Level in Florida: A Policy Gap Analysis. International Conference on Sustainable Planning and Development. Skiathos, Greece.
- 2001 Implementing the Principles of Ecosystem Management In Florida. ACSP 43<sup>rd</sup> Annual Conference. Cleveland, OH.
- 2000 A Model for Ecosystem Management Through Land Use Planning. Greater Everglades Ecosystem Restoration Science Conference. Naples, FL.
- 2000 Public Participation and Planning for Natural Hazards Mitigation. ACSP 42<sup>nd</sup> Annual Conference. Atlanta, GA.
- 1997 Evaluating a Network of Marine Protected Areas. Maritime Atlantic Ecozone Science Workshop Huntsman Marine Science Center. St. Andrews, NB.
- 1997 Planning for Ecotourism in Maine. DownEast Ecotourism Conference. Hancock, ME.
- 1997 Marine Protected Areas: Results of a Survey. Gulf of Maine Marine Protected Areas Workshop. Freeport, ME.

## TEACHING EXPERIENCE

### COURSES TAUGHT

- LDEV 671, Sustainable Development.
- PLAN 641, Environmental Planning.
- PLAN 620, Dispute Resolution.
- PLAN 651, SCMP Seminar: Planning for Coastal and Marine Protected Areas.
- NSF Sustainable Coastal Margins Seminar on Informational Technology and Science Education.
- MARS 689, Coastal Environmental Planning
- PLAN 642, Coastal Sustainability and Resiliency

<b>Semester</b>	<b>Course No.</b>	<b>Course Title</b>	<b>Credit Hours</b>	<b>Evaluation Score</b>
<i>Spring, 2002</i>	PLAN 641	Environmental Planning	3	4.30
<i>Fall, 2002</i>	PLAN 620	Dispute Resolution	3	4.42
<i>Spring, 2003</i>	PLAN 641	Environmental Planning	3	4.58
<i>Spring, 2003</i>	*PLAN 689	Planning for Coastal & Marine Protected Areas	3	4.56
<i>Summer, 2003</i>	*+PLAN 689	Sustainable Coastal Margins	3	NA
<i>Fall, 2003</i>	PLAN 620	Dispute Resolution	3	4.93
<i>Spring, 2004</i>	PLAN 641	Environmental Planning	3	4.66
<i>Spring, 2004</i>	LDEV 671	Sustainable Development	3	4.50
<i>Summer, 2004</i>	+PLAN 689	Sustainable Coastal Margins	3	NA
<i>Fall, 2004</i>	PLAN 620	Dispute Resolution	3	4.92
<i>Fall, 2004</i>	PLAN 689	Planning for Coastal & Marine Protected Areas	3	4.96

<i>Spring, 2005</i>	PLAN 641	Environmental Planning	3	4.54
<i>Spring, 2005</i>	LDEV 671	Sustainable Development	3	4.63
<i>Spring, 2006</i>	LDEV 671	Sustainable Development	3	4.44
<i>Spring, 2006</i>	PLAN 620	Dispute Resolution	3	4.62
<i>Fall, 2006</i>	PLAN 641	Environmental Planning	3	4.73
<i>Spring, 2007</i>	PLAN 620	Dispute Resolution	3	4.95
<i>Spring, 2007</i>	LDEV 671	Sustainable Development	3	4.27
<i>Spring, 2008</i>	PLAN 620	Dispute Resolution	3	4.92
<i>Spring, 2008</i>	LDEV 671	Sustainable Development	3	4.68
<i>Fall, 2008</i>	PLAN 641	Environmental Planning	3	4.90
<i>Spring, 2009</i>	LDEV 671	Sustainable Development	3	4.19
<i>Spring, 2009</i>	PLAN 620	Dispute Resolution	3	4.91
<i>Fall, 2009</i>	PLAN 641	Environmental Planning	3	4.61



