Accomplishments in
Scholarship, Creative Activities, and Research

Compiled by Clifton Ellis, PhD., Associate Dean for Research
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 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 exhibition of faculty productions. A list of faculty expertise is also available.

In the academic year 2013-2014 CoA faculty have written three book chapters and five full papers, lectured in 15 national and international venues, and displayed their creative work in 45 exhibitions. Additionally, they have organized conferences and workshops nationally, served as peer reviewers of journal articles and books, panelists, nominators, and editors. Full details of their research related activities are presented in the following pages.

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

**Book Chapters**

**Journal Articles**

**Abstracts Published**
International Conference on Interdisciplinary Social Sciences, July 30-August 1, 2013 Charles University, Prague, Czech Republic


Invited Publications


PRESENTATIONS AND EXHIBITIONS

Conference/Symposia Presentations


3. Driskill, D., (2013), ‘Community Engagement’ presentation to the AIA Dallas Leadership Academy, November, 2013, Dallas, Texas


Conference Proposals


5. Shacklette, B., ‘The Scholarship of Engagement: How collaborations between architectural design studies and underserved communities, in a context of partnership and reciprocity, encourage the
exchange of knowledge’, Twelfth International Conference on New Directions in the Humanities 11-13 June 2014 Universidad CEU San Pablo Madrid, Spain, (March 20, 2014 rejected)


Exhibitions

1. Al Ajlouni, R., ‘Quasi-crystal Patterns in Architecture’, Verge Gallery, School of Architecture, the University of Sydney, June 2014, Sydney, Australia.

2. Campbell, D., ‘title of art’, an exhibition of Texas Tech College of Architecture Art Faculty, Library, Texas Tech University, February 2014, Lubbock, Texas


5. Davis, J., ‘Raising Cain’ (won Third Place Award) and ‘Road to Taos’ and ‘High Road’, West Texas Watercolor Society Spring Exhibition (regional juried show), Juror: Jerry Yarnell, Buddy Holly Center, Lubbock, TX. May 2014


15. **Gonzales, M., ‘Works’,** an exhibition of Texas Tech College of Architecture Art Faculty, Library, Texas Tech University, Lubbock, Texas March 201
16. **Gonzales, M., ‘Printmaking’,** guest artist/lecturer in printmaking, Coastal Bend College, Beeville, Texas February 2014
17. **Jaddo, L., ‘Off Center’,** group exhibition of faculty, College of Architecture Gallery, Texas Tech University, Lubbock, Texas, March 2-30, 2014
24. **Louden, E., ‘Migrant Worker Housing’,** Lubbock Garden and Arts Annual Photography Exhibition, non-juried, public art exhibition, 10 images exhibited, three sold, Lubbock Garden and Arts, Lubbock, Texas May-June 2014
25. **Louden, E., ‘Cowhead Mesa Rock Art Archaeology Research Exhibition’,** Collaboration research with Dr. Stance Hurst, TTU Archaeology Department, Lubbock Lake Landmark Exhibition Hall, Lubbock, Texas January-May 2014
26. **Martin, M., ‘Wooden Landscapes’,** group exhibition of faculty, College of Architecture Gallery, Texas Tech University, Lubbock, Texas March 2-30, 2014
27. **McReynolds, V., ‘Wandering Above a Sea of Fog’,** Wunderlich Gallery, The University of Melbourne, Melbourne, Australia April 2014
29. **Nesbit, Jeffrey S. ‘Stitch Morphologies: Shanghai’.** 2014 ACSA/AIK International Conference: Open Cities Research and Design Project Exhibition, EWHA Women’s University, Seoul, South Korea June 21 – 23, 2014
32. **Park, K., ‘OPEN2’,** the 2nd International Professor Workshop Exhibition, installation projects from the Interactive Graphics workshop the Media Museum, Communication University of China, Beijing, China, March 25-April 1, 2014
33. **Park, K., ‘aMachine & DiMeND’,** the First Friday Art Trail, installation projects from the aMachine graduate studio and media installations from the Digital Media in Neoteric Dimension, CASP 5&J Gallery, Louise Hopkins Underwood Center for the Arts, Lubbock, Texas, May 2, 2014
34. **Perbellini, M., White D., ‘Verona Lab’,** CoA Study Abroad Summer Studio 2013 at Marmomacc Stone Academy, 48th Marmomacc, Verona, Italy, September 2013;
35. **Perbellini, M., ‘2014 Student Biennial Exhibition’,** AIA Houston, Architecture Center, Traveling Exhibition with TSA
36. Perbellini, M., ‘Art + Architecture’, Arts Festival, Interdisciplinary Exhibition of Smart Materials Research at the Lubbock Civic Center, Lubbock, TX, April 2014;
41. Watkins, J., One Person Exhibition, 20 pieces, Texas A&M University-Commerce, Commerce, Texas April 2014
42. Watkins, J., One Person Exhibition, 20 pieces, Tarrant County College, Hurst, Texas March 2014
43. Watkins J., Group exhibition, one piece, Tweed Museum, the University of Minnesota Duluth, in Duluth, Minnesota. August 1st 2014
44. White, J.P., ‘Chimneys’, Photograph Exhibit, College of Architecture Library, Texas Tech University, Lubbock, Texas April 2014

