Architecture Research and Design Center
Accomplishments in Scholarship, Creative Activities, and Research

January 1 to December 31, 2016

The Architecture Research and Design Center (ARDC) facilitates and coordinates research, scholarship, and design activities within the College of Architecture (CoA). It assists faculty and students in their research/scholarship/creative endeavors, serves as a liaison to other research centers and institutes, and provides architectural/research services to the community.

The ARDC is headed by the Associate Dean for Research of the CoA, and has one staff member. Physical resources include a fully equipped conference room and space for four research assistants. It also offers high definition laser scanning equipment, ground-penetrating radar, and GPS survey instruments, among others. ARDC showcases faculty research, scholarship, and creative activities and houses a permanent collection of faculty productions. A list of faculty expertise is also available.

In the calendar year 2016, CoA faculty have written one book, one book chapter, seven peer-reviewed journal articles, lectured in 13 national and international venues, and displayed their creative work in 39 exhibitions. Additionally, they have organized conferences and workshops nationally, served as peer reviewers of journal articles and books, and served as panelists, nominators, and editors. Faculty also exhibited the work of their students at the local First Friday Art Trail and other venues. Full details of their research related activities are presented in the following pages.

Clifton Ellis, Ph.D.,
Associate Dean for Research
College of Architecture
PUBLICATIONS

Books


Book Chapters

Journal Articles
4. **Beneytez-Duran, R.,** “*Los Esquizos del Aire*”, ARQ 93, Issue “Suelo” March 2016, Catolica Universidad de Chile, Santiago de Chile, Chile.
5. **Beneytez-Duran, R.,** “*Atmósferas del Siglo XIX o de como la Teoría de Tammann explicó el fenomeno del Crystal Palace*”, ARQ 95, Issue “Referentes” December 2016, Catolica Universidad de Chile, Santiago de Chile, Chile.

Abstracts Published

Conference Proceedings


Book Reviews


Other Reviews


PRESENTATIONS AND EXHIBITIONS

Conference/Symposia Presentations


10. **McReynolds, Victoria, Perbellini, Maria.** “Translating Light from Sight to Site.” *National Conference on the Beginning Design Student*, tinyTED presentation, February 26, 2016, San Luis Obispo, California


**Conference Posters**

1. Berhie, Girmay and **Haq, Saif,** (2016), Syntactic Measures of Closeness and Betweenness: A Comparative Analysis of Gridded and Non-Gridded American Cities. **Poster presented in Graduate Students annual Poster Presentation, TTU** [Category: Humans and their environment]

**Peer-Reviewed Exhibitions**


2. **Davis, James.** ‘Road to Taos’ and ‘Rista’, West Texas Watercolor Societies annual Spring Exhibition, Buddy Holly Center, judge: Linda Baker, exhibited, Lubbock, Texas, April 2016

3. **Davis, James,** ‘Farm Lemons’ and ‘Farm Onions’, the West Texas Watercolor Societies annual Fall Exhibition, Legacy Arts Center, judge: Peggi Habets, exhibited, Lubbock, Texas, November 2016
4. Davis, James, ‘Aquere’ and ‘Marcel’s Boys’, the Pennsylvania Watercolor Society’s Member’s Online Exhibition, (Online Juried), accepted and exhibited, Pennsylvania, November 2016
21. Park, Kuhn. ‘Path of Seongsu’, continual threading among differences, or garden, Seoul, South Korea, July 5th-19th, 2016
22. Park, Kuhn. ‘Recovering Old, Recreating Youth’, 2016 Busan International Architecture Design Workshop, Busan, South Korea, August 1-7, 2016
27. Watkins, James. ‘exhibited ceramic vessels’, Group Exhibition, the Arts on the Llano Estacado, Texas Tech University Museum, Lubbock, Texas, April 2016

FUNDED RESEARCH

Ongoing Funded Research

Research Grants and Fellowship Proposals
1. Aranha, Joe. British Council Grant for Capacity Building in Ethiopia: Project for development of graduate programs in Ethiopia, $1,000,000 grant awarded, 2016. One of 6 Principle Investigators.
4. Shacklette, Ben. ‘Gillespie County Country Schools Historic structures field documentation, oral histories, and archival research in rural Fredericksburg, Texas’ Texas Tech University Scholarship Catalyst Program Competition Internal Research Grant Sponsored by the Offices of the President, Provost and Vice President for Research, $3,500, Spring-Fall 2016.
5. Zook, Julie. ‘Flow of city life in film’ Alumni College Fellowship, awarded by the TTU Humanities Center, November 2016 ($2,000).