<i>Fall, 2009</i>	MARS 689	Coastal Environmental Planning	3	4.80 <sup>^</sup>
<i>Spring, 2010</i>	LDEV 671	Sustainable Development	3	4.47
<i>Spring, 2010</i>	MARS 689	Coastal Sustainability & Resiliency	3	4.68 <sup>^</sup>
<i>Fall, 2010</i>	PLAN 641- CS	Environmental Planning	3	4.52
<i>Fall, 2010</i>	PLAN 641- G	Environmental Planning	3	4.98 <sup>^</sup>
<i>Spring, 2011</i>	LDEV671	Sustainable Development	3	4.08
<i>Spring, 2011</i>	MARS 689	Coastal Resiliency & Sustainability	3	4.87 <sup>^</sup>
<i>Fall, 2011</i>	PLAN 641-CS	Environmental Planning	3	4.55
<i>Fall, 2011</i>	Plan 641-G	Environmental Planning	3	4.80 <sup>^</sup>
<i>Spring, 2012</i>	LDEV671	Sustainable Development	3	4.95
<i>Spring, 2012</i>	MARS 689	Coastal Resiliency & Sustainability	3	3.78
<i>Fall, 2012</i>	PLAN 641-CS	Environmental Planning	3	4.95
<i>Fall, 2012</i>	Plan 641-G	Environmental Planning	3	4.78

<i>Spring, 2013</i>	LDEV-G 671	Sustainable Development	3	NA
<i>Spring, 2013</i>	PLAN 642	Coastal Resiliency	3	4.85
<i>Fall, 2013</i>	PLAN 641-CS	Environmental Planning	3	4.58
<i>Fall, 2013</i>	PLAN 641-G	Environmental Planning	3	4.69
<i>Spring, 2014</i>	LDEV-G 671	Sustainable Development	3	5.00
<i>Spring, 2014</i>	PLAN 642	Coastal Resiliency	3	4.98
<i>Fall, 2014</i>	PLAN 641-CS	Environmental Planning	3	4.97
<i>Fall, 2014</i>	PLAN 641-G	Environmental Planning	3	5.00
<i>Spring, 2015</i>	PLAN 642-CS	Coastal Resiliency	3	4.65
<i>Spring, 2015</i>	PLAN 642-G	Coastal Resiliency	3	4.55
<i>Fall, 2015</i>	PLAN 641-CS	Environmental Planning	3	4.84
<i>Fall, 2015</i>	PLAN 641-G	Environmental Planning	3	4.33
<i>Spring, 2016</i>	PLAN 642	Coastal Resiliency	6	4.83

<i>Spring, 2016</i>	MARS 489	Sp. Topics Climate Change	3	4.78
<i>Fall, 2016</i>	PLAN 641	Environmental Planning	6	NA
<b>TOTAL/ AVERAGE</b>				<b>4.67</b>

\*Denotes a course that has never previously been taught in the Department.

†This course is taught through the NSF-sponsored Informational Technology and Science (ITS) program.

^Scale reversed to keep scores consistent with other courses taught.

## PH.D. COMMITTEES

<b>Name</b>	<b>Faculty Role</b>	<b>Degree Sought</b>	<b>Topic/Title</b>	<b>Expected Date of Graduation</b>
Hyung-Cheal Ryu	Chair	Urban & Regional Science	Ecological Footprint Analysis in Dallas County, TX	2005*
David Bierling	Member	Urban & Regional Science	Stakeholder Participation	2010*
Zhenghong Tang	Chair	Urban & Regional Science	Watershed Management and Planning	2007*
Sarah Bernhardt	Chair	Urban & Regional Science	Coastal & Marine Planning	2009*
Sudha Arlikatti	Member	Urban & Regional Science	Household Earthquake Adjustments	2005*
Roubabah Ismayilova	Member	Urban & Regional Science	Bio-fuel Production in TX	2007*
Bing Sheng	Member	Geography	Growth Management	2009*
De'Etra Young	Member	Forestry	Watershed Management	2010*
Wesley Highfield	Chair	Urban & Regional Science	Wetland Alteration & Watershed Flooding	2008*
Himanshu Grover	Chair	Urban & Regional Science	Climate Change Planning	2009*