FUNDED RESEARCH

Ongoing Funded Research
1. Al Ajlouni, R. ‘God is the Light of the Heavens and the Earth’, The Hamad bin Khalifa Fellowship, the Fifth Biennial Hamad bin Khalifa Symposium on Islamic Art, November 9-11, 2013, Palermo, Sicily.

Research Grants and Fellowship Proposals

RELATED SERVICE

Editor / Peer Reviewer / Jury Member / Panelist / Curator / Correspondent etc.
3. Aranha, J., Reviewer, Urban Development Category, Institute of International Education and the Global Innovation Initiative (GII) funded by the U.S. Department of State, the UK Department of Business, Innovation and Skills and the British Council. Fall 2013
4. Buelinckx, H., Panelist, the Diagram, College of Architecture Dialogues, Texas Tech University, Lubbock, Texas, Spring 2014
7. Gomez, J., Panelist, the Diagram, College of Architecture Dialogues, Texas Tech University, Lubbock, Texas, Spring 2014
9. Haq, S., 3 full papers in Journal of Environmental Psychology, Elsevier Publications
10. Haq, S., 2 full papers, Environment and Behavior, Sage Publications
15. Haq, S., 5 research proposals, Center for Health Design’s New Investigator Award
16. Haq, S., 4 research proposals Center for Health design’s New Investigator Award (second call)
17. Haq, S., 14 projects in stage one and 5 projects in stage two, Center for Health Design Renovation/Remodel showcase competition
23. Neiman, B., Panelist, CoA Dialogues, Genesis of Form, College of Architecture, Texas Tech University, October 11, 2013, Lubbock, Texas
24. Park, K., Paper Reviewer, Annual University of Southern California BIM Symposium: BIM GAP, August 22, 2014
25. Shacklette, B., Associate Editor, The International Journal of Social, Political and Community Agendas in the Arts Volume 8, Issue 2 2014
27. Taylor, C. Curator, Land Arts 2013 Exhibition, Louise Hopkins Underwood Center for the Arts, LHUCA Warehouses on Mac Davis Lane, Lubbock, Texas, 4 April – 2 May 2014
Invited Lectures


4. Louden, E., ‘Dickey House Restoration and Rehabilitation’, Invited speaker by the Blackshear Group, kickoff fund raising even, Dickey House, April 2014, Lubbock, Texas


PROFESSIONAL / DESIGN / GRAPHIC / PRODUCTION WORK

1. **Gomez, J.**, *4000 sf. residence in Bosque Real, Mexico City*, SD, DD, CD. Full Design and drawings. In City review process for permits, to begin construction as soon as permits are released. February-December 2013.

2. **Pongratz, C., Perbellini, M.**, *Pearl Residence*, 8-apartments complex, residential, new construction, on 12,000 sq.ft. lot area, Lubbock, TX, 2014, construction in progress


HONORS / AWARDS

1. **Gonzalez, R.**, *Texas Tech University Hemphill Wells New Professor Excellence in Teaching Award*, 2014


3. **Nesbit, Jeffrey S.** *First Place Merit Award*, Stitch Morphologies: Shanghai. 2014 ACSA/AIK International Conference: Open Cities Research and Design Project Competition, June 21, 2014. EWHA Women’s University, Seoul, South Korea.
RECOGNITIONS/PUBLICITY

5. Perbellini, M., featured in Renzo Gastaldo, L’Architetto che tiene cattedra in Texas, in L’Arena, Main Regional Newspaper, Verona, Italy, April 08, 2014

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.