RELATED SERVICE

Editor / Peer Reviewer / Jury Member / Panelist / Curator / Correspondent, etc.


5. David A Driskill. Invited panelist with Dr. Jennifer Vanos and Jason Hodges, ASLA, Texas Tech University Climate Science Center Interdisciplinary Seminar Panel on Urban Sustainability, December 6, 2016.

6. Ellis, Clifton. *Peer Review*, for the promotion and tenure of Daniel Vivian, Assistant Professor and Director, Public History Program, Department of History, University of Louisville, Louisville, Kentucky, 2016.


14. Haq, Saif. Paper reviewer, 4 full papers for Architectural Research Addressing Societal Challenges, the 10th International Conference of the European Association for Architectural Education (EAAE) and the Architectural Research Centers Consortium (ARCC), University of Lisbon, Faculty of Architecture, Lisbon, 15-18 June 2016

15. Haq, Saif. Paper reviewer 24 proposals in two rounds, Health Care Design Conference (Research Track) Submissions, Houston

16. Haq, Saif, Peer reviewer, President’s Excellence in Commercialization Award, Texas Tech University


18. Saif Haq, Co-Chair, Research Coalition, Center for Health Design, (see https://www.healthdesign.org/about/volunteers/research-coalition).

19. Saif Haq, Chair, New Investigator Award Committee, Center for Health Design, California. (Award worth $10,000.00)


24. **Taylor, Chris.** *Peer Reviewer, for Journal of Architectural Education,* Manuscript ID JOAE-08-16-S-0065.

### Invited Lectures

1. **Aranha, Joe.** *Contemporary and Traditional Architecture and the Built Environment in Nonwestern Societies*, Escuela Tecnica Superior de Arquitectura de Sevilla, University of Seville, June 2016, Seville, Spain.
2. **Aranha, Joe.** *Meaning in Traditional Architecture in Nonwestern Societies*, Universidad de las Americas, Puebla, Department of Architecture, Universidad de las Americas, February 2016, Puebla, Mexico
3. **Buelinckx, Hendrika.** *Women and the Architecture of the American West-Part II: Women as Muses*, OLLI, Osher Lifelong Learning Institute, Texas Tech University, February 2016, Lubbock, Texas
4. **Flueckiger, Upe** *The Making of How Much House* College of Architecture Lecture Series
   SPECULATIONS. Exhibition in CURRENTS Lecture, Texas Tech University, November 2016, Lubbock, Texas
8. **Taylor, C.** *Expanding Horizons with Land Arts*, Utah Museum of Fine Arts, September 2016, Salt Lake City, Utah
10. **Watkins, James.** *Alternative Kilns & Firing Techniques*, Lecture and Workshop, Metchosin International school of the Arts, July 4-10, 2016, Victoria BC, Canada
11. **Watkins, James.** *Mud Slingers*, Lecture and Workshop, LHUCA Clay Studio, November 4-6, 2016, Lubbock, Texas
12. **Zugay, Brian.** *First Methodist Church, Lubbock: Building on the Western Frontier*, at the 2016 Convocation of Archivists and Historians of the South Central Jurisdiction of the United Methodist Church|Texas United Methodist Historical Society Annual Meeting, First Methodist Church, October 2016, Lubbock, Texas

### PROFESSIONAL / DESIGN / GRAPHIC / PRODUCTION WORK

1. **Kripa, Ersela.** Selfie Wall public art installation, El Paso, Texas [project budget $20,000] Scope: Lead Architect/Partner with AGENCY, October 2016.
3. **Flueckiger, Upe.** *Stage and Restrooms at the LHUCA Plaza*, assisted Jean Caslin in schematic design proposal and grant writing for the LHUCA Plaza. [project budget: $100,000], completed August 2016
4. **Raab, Peter.** *Plastic Supply*, San Antonio, Texas [estimated construction cost: $180,000], Scope: Lead Architect and Designer for project, currently on hold (construction documents completed, 2016)

5. **Raab, Peter.** *Lakehouse + Studio Renovation*, Buffalo Springs Lake, Texas [estimated construction cost: $180,000], Scope: Design architect, currently on hold, (schematic design), 2016


7. **White, J.E., White, J.P.,** Mr. and Mrs. Mark Gabro Residence, [project budget: $355,894], design, contract documents, contract bidding, construction observation, residence to be completed in early 2017

8. **White, J.E.,** Developed Master Plan for new subdivision, Lubbock Habitat for Humanity, completed; and engineering infrastructure design being completed, Talkington Foundation for infrastructure development, grant awarded $502,000, 2016.