JunEun Kang	Co-Chair	Urban & Regional Science	Flood Planning	2009*
Gabriel Burns	Member	Urban & Regional Science	Hazard Resiliency Among Border Communities	2012
Li-Pin Lin	Chair	Urban & Regional Science	Environmental Impacts of Ecotourism	2011*
HeeJu Kim	Chair	Urban & Regional Science	Urban Heat Island Effects	2013*
Michael Gilbrook	Member	Biology, UCF	Land Use and Biodiversity	2015*
Joshua Gunn	Chair	Urban & Regional Science	Wetlands and Flooding	2016*
Mustafa Sharif	Member	Urban & Regional Science	Sustainable Industry	2015*
Hyun Kim	Member	Urban & Regional Science	Flood Hazards	2014*
Paula Lorente	Member	Urban & Regional Science	Development and Flooding	2016*
Jessica D'Guilio	Member	MARB IDP	Risk Comm.	2015
Russell Blessing	Chair	Urban & Regional Science	Ecosystem Function	2017
Kayode Atoba	Chair	Urban & Regional Science	Coastal Hazards	2017
William Mobley	Co-Chair	Urban & Regional Science	Fire and Resiliency	2017
Yoonjeong Lee	Chair	Urban & Regional Science	Flood Hazards	2016*
Hyekyung Lee	Co-Chair	Urban & Regional Science	Low Impact Development	2016*
Antonia Sebastian	Member	Engin., Rice U.	Flood Hazards	2017*
Heather Wade	Member	Ecosystem Modeling, TAMU-CC	Coastal Hazards	2017
Siyu Yu	Member	Urban &	Environmental	2019

\* Graduated

**MASTER'S COMMITTEES**

<b>Name</b>	<b>Faculty Role</b>	<b>Degree Sought</b>	<b>Topic/Title</b>	<b>Expected Date of Graduation</b>
Jennifer Yust	Chair	Master's of Urban Planning	The Role of Resource-Based Industry in Ecosystem Management	2004*
Vicky Carrasco	Chair	Master's of Urban Planning	Sprawl Reduction Planning Policies	2004*
Wes Highfield	Chair	Master's of Urban Planning	A Spatial Analysis of Air Quality in Dallas, TX	2004*
Sara Thornton	Chair	Master's of Urban Planning	Ecological Restoration	2005*
Missy Pollard	Chair	Master's of Urban Planning	Land Use Planning	2006*
Michael Dyke	Co-Chair	Master's of Urban Planning	Natural Hazards Management	2005
Paula Lorente	Co-Chair	Master's of Urban Planning	Wetland Mitigation Banking	2005*
Tracy Gwaltney	Member	M.S. in Rangeland Ecology	Modeling the Impacts on Runoff in a Rangeland Environment	2003*
Clint Wolfe	Member	M.S. in Water Res. Management	Water Resource Conflicts	2004*
Chris Butler	Member	Master's of Urban Planning	Public Participation in Planning Using Geographic Information Systems	2004*
Robin Stover	Member	Master's of Urban Planning	Plan Implementation	2004*

Dan Whitton	Member	Master's of Land Development	Wetland Mitigation	2005*
Lee Johnson	Member	Master's of Land Development	Sustainable Development	2005*
Katie Collier	Member	Architecture	Ecotourism and Environmental Education	2005*
Amber Davies	Member	Rangeland Ecology	Spatial Examination of Landowner Perceptions	2006*
De'Etra Young	Member	Forestry	GIS Tools & Water Quality	2006*
Himanshu Grover	Chair	Master's of Urban Planning	Climate Change Planning	2006*
Mathew Hilgemeier	Chair	Master's of Urban Planning	Greenway Planning	2007*
Jeffery Missal	Chair	Master's of Urban Planning	Hazards Planning	2008*
Vanessa Kelly	Member	M.S. Water Management Hydrological Science	Water Dispute Resolution	2007*
Linda Salzar	Chair	Master's of Urban Planning	Watershed Management	2009*
Angie Leinhert	Chair	Master's of Urban Planning	Environmental Planning	2009*
Ching-Yu Chou	Chair	Master's of Urban Planning	Environmental/land use planning	2008*
Pamela Da'Graca	Member	Master's of Architecture	Sustainable Architectural Design	2009*
Parrot Hall	Member	Master's of Natural Resources Development	Golf Courses & Protection of Natural Habitats	2009
Dan Galindo	Chair	Master's of Urban Planning	Evaluation of Smart Growth Communities	2009*
Hee Ju Kim	Chair	Master's of Urban Planning	Urban Heat Island Effect	2009*
Xun Ping	Member	Master's of	Urban Form	2009*