**FACULTY EXPERTISE**

College of Architecture, Texas Tech University

<table>
<thead>
<tr>
<th>Name</th>
<th>Specialization</th>
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<tbody>
<tr>
<td>Ajlouni, Rima</td>
<td>Historic Preservation, Photogrammetry, Digital methods and Computation, Islamic Art and Architecture, Patterns and geometry</td>
</tr>
<tr>
<td>Aranha, Joseph</td>
<td>Vernacular architecture, Non-Western Architecture, Climate responsive architecture, Meaning and symbolism in architecture</td>
</tr>
<tr>
<td>Buelinckx, Hendrika</td>
<td>Formal design theory and methods, Visual spatial literacy, Shape algebra's and grammars, Women in architecture, Architectural theory</td>
</tr>
<tr>
<td>Davis, Jimmy</td>
<td>Architectural Rendering/delineation/illustration, Watercolor, Art, Exhibition, Photography</td>
</tr>
<tr>
<td>Driskill, David</td>
<td>Urban Design, Sustainability, Programming, Architecture for High School Students, Community Design</td>
</tr>
<tr>
<td>Ellis, Clifton</td>
<td>Cultural Design, Antebellum South, Slavery, Domesticity, Renaissance &amp; Enlightenment</td>
</tr>
<tr>
<td>Fairbetter, La Gina</td>
<td>Creative Process, Mural Painting, Design Communication, Design Communication, Freehand Drawing</td>
</tr>
<tr>
<td>Flueckiger, Urs Peter</td>
<td>Architectural Design, Sustainable Design, Design Build, Architectural Drawing</td>
</tr>
<tr>
<td>Gomez, Javier</td>
<td>Architectural Design, New Architecture in Historical Buildings or Sites, XVI-XVIII Spanish Colonial Architecture</td>
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<tr>
<td>Gonzales, Manuel</td>
<td>Drawing/Painting, Digital Media, Mixed Media, Alternative Print Making, Photo Process</td>
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<tr>
<td>Gonzales, Robert</td>
<td>American History, Latin American Architecture, Border Architecture, Design, American Studies</td>
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<tr>
<td>Haq, Saif</td>
<td>Spatial Cognition, Space Syntax, Architecture and Urban Theory, Non Western Architecture, Health Care Facilities Design</td>
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<tr>
<td>Jaddo, Lahib</td>
<td>Art and Architecture, Beginning Design</td>
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<tr>
<td>Louden, Elizabeth</td>
<td>Historic Preservation, Architectural Documentation, Large Format, 3-D Laser Scanning, Historic Building Materials, Cultural Sites and Building Assessment</td>
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<tr>
<td>Martin, Michael</td>
<td>Furniture, Sustainability, Affordable Housing</td>
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<td>McReynolds, Victoria</td>
<td>Installations, Terrain vague, Memory space, Design pedagogy, Steps and stairs</td>
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<tr>
<td>Neiman, Bennett</td>
<td>Design, Process, Improvisation, Imagination, Creativity</td>
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<tr>
<td>Nesbit, Jeff</td>
<td>Design, Fields, Urbanism, Decay, Theory</td>
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<tr>
<td>Park, Kuhn</td>
<td>Computational Design, Building Information Modeling, Information Envisioning, Digital Media Arts, Physical Computing</td>
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<tr>
<td>Perbellini, Maria</td>
<td>Design process, Design strategies, Parametric surface, Digital craft and, Material systems</td>
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<td><strong>Perl, Robert</strong></td>
<td>Architecture</td>
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<tr>
<td><strong>Raab, Peter</strong></td>
<td>Architectural Design + Fabrication</td>
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<td><strong>Shacklette, Ben</strong></td>
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<td><strong>Smith, Gary</strong></td>
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