Faculty Accomplishments in Research, Scholarship, and Creative Activity
January 1 to December 31, 2017

The Architecture Research and Design Center (ARDC) facilitates and coordinates research and design activities within the College of Architecture (CoA). The Center 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 2017, CoA faculty have published one book, four book chapters, thirteen peer-reviewed journal articles, and eight conference proceedings. Faculty have presented eighteen peer-reviewed papers at national and international conferences and have given sixteen invited lectures in national and international venues. Faculty have exhibited their creative work in eighteen international and national venues.

Two of our faculty are involved in conducting ongoing research funded by the United States Department of Education for an HSI STEM Grant and by the Federal Democratic Republic of Ethiopia Ministry of Education for the International University Partnership for the Establishment of Postgraduate Programmes in Ethiopia. This funding exceeds $6 million. Faculty have submitted fourteen proposals for funded research, nine of which were fully funded and totaling $45,500.

Additionally, faculty 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
Elizabeth Sasser Professor of Architectural History
College of Architecture
PUBLICATIONS

Books

Book Proposals

Book Chapters


Journal Articles
Colangelo, Jessica. “Pattern Practice: Beyond the Floral in Venturi, Rauch and Scott, Brown’s Best Products Showroom.” Room One Thousand , no. 6 (April 2018).


Abigail Friendly and **Kristine Stiphany** “Paradigm or Paradox? The Cumbrous Impasse of the Participatory Turn in Brazilian Planning,” *Urban Studies*. Forthcoming.


**Zook, Julie.** “Cut to the pool.” In J. Bonner (Ed.) *Art Papers*, 41(1), 8-9.

**Conference Proceedings**

**Berhie, Girmay** and Saif Haq. “Locational preferences and transportation mode choices of different socio-economic groups in the US: A Space Syntax included case study of two gridded and two nongridded US cities,” *Proceedings of 11th International Space Syntax Symposium*, Lisbon, Portugal, Teresa Heitor, Miguel Serra, Joao Pinelo Silva, Maria Bacharel and Luisa Cannas da Silva, editors, Instituto Superior Técnico, Departamento de Engenharia Civil, Arquitetura e Georrecursos, Portugal, Publisher

**Isern, David J.** "AEROTROPOLIS: Its History and Evolution of airports as situational places of autonomous congestion," Full Paper, *Association of Collegiate Schools of Architecture* [ACSA], 2017 Fall Conference; Marfa, Texas. [Blind-peer reviewed abstract accepted, 31% acceptance rate - publication forthcoming.]


Reports


White, John. Texas Tech University Administration Building, preparation Recorded Texas Landmark Historical Marker nomination, Texas Technological College (Texas Tech University) Research and assemble history and historic photographs supporting nomination. In progress.

Citations in Peer-Reviewed Journals and Books

Haq, Saif. 43 citations
**Peer Reviewed Presentations**


**Beneytez-Duran, Rafael and Peter Raab.** “Towards a new Notion of Geography” . Association of Collegiate Schools of Architecture Fall Conference, Marfa, Texas (13 October 2017)


**Park, Kuhn** with Prof. Wei Dong. OPEN5.js: Motion Graphics 运动图形, Advertisement Museum of China, Beijing, China, Mar 20th ~ Apr 9th 2017.

**Park, Kuhn.** "System of Changsin 창신의 체계," Changseong-dong Laboratory Gallery, Seoul, South Korea, July 4th ~ 17th 2017

**Park, Kuhn.** "Future House 2020," UIA 2017 Seoul World Architects Congress (Union Internationale des Architects), Mapo Oil Tank Culture Park, Seoul, South Korea, September 1-30, 2017


**Shacklette, Ben.** “Designed for Repair-ability: Learning from the German Country Schools of Gillespie County, Texas” ACSA-Association of Collegiate Schools of Architecture 106th Annual Meeting, The Ethical Imperative, March 15-17, 2018 Denver, Colorado, Initial Full Paper Submitted October 3, 2017-Notification of acceptance received December 12, 2017


Directed Student Work Resulting in Peer-Reviewed Awards and Publications


Invited Lectures

Beneytez-Duran, Rafael. Materiales, COAM. Colegio Oficial de Arquitectos de Madrid. (Equivalent to AIA or any other national of professional institutions) with Carlos Arroyo and Esteban Penelas. “Tobogan House Technological Description and Challenges” February 2017. Projection of the video and phone conference.