		Urban Planning		
Anita Hollman	Chair	Master's of Urban Planning	Coastal Management	2010*
Juanita Huff	Member	Rangeland Ecology	Watershed Management	2010*
Nicole Persons	Member	Geography	Wind Energy	2010*
Mark Navarro	Member	Land Development	Sustainable Development	2010*
Cameron Muhic	Member	MUP	Land Use	2010*
Amanda Geserick	Member	Arch	Sustainable Design	2010*
Joshua Gunn	Member	MARM	Wetland Policy	2010*
Amie Hufton	Member	MARM	Fisheries	2010*
Heather Wade	Chair	MUP	Enviro. Planning	2011*
Carland Holstead	Chair	MARM	Wetlands	2011*
Sarah Norman	Member	MARM	Recreational Fisheries	2011*
Russell Blessing	Chair	MUP	Failing Septic Systems	2011*
Allen Kumassah	Chair	MUP	Open Space	2011*
Dayna Finlay	Member	Arch	Ecotourism	2012*
Ryan Norton	Chair	MUP	Resiliency	2012*
Laura Forest	Member	WFS	Protected Areas	2012
Tyler Frizzle	Chair	MARM	Coastal Planning	2012*
Laurissa Noack	Member	MARM	Bird Habitat	2012*
Melinda Barnes	Member	ESSM	Sustainable Forestry	2012*
Thomas Riddle	Member	MARM Thesis	Bird Habitat	2012*
Jennifer Feagins	Chair	MARM	Coastal Hazards	2012*
Sae Lee	Chair	MUP	Coastal Hazards	2012*
Jaimie Masterson	Chair	MUP	Flood Resiliency	2012*
Patrick	Chair	MUP	Flood Hazards	2013*

Doty				
Tak Makino	Chair	MARM Thesis	Fire Resiliency	2012*
Alexandra Stiles	Chair	MARM	Coastal Resiliency	2013*
Stephanie Carballo	Member	MUP	Protected Areas Network	2013*
Kevin Crosby	Chair	MUP	Open Space Protection & Floods	2013*
Frances Kellerman	Member	MCRP- UT Austin	Flood Risk Vulnerability	2013*
Morgan Wilson	Chair	MUP	Flood Hazards	2014
Patrick Doty	Chair	MUP	Flood Hazards	2014*
Jake Emmert	Co-Chair	MARM	Geo Hazards	2015*
Sequoia Riley	Chair	MARM	Wetlands	2015*
Kasper Stoeten	Member	Engineering, Delft U.	Flood Barriers	2013*
Walt Peacock, Jr.	Member	MUP	Hazards	2014*
David Moulton	Member	Marine Biology	Ecosystems	2015*
Amanda Schneider	Member	Architecture	Sustainable Development	2014*
Helen Walters	Chair	MARM	Land Use Change	2016*
Whitlee Baimbridge	Member	MARM	Ecosystem Services	2015*
Kendra Kopp	Member	MARM		2015*
James Gay	Member	MARM		2015*
Lindsay Doremus	Member	MUP	Housing	2015*
Kathryn Kalubar	Chair	MARM	Environmental Planning	2016*
Reja Yousuf	Chair	MUP	Wetland Resiliency	2016*
Vera Abushakra	Chair	MUP	Elevating Structures & Floods	2016*
Jayton Rainey	Chair	MARM	Harmful Algae Blooms	2017
Valeria Rodriquez	Co-Chair	MARM		2018
Samantha	Chair	MARM		2018



Dunn			
Travis Winters	Member	Water Management	2018
Jessica Casillas	Member	MARM	2018

