

## College of Architecture symposium spotlights faculty research

The 13th Annual Texas A&M College of Architecture Research Symposium: **Natural, Built, Virtual** features a series of faculty presentations previously delivered at scholarly venues around the world. This year's symposium includes invited or refereed presentations and papers from the 2010-11 academic year.

"The individual sessions comprising the symposium display a wide range of scholarship with respect to people and place," said Louis G. Tassinary, executive associate dean for the College of Architecture. "Fundamentally, the sessions reflect themes that have emerged in the work of the faculty and research staff over the past year."

This year's symposium features 56 presentations grouped in 12 diverse categories and delivered in four concurrent sessions throughout the day. The categories include visualization, health, building performance, economics, excogitation, hazards, sustainability, building information modeling, neighborhoods, preservation, pedagogy and tools and methods.

The college's annual symposium was established

a more than a decade ago to underscore the influence of research on teaching and practice. It also serves as a catalyst for research-informed teaching in the College of Architecture's five undergraduate and nine graduate degree programs. And, because many of the presentations were originally delivered at scholarly venues abroad, the event also showcases the global influence of research conducted by college faculty.

Chairing the 2011 college research symposium is **Dr. Cecilia Giusti**, college coordinator for climate, equity, accountability and outreach and associate professor in the Department of Landscape Architecture and Urban Planning.

Highlighting the 2011 symposium will be a keynote address by social psychologist **Susan D. Clayton**, the Whitmore-Williams Professor of Psychology and chair of environmental studies at the College of Wooster, a private liberal arts school in Wooster, Ohio.

A Fellow in the American Psychological Association, Clayton has served as president of the Society for Population and Environmental Psychology. Her



Susan D. Clayton

research examines the ways people think about, and make personal connections to, the natural environment.

She has published extensively on topics related to justice as well as the natural environment and developed an Environmental Identity (EID) Scale to assess the degree to which the natural environment plays an important part in the way in which people think about themselves.

Among her current research projects, Clayton is examining the impacts of zoo visits on social interactions and attitudes toward animals. She is also investigating how environmental problems are manifested and experienced differently in different countries, and how these cultural differences affect the response to such problems.

**7:30 a.m. CONTINENTAL BREAKFAST:** Langford B Exhibit Hall

**8:15 a.m. DEAN'S WELCOME:** Jorge Vanegas, dean of the Texas A&M College of Architecture — Preston Geren Auditorium

**8:20 a.m. SYMPOSIUM CHAIR'S REMARKS:** Cecilia Giusti, associate professor, Department of Landscape Architecture and Urban Planning.

	visualization Preston Geren Auditorium Moderator: Elton Abbott	health Wright Gallery Moderator: Ward Wells	building performance Langford C105 Moderator: Leslie Feigenbaum	economics Langford A107 Moderator: Joe Horlen
<b>8:30 a.m.</b>	<b>Ann McNamara</b> Impact of Subtle Gaze Direction on Short-Term Spatial Information Recall	<b>Jun-Hyun Kim</b> Urban Landscape Pattern and Childhood Obesity	<b>Mardelle McCuskey Shepley</b> Why is a Pre-Occupancy Study Critical to Facility Research? Pre/Post Practitioner-Focused Facility Evaluation Methods and a Case Study	<b>Geoffrey Booth</b> Urban Design and the Bottom Line: Measuring and Maximizing Real Estate Value
<b>8:50 a.m.</b>	<b>Frederic Parke</b> 'Seams' to Make No Difference	<b>Zhipeng Lu</b> Designing Long-Term Care in China: Lessons Learned	<b>Bruce Dvorak</b> Green Roof Plants: Strategies for Success	<b>Cecilia Giusti</b> Businesses redevelopment and HOPE VI redevelopment: Beaumont Texas. A Case Study
<b>9:10 a.m.</b>	<b>Ergun Akleman</b> Band Decomposition of 2-Manifold Meshes for Physical Construction of Large Structures	<b>George Mann</b> Two Case Studies in Africa: Design of a Rural Hospital for Tanzania and a Multipurpose Health Facility in the Sudan	<b>Ife Choudhury</b> Use of Building Integrated Photovoltaic Roof Tiles in Residential Buildings	<b>George Rogers</b> Economic Impact of Lake-Level Reductions on Lake Conroe Area: Lake Area Property Values, Property Tax Revenues and Sales Tax Revenues (A Progress Report)
<b>9:30 a.m.</b>	<b>Richard Davison</b> Real Drawing: Concepts, Constructions, Capriccios	<b>Susan Rodiek</b> Increasing Physical Activity through Access to Nature	<b>Jeff Habler</b> Energy Efficiency/Renewable Energy (EE/RE) Projects in Texas Public Schools	<b>Paul Woods</b> Parcel Unit Appraised Value and Number of Qualifying LEED Public Transportation Access Nodes
<b>9:50 a.m.</b>	<b>Phillip Galanter</b> Shot by Both Sides: Art-Science and the War Between Science and the Humanities	<b>Zuemei Zhu</b> Green and Healthy Hospitals: Incorporating the Consideration of Healthcare Outcomes Into the Green Hospital Building Rating System	<b>Sarel Lavy</b> A Literature Review on Measuring Building Performance by Using Key Performance Indicators	<b>Jose Fernandez-Solis</b> A theory on waste and value — in building construction