Bulinckx, Hendrika. Guest Speaker. Presentation. Women and Architecture. Event of the Shape the Conversation Exhibits and Events- 08Feb-02March-AIA-Austin Chapter, xx, Austin, TX. Feb. 2017. Exhibit was curated by former students. (see Attachment)

Bulinckx, Hendrika. Roundtable Discussion Leader. “Let’s Start the Conversation,” Austin, Texas. Feb. 2017. Participants included representatives of Austin-based firms such as Jana McCann, FAIA; J. Orr, Principal of Studio Balcone; H. McKinney, FAIA, LEED AP BC+C Principal of McKinney York Architects, and Emily Little, FAIA, Principal of Claryton & Little Architects and others.


Shacklette, Ben. “Architectural Freehand Drawing: A One-Hour Short Course” Tech University WKMC Architects August 3, 2017, Sponsored by Del Mar College, Corpus Christi, Texas,


Watkins, James. West Chester University, Lecture and Workshop, West Chester, Pennsylvania, March 5-8.


Peer-Reviewed Exhibitions


Davis, James, West Texas Watercolor Society Fall 2017 Exhibit, Buddy Holly Fane Arts Center, Lubbock, TX, Judged, Exhibited: High Road, November 2017.

Isern, David J. Amplitud de Lima y sus Barriadas. Colegio de Arquitectos del Peru, Lima, Peru. An exhibition that featured research and project proposals of the interpretation of shanty-towns in Lima, Peru, and the economic effects it has in the urban social-spatial development.


Watkins, James. West Chester University, One-Person Exhibition, West Chester, Pennsylvania. October 5-30.


**Fund ed Research**

**Ongoing Funded Research**

**Joe Aranha:** Stephen Ekwaro-Osire - Lead Principal Investigator – Dept. of Mechanical Engineering. Joseph Aranha - Principal Investigator, Along with 5 other Principal Investigators (allocation credit 5% of a total $624,464) Sponsoring Agency: Federal Democratic Republic of Ethiopia Ministry of Education

Title: International University Partnership in the Establishment of Postgraduate Programmes in Ethiopia.

**Joe Aranha:** Stephen Ekwaro-Osire - Lead Principal Investigator – Dept. of Mechanical Engineering

Joseph Aranha - Principal Investigator, Along with 5 other Principal Investigators (allocation credit 15% of a total $221,054) Sponsoring Agency: Federal Democratic Republic of Ethiopia Ministry of Education

Title: International University Partnership in the Establishment of Postgraduate Programmes in Ethiopia.

**Gonzalez, Robert.** Principal Investigator for the $5.9 million Department of Education HSI STEM Grant.

**Grants and Fellowships**

**Joe Aranha:** “Field study/documentation and archival research of use of the city and transformation of urban spaces in Seville, Spain during Holy Week (Semana Santa) and Corpus Christi.”

COA Research Funds for travel and equipment, $2,000

TTU Scholarship Catalyst Program Grant for travel to Seville, Spain $2770

**Rafael Beneytez-Duran:** Graham Foundation for Individuals 2017. (Not funded) “No Molds but Modulators” proposal for a book. The project surveys a new opportunity to revisit the history and present sensibilities of “nonobjectual architectures” based in a hidden manifest and a new theory of form and information. The grant would be used for travel costs and authors interviews.

**Rafael Beneytez-Duran:** Scholarship Catalyst Program 2018, submitted in Nov. 2017. Request pending. “No Molds but Modulators” proposal for a book. The project surveys a new opportunity to revisit the
history and present sensibilities of “nonobjetual architectures” based in a hidden manifest and a new theory of form and information. The grant will be used for travel costs and authors interviews.

Shacklette, B. “The German Country Schools of Gillespie County, Texas” CH Foundation, Inc., 2018 Preliminary Proposal for 2019 Funding, amount: $10,015.00


Taylor, Chris. “Military Entropic Research Network: Investigative arts practices in the landscapes of warfare, defence and training