\* Graduated

## SERVICE ACTIVITIES

### SCIENTIFIC JOURNAL AD HOC REVIEWS

Natural Hazards Review	Land Use Policy
International Journal of Sustainable- Planning & Development	International Journal of Mass Emergencies- & Disasters
Society and Natural Resources	Journal of Planning Literature
Corporate Social Responsibility and Environmental Management	GeoJournal
Journal of Landscape and Urban Planning	Ad Hoc Assignment Editor, Conservation- Biology
International Journal of Epidemiology	Natural Hazards
Journal of the American Planning- Association	Canadian Geographer
Journal of Planning Education and Research	Coastal Management
Journal of Environmental Planning and Management	Climate, Disaster, and Development Journal
Conservation Biology	Risk Analysis

### SCIENTIFIC PEER REVIEWS

2016	Book Proposal Review, Advanced Techniques for Disaster Mitigation and Management, Elsevier Press.
Fall/Spring, 2016	National Science Foundation Ad Hoc Proposal Review
Fall, 2015	National Science Foundation Ad Hoc Proposal Review
Summer, 2015	National Science Foundation Ad Hoc Proposal Review
Spring, 2015	National Science Foundation Panel Review
Fall, 2014	National Science Foundation, SBE, Ad Hoc Proposal Review
Fall, 2014	National Science Foundation, Geography and Spatial Sciences, Ad Hoc proposal review
Fall, 2014	Proposal Review, Netherlands Organization for Scientific Research (NOW), Council for Earth and Life Sciences (ALW)
Summer, 2013	Georgia Sea Grant Panel Review

Fall, 2013	National Science Foundation Panel Review
Fall, 2012	National Science Foundation Panel Review, Social and Behavioral Sciences.
Spring, 2012	Environmental Protection Agency Technical Review. Benefits of Green Infrastructure in Flood Damage Reduction.
Fall, 2011	National Science Foundation Panel Review, Engineering Directorate.
Summer, 2011	Georgia Sea Grant Research Proposal Review, Athens, GA, August 18.
Spring, 2011	FEMA NFIP Reform Expert Panel, Minimizing Exposure to Flood Hazards, April 12.
Spring, 2011	Texas Sea Grant Proposal Ad Hoc Review.
Spring, 2011	National Science Foundation Ad Hoc Review. Social Behavioral and Economic Sciences.
Spring, 2011	Book Proposal Review, Hydrology of Floods, Cambridge University Press.
Spring, 2010	San Clemente Storm Damage and Shoreline Protection Feasibility Study. Independent External Review. US Army Corps of Engineers/Batelle Corp.
Fall, 2009	Ad Hoc National Science Foundation (NSF) proposal review, Social, Behavior, Economic Sciences Directorate.
Fall, 2009	Book Proposal Review, Flooding and Environmental Change in Fluvial Lowlands, Cambridge University Press.
Spring, 2009	Ad Hoc National Science Foundation (NSF) proposal review, Engineering Directorate.
Spring, 2009	National PERISHIP Award Dissertation Fellowship in Hazards, Risks, and Disasters Proposal Review.
Fall, 2008	Ad Hoc National Science Foundation (NSF) proposal review, Engineering Directorate.
Fall, 2008	Ad Hoc Proposal Review, National Science Foundation (NSF) Panel, Social, Behavioral, and Economic Sciences
Spring, 2008	Ad Hoc Proposal Review, PERISHIP Dissertation Fellowship, National Hazard Center, University of Colorado- Boulder.

Fall, 2007	Ad Hoc Proposal Review, National Science Foundation (NSF) Panel, Social, Behavioral, and Economic Sciences.
Fall, 2007	Book Proposal Review, <i>The Planner's Guide to Natural Resource Conservation: The Science of Land Development Beyond the Urban Fringe</i> , Springer Press.
Spring, 2007	Book Chapter Review, <i>Geospatial Technology and Homeland Security</i> , Springer Press.
Fall, 2006	Proposal Review, National Science Foundation (NSF) Panel, Engineering Directorate
Summer, 2006	Ad Hoc National Science Foundation (NSF) proposal review, Division of Earth Sciences
Spring, 2005	Proposal Review, National Science Foundation (NSF) Panel, MUSES/Biocomplexity Program
Spring, 2004	Proposal Review, National Science Foundation (NSF) Panel
Fall, 2004	Proposal Review, National Science Foundation (NSF) Panel
2003	Proposal Review, NOAA Sea Grant Program
2002	Proposal Review, Joshua Venture Fellowship Program for Social Entrepreneurs

## **EXPERT PANELS AND WORKSHOPS**

NSF PIRE Principal Investigators Workshop, Office of International Science and Engineering, NSF, Washington, DC, May 16-17, 2016.