**10:10 a.m. BREAK:** Refreshments in Langford B Exhibit Hall

	excogitation	hazards	sustainability	BIM
	Preston Geren Auditorium Moderator: Elton Abbott	Wright Gallery Moderator: Ward Wells	Langford C105 Moderator: Leslie Feigenbaum	Langford A107 Moderator: Joe Horlen
<b>10:20 a.m.</b>	<b>Jasmine Benyamin</b> Pictures at an Exhibition: Re-discovering German Architecture in America	<b>Eric Bardenhagen</b> Storm Recovery Planning: Using Scientific Tools to Guide Recovery in the Context of Sea Level Rise	<b>Ming-Han Li</b> Use of Vegetation for Urban Infrastructure and Stormwater Management	<b>Mark Clayton</b> Signature Architecture Franchising: Reorganizing the building industry for BIM
<b>10:40 a.m.</b>	<b>Joshua Bienko</b> Why Kanye West, Tiger Woods, and Charlie Sheen are the answer to All of Our Problems	<b>Samuel Brody</b> Flooding in the United States: Causes, Consequences and Policy Implications	<b>Vallerian Miranda</b> Design and Development of a "Net-Zero" Building: Center for Sustainable Living	<b>Julian Kang</b> Rapid Building Information Modeling of Temporary Structures for Constructability Analysis
<b>11 a.m.</b>	<b>Stephen Caffey</b> Pepper the Walls with Bullets: Lina Bo Bardi's Museu de Arte de São Paulo	<b>Walter Gillis Peacock</b> Determinants & Characteristics of Damage in Single-Family Island Housing from Hurricane Ike	<b>Forster Ndubisi</b> Landscape Performance: Quantifying the Benefits of Sustainable Landscape Solutions	<b>Wei Yan</b> Teaching Integrated BIM and Parametric Modeling, Tianjin University
<b>11:20 a.m.</b>	<b>Gabriela Campagnol</b> Industrial Archeology and the Case of Brazilian Industrial Heritages	<b>Yu Xiao</b> Winners and Losers: Analyzing Spatial Economic Demand Shift after Disasters	<b>Gabriel Esquivel</b> Diaphanus	<b>Charles Culp</b> EnergyPlus vs. DOE-2.1e: The Effect of Ground-Coupling on Energy Use of a Code House with Basement in a Hot-Humid Climate
<b>11:45 a.m.</b>	<b>LUNCH:</b> Langford B Exhibit Hall			
<b>1 p.m.</b>	<b>KEYNOTE SPEAKER:</b> Susan D. Clayton, Whitmore-Williams Professor of Psychology, College of Wooster — Preston Geren Auditorium			
	Keynote Address: "Conservation Psychology: Psychological Tools to Address Environmental Challenges"			
	neighborhoods	preservation	pedagogy	tools & methods
	Preston Geren Auditorium Moderator: Vallerian Miranda	Wright Gallery Moderator: Lou Tassinary	Langford C105 Moderator: George Rogers	Langford A107 Moderator: Walter Gillis Peacock
<b>2:20 p.m.</b>	<b>Shannon Van Zandt</b> Landscapes of Inequality: The Spatial Distribution of Housing Opportunity in Texas	<b>Louis Tassinary</b> Stone Walls, Cites and the Law: Preservation Education and Research	<b>Rodney Hill</b> Rekindling Imagination in Education: An Imperative for the Future — The Context & The Why	<b>Boong Yeol Ryoo</b> Wireless/Mobile Sensors for Monitoring Worker's Health and Safety In Construction
<b>2:40 p.m.</b>	<b>Jesse Saginor</b> Evaluating Subdivision Characteristics on Single Family Housing Values Using Hierarchical Linear Modeling	<b>Anat Geva</b> Stone, Light, Mountains: Mario Botta's Churches in Ticino, Switzerland	<b>Jorge Vanegas</b> Rekindling Imagination in Education: An Imperative for the Future — The What, The How, & The With What	<b>Nancy Holland</b> A Comparative Study of Balanced Bond Wrench Testing and Unbalanced Bond Wrench Testing
<b>3 p.m.</b>	<b>Chanam Lee</b> The Development of a School Audit Instrument for Assessing Safety and Walkability of School Grounds and Nearby Streets	<b>Galen Newman</b> Preservation by Activation: Peripheral Land Use Management as Preservation Policy	<b>J. Thomas Regan</b> Change, Challenge, Response: Design Education in 2060	<b>John Nichols</b> A Finite Element Study of an Indonesian Single Storey Masonry Dwelling
<b>3:20 p.m.</b>	<b>Kenneth Joh</b> Do Mixed-Use Neighborhoods Promote Greater Gender Equity in Travel than Traditional Suburban Neighborhoods? An Empirical Study of Southern California	<b>Robert Warden</b> Scale matters: 3D technologies and information with the Maya Research Program in Belize	<b>Logan Wagner</b> Embodied Energy and The Natural Materials Laboratory: A tool for architecture students to discover the low impact approach to designing the built environment	<b>Liliana Beltran</b> Assessing the Lighting Performance of an Experimental Solar Light Pipe System
<b>3:40 p.m.</b>	<b>June Martin</b> Examining Challenges, Opportunities, and Best Practices for Addressing Rural Mobility and Economic Development under SAFETEA- LU's Coordinated Planning and Human Services Framework	<b>Michael O'Brien</b> Hybrids on the way to the Western Platform Frame: Two structures in Western Virginia	<b>Mohammed Haque</b> Relationship between Class Absenteeism and Grade Performance: A Pattern Recognition using Artificial Neural Network	<b>Zofia Rybkowski</b> Impact of Cost Constraints on Aesthetic Ranking Following TargetValue Design Exercises
<b>5 p.m.</b>	<b>PRESENTER RECEPTION:</b> Wine & hors d'oeuvres for symposium presenters & volunteers at Café Eccell, 101 Church Ave., College Station			