**HONORS / AWARDS**


2. **Beneytez-Duran, Rafael, Ophelia Mantz.** *Best International Space Design Award 2016*, Idea-Tops, Shenzhen, China, 2016

3. **Beneytez-Duran, Rafael, Ophelia Mantz.** *Colegio Oficial de Arquitectos de Madrid COAM 2016*, Award finalist, Madrid, Spain 2016

4. **Beneytez-Duran, Rafael, Ophelia Mantz.** *Simon Awards, Mies van der Rohe Foundation*, selected, Tobogan House, 2016


8. **Park, Kuhn.** *First Prize for ‘CoExistence’,* awarded by Chair of Busan Municipal Assembly Award, (with students: Tyler McBeth, Texas Tech University, Siyi Fu, Tongji University, and Gayeon Park, Dongseo University), Busan, South Korea, August 6, 2016


10. **Julie Zook.** Architectural Research Centers Consortium King Medal for Dissertation, presented by the doctoral faculty at the Georgia Institute of Technology College of Architecture, May 2016.

**RECOGNITIONS/PUBLICITY**


2. **Beneytez-Duran, R.,** (2016) *Mark Magazine,*, Mark 64, “Anything you want” Critic by David Cohn,


12. **Watkins, James.** 24 Frames KTTZ TV, Texas Tech University, ‘Profile Interview’, first aired in October 2016, continues to exist on YouTube.
EQUIPMENT AVAILABLE IN THE ARDC

3D Laser Scanner(s)

Leica HDS 3000 is a high definition laser scanner for the documentation of communities, historical architecture and archaeology. Uses include the collection of 3D point cloud data for historical structures documentation such as the Statue of Liberty and high definition documentation of archaeological sites such as Mesa Verde National Park.

Leica Scan Station C10 is an upgrade to the HDS 3000. This equipment includes the functionality of an optical total station which allows users to traverse, resection or use scan targets for maximum flexibility in dealing with site logistics. It also conducts general 360° and focused areas scans faster, can be setup & moved faster, lets users locate targets, register & geo-reference faster, and lets users check scan results faster.

http://today.ttu.edu/2012/11/school-of-architecture-acquires-state-of-the-art-equipment/

Global Positioning System (GPS) Survey Equipment

Trimble survey grade GPS is for site and structure documentation. Uses include positioning data set for inclusion into Geographical Information Systems (GIS) and surveying of architectural and archaeological sites. This is usually used in conjunction with the 3D laser scanner (Leica HDS 3000) on documentation projects to give survey co-ordinates to the point cloud data gathered by the scanner.

Optical Total Station (Survey Equipment)

This Leica survey instrument is for the documentation of architecture and communities. Uses include establishing control grids for the documentation of architecture, communities and archaeology. This is typically used in conjunction with the GPS survey equipment in our historical documentation projects.

Creaform Handheld 3D Scanner

The Creaform handheld 3D Scanner is a portable, high resolution (sub-millimeter) scanner. Uses include 3D scanning of existing objects, 3D archiving, complex shape acquisition, measurements archiving, digital models and mock-ups and rapid prototyping.

FLIR Infrared Camera

The FLIR Infrared Camera captures images in the infrared spectrum allowing the user to detect the difference in temperature between an area and its surroundings. The FLIR infrared camera is an excellent, non-contact, tool for Building Diagnostics, Energy Audits, Moisture Detection, and Restoration & Remediation.