Flood Apex Research Review Board Meeting, Washington, DC, March 29-30, 2016.

Flood Risk Reduction Workshop. TU Delft., Delft, Netherlands, Feb 29, 2016.

National Science Foundation, Enabling the Next Generation of Hazards Research. San Diego, CA. February 5-6, 2016.

National Hazards Research and Applications Workshop, Broomfield, CO. July 20-22, 2015.

Workshop on Quantitative Community and Infrastructure Integrated Risk Assessment Approaches. The Water Institute of the Gulf. Baton Rouge, LA. May 13, 2015.

Houston of Tomorrow: Building a Resilient Coastal City. Expert Panel, Glasscock School of Continuing Studies, Rice University. Houston TX. April 15, 2015.

APA/FEMA Flood Symposium: subdivision design in flood hazard areas. Chicago, IL. February 19-20, 2015.

NSF Hazard Enabling Project Workshop, Denver CO. February 4-6, 2015.

FEMA CRS Task Force Meeting, New Orleans, LA. January 26, 2015.

AAG Annual Conference, Coastal Hazard Panel, Tampa Bay, FL. April 8, 2014.

Hazard Reduction and Recovery Center Symposium Panelist, College Station, TX. April 4-5, 2014.

Flood Risk Reduction Colloquium. Delft University, Netherlands, July 22-26, 2013.

NSF ICNET Project workshop. University of New Hampshire, April 25, 2013.

Texas Flood Risk Symposium. TX GLO, Austin, TX, March 19, 2013.

Building global resilience to natural hazards: translating science into action. Wilton Park, England, January 28-30, 2013.

FEMA Community Rating System Weighting Forum, Philadelphia, PA, June 6-9, 2011.

Coastal Resiliency Workshop, TAMU-Galveston, May 27, 2011.

ACSP Administrator's Conference, Planner's Role in Large Multidisciplinary Research Projects. University of Texas, Austin, TX, May 6, 2011.

National Science Foundation, Hazards Enabling Project, Ballston, VA, June 20-23, 2010.

NSF Long Term Ecological Research, Coastal Vulnerability Workshop. Athens, GA, February 22-24, 2010.

Coastal Resiliency Indicators for the Gulf Coast Workshop, Texas A&M University at Galveston, May 13, 2009.

20<sup>th</sup> Anniversary Hazard Reduction and Recovery Center Workshop, TX A&M University, College Station, TX, January 31, 2009.

Natural Hazards Workshop, Broomfield, Colorado, July 11-15, 2009.

Wetland Valuation Assessment Model Certification Review, USACE/Battelle Corp., May – July, 2009.

Community Resilience Indicator Meeting, Coastal Services Center, NOAA, Charleston, SC, May 28-29, 2009.

Coastal Resiliency Indicators for the Gulf Coast Workshop, Texas A&M University- Galveston, May 13, 2009.

Environmental Law Institute, Conservation Thresholds Committee Meeting, Fort Collins, Co, September 18-21, 2008.

Natural Hazards Workshop, Broomfield, Colorado, July 11-15, 2008.

Toward a National Hazard Vulnerability and Resiliency Observatory Workshop, Texas A&M University, College Station, Texas. Sponsored by the National Science Foundation, June, 2008.

National Science Foundation, Hazards Enabling Project, Mentor, 2008-2010.

Hazards and Disaster Researchers Meeting, Boulder, Colorado. Sponsored by University of Colorado, July 2007.

Conservation Thresholds Workshop, Racine, Wisconsin. Sponsored by the Environmental Law Institute, March, 2007.

Hazards and Disaster Researchers Meeting, Boulder, Colorado. Sponsored by Texas A&M University, July 2006.

Natural Hazards Workshop, Boulder, Colorado, July, 2006.

## **COMMITTEES**

### ***International/National***

DHS Science and Technology Directorate Relational, Adaptive Processing of Information and Display Relational (RAPID) Apex Program, Review Board member. September, 2015 to present.

National Science Foundation, Hazard Enabling Program Advisory Committee, 2014-2017.

National Science Foundation Infrastructure and Climate Network, Senior Advisory Committee, 2012-2013.

Texas Coastal Resiliency Forum, Steering Committee member, Fall 2009 - 2011.

Environmental Law Institute Conservation Thresholds Program Advisory Committee, 2008 – 2011.

Moderator & Discussant, Shoreline and Coastal Environmental Planning Session, ACSP/ASEOP Conference, July 11, 2008, Chicago, Illinois.

Editorial Board, *Journal of the American Planning Association*, 2006 – 2012.

Editorial Board, *International Journal of Sustainable Planning and Development*, 2004 – 2006.

Moderator & Discussant, Hazards Vulnerability Session, ACSP Conference, November 10-12, 2006, Fort Worth, Texas.

International Scientific Advisory Committee, Annual Conference on Sustainable Planning and Development, 2003-2008.

International Conference on Sustainable Planning and Development, Environmental Legislation and Policy Session Chair, Skiathos, Greece, 2003.

### ***University***

2016	University Provost Search Committee
2014 - present	Texas Center for Climate Studies Executive Committee
2013 – 2015	George Mitchell Statue Committee
2008 – 2009	University Research Roadmap Committee
2008 – 2009	Council of Principal Investigators, Alternate
2004 – 2005	<i>Phi Beta Kappa</i> , Charter Member.
2003 – 2005	Graduate Teaching Academy Mentor Program.
2003 – 2005	Executive Committee, Sustainable Coastal Margins Program
2002 – 2005	Advisory Committee, Sustainable Coastal Margins Program
2002 – 2005	Co-chair, Sustainable Coastal Margins Program Education Committee
2002 – 2003	Steering Committee, University Program on Conflict Management and Dispute Resolution

### ***College of Architecture/Galveston Campus***

2016	Strategic Enrollment Management Committee
2016	TAMUG COO Search Committee
2015	Chair, TAMUG Tenure and Promotion Committee
2015-	Advisor, TAMUG Conservation Organization
2013-	College Research and Interdisciplinary Council (CRIC)
2010 – 2012	TAMU-G Research Advisory Committee
2008 – 2009	Dean of Architecture Search Committee
2007	Ad Hoc College Grievance Committee
2005 – 2008	College Research and Interdisciplinary Council (CRIC)

### ***Department***

2016	Member, Marine Sciences Department Advisory Committee
2016	Member, GIS Librarian Search Committee
2016	Chair, MARS Spatial Sciences Search Committee
2015	Co-Chair, Coastal Environmental Policy Search Committee
2015	Marine Sciences Tenure and Promotion Committee
2015	Chair, Marine Sciences MARM Program Review Committee
2013-	URSC PhD Committee
2013	Member, Promotion and Tenure Committee, LAUP
2013	Member, Promotion and Tenure Committee, Marine Sciences
2012	Chair, Marine Sciences Department, Economist Search Committee
2012	Chair, Marine Sciences Department, MARM External Evaluation Committee
2012-	Marine and Coastal Resource Management PhD Development Committee
2012	Marine Sciences Department Executive Committee
2011	Marine Sciences Department GIS Faculty Search Committee
2010-2012	Chair, Promotion and Tenure Committee, Marine Sciences

2010	Marine Sciences Department Head Search Committee
2010	Marine Biology IDP Admissions Committee
2010	PHD Development Committee
Fall, 2009-2010	Marine Sciences Department Strategic Plan Committee
2008 – 2010	Transportation Planning Certificate Council
2008	HRRC Faculty Search Committee
2006 – 2010	Master's of Urban Planning Committee
2005 – 2011	Advisor, Urban and Regional Science Student Organization
2005 –	Urban and Regional Science Program Committee
2004	Co-Chair, Department Signature Search and Replacement Committee
2004	Department Head Search Committee
2004 – 2005	Master's of Land Development Advisory Committee
2002 – 2005	Advisor, Association for Student Planners
2002	Sustainable Coastal Margins Program Senior Faculty Search Committee