Ground Penetrating Radar

The ground penetrating radar system uses radar pulses to image the subsurface. GPR can be used in a variety of media, including rock, soil, ice, fresh water, pavements and structures. It can detect objects, changes in material, and voids and cracks. Applications include nondestructive testing (NDT) of structures and pavements, locating buried structures and utility lines, and studying soils and bedrock. In environmental remediation, GPR is used to define landfills, contaminant plumes, and other remediation sites.
<table>
<thead>
<tr>
<th>Faculty</th>
<th>Primary Research Focus</th>
<th>Other Research Areas</th>
<th>Other Research Areas</th>
<th>Other Research Areas</th>
<th>Other Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aranha, Joseph</td>
<td>Vernacular architecture</td>
<td>Non-Western Architecture</td>
<td>Climate responsive architecture</td>
<td>Meaning and symbolism in architecture</td>
<td></td>
</tr>
<tr>
<td>Beneytez-Duran, Rafael</td>
<td>Atmospheric Architectural Events</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buelinckx, Hendrika</td>
<td>Formal design theory and methods</td>
<td>Visual spatial literacy</td>
<td>Shape algebra’s and grammars</td>
<td>Women in architecture</td>
<td>Architectural theory</td>
</tr>
<tr>
<td>Davis, Jimmy</td>
<td>Architectural Rendering/delineation/illustration</td>
<td>Watercolor</td>
<td>Art</td>
<td>Exhibition</td>
<td>Photography</td>
</tr>
<tr>
<td>Driskill, David</td>
<td>Urban Design</td>
<td>Sustainability</td>
<td>Programming</td>
<td>Architecture for High School Students</td>
<td>Community Design</td>
</tr>
<tr>
<td>Colangelo, Jessica</td>
<td>Urbanism</td>
<td>Environmental Aesthetics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ellis, Clifton</td>
<td>Cultural Landscapes</td>
<td>Antebellum South</td>
<td>Slavery</td>
<td>Domesticity</td>
<td>Renaissance &amp; Enlightenment</td>
</tr>
<tr>
<td>Fairbetter, La Gina</td>
<td>Creative Process</td>
<td>Mural Painting</td>
<td>Design Communication</td>
<td>Design Communication</td>
<td>Freehand Drawing</td>
</tr>
<tr>
<td>Flueckiger, Urs Peter</td>
<td>Architectural Design</td>
<td>Economical ecological Architecture and Sustainable Design</td>
<td>Design Build</td>
<td>Architectural Drawing</td>
<td>Architectural Drawing</td>
</tr>
<tr>
<td>Glassell, Mari Michael</td>
<td>Urban Theory and Design</td>
<td>Urban Diagnostics</td>
<td>Multi-Family Housing / Density</td>
<td>Adaptive Re-Use</td>
<td>Foundation Design Studio</td>
</tr>
<tr>
<td>Gonzales, Manuel</td>
<td>Drawing/Painting</td>
<td>Digital Media</td>
<td>Mixed Media</td>
<td>Alternative Print Making</td>
<td>Photo Process</td>
</tr>
<tr>
<td>Gonzales, Robert</td>
<td>American History</td>
<td>Latin American Architecture</td>
<td>Border Architecture</td>
<td>Design</td>
<td>American Studies</td>
</tr>
<tr>
<td>Haq, Saif</td>
<td>Spatial Cognition</td>
<td>Space Syntax</td>
<td>Architecture and Urban Theory</td>
<td>Non Western Architecture</td>
<td>Health Care Facilities Design</td>
</tr>
<tr>
<td>Hill, Glenn</td>
<td>Energy + Design</td>
<td>Visualization</td>
<td>General Systems Theory</td>
<td>Computer Simulation of Buildings</td>
<td>Integrated Architecture</td>
</tr>
<tr>
<td>Isern, David</td>
<td>Urbanism</td>
<td>Urban Mapping</td>
<td>Theory</td>
<td>History of Architecture</td>
<td></td>
</tr>
<tr>
<td>Kripa, Ersela</td>
<td>Hackable Infrastructures and Public Space for Equitable Cities</td>
<td>Military, security, surveillance and their effects on urban environments</td>
<td>US-Mexico border urban research through invisible vectors of environmental issues</td>
<td>Digital fabrication tools and material processing in service of affordable constructions</td>
<td>Empowering women in architecture</td>
</tr>
<tr>
<td>Mantz, Ophelia</td>
<td>Environment and Architecture</td>
<td></td>
<td>Sustainability</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McReynolds, Victoria</td>
<td>Installations</td>
<td>Terrain vague</td>
<td>Memory space</td>
<td>Design pedagogy</td>
<td>Steps and stairs</td>
</tr>
<tr>
<td>Mueller, Stephen</td>
<td>Security and Public Space</td>
<td>Emerging Technologies</td>
<td>Military Urbanism</td>
<td>Urban Morphometrics</td>
<td></td>
</tr>
<tr>
<td>Neiman, Bennett</td>
<td>Design</td>
<td>Process</td>
<td>Improvisation</td>
<td>Imagination</td>
<td>Creativity</td>
</tr>
<tr>
<td>Park, Kuhn</td>
<td>Computational</td>
<td>Building</td>
<td>Information</td>
<td>Digital Media Arts</td>
<td>Physical</td>
</tr>
<tr>
<td>Name</td>
<td>Design</td>
<td>Information Modeling</td>
<td>Envisioning</td>
<td>Computing</td>
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<tr>
<td>Perl, Robert</td>
<td>Architecture</td>
<td>Design Methods</td>
<td>Sustainability</td>
<td>Design Thinking</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Visualization</td>
<td></td>
</tr>
<tr>
<td>Raab, Peter</td>
<td>Architectural Design</td>
<td>Construction</td>
<td>Structural Analysis</td>
<td>Design-Build</td>
<td></td>
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<tr>
<td></td>
<td>+ Fabrication</td>
<td></td>
<td></td>
<td>Sustainability</td>
<td></td>
</tr>
<tr>
<td>Armando Rigau</td>
<td>Architecture and</td>
<td>Formal Analysis</td>
<td>Materials</td>
<td>History in Architecture</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
<td></td>
<td>Research in Concrete</td>
<td></td>
</tr>
<tr>
<td>Shacklette, Ben</td>
<td>Architectural</td>
<td>Participatory</td>
<td>Vernacular Architecture</td>
<td>Service learning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>design</td>
<td>processes in</td>
<td>of the American</td>
<td>and Community Engagement</td>
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<tr>
<td></td>
<td></td>
<td>community design</td>
<td>Southwest</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Charles Sharpless</td>
<td>Architecture</td>
<td>Representation</td>
<td>Curation</td>
<td>Historic Preservation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Design</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smith, Gary</td>
<td>Historic Preservation</td>
<td>Historic Structures</td>
<td>Documentation</td>
<td>Adaptive Use</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Reports</td>
<td></td>
<td>Ethics</td>
<td></td>
</tr>
<tr>
<td>Stiphany, Kristine</td>
<td>Latin American</td>
<td>Housing and</td>
<td>International</td>
<td>Civic Data for</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Architecture and</td>
<td>Infrastructure</td>
<td>Development</td>
<td>Critical Urban Mapping</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Urbanism</td>
<td></td>
<td>Policy</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taylor, Chris</td>
<td>Embodied fieldwork</td>
<td>Land art /</td>
<td>Interdisciplinary</td>
<td>Design-build</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>earthworks</td>
<td>practice</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Torres, MaryAlice-</td>
<td>Community Design</td>
<td>Urban Design</td>
<td>Downtown Revitalization</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Historic Preservation</td>
<td></td>
</tr>
<tr>
<td>Wade, Derrick</td>
<td>Sensory design</td>
<td>Local government</td>
<td>Client relationships</td>
<td>Residential design</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>and construction</td>
<td></td>
</tr>
<tr>
<td>Watkins, James</td>
<td>Free Hand Drawing</td>
<td>Water Color</td>
<td>Architectural Ceramics</td>
<td>Ceramic Art</td>
<td></td>
</tr>
<tr>
<td>White, Jim</td>
<td>Housing</td>
<td>Accessibility</td>
<td>Site design</td>
<td>Materials and methods</td>
<td></td>
</tr>
<tr>
<td>White, John</td>
<td>Historic Preservation</td>
<td>Architecture</td>
<td>Adaptive Use</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zook, Julie</td>
<td>Spatial morphology</td>
<td>Health &amp; healthcare</td>
<td>Urbanism</td>
<td>Design and visual</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>narrative</td>
<td></td>
</tr>
<tr>
<td>Zugay, Brian</td>
<td>Churches</td>
<td>Religious Architecture</td>
<td>American Architecture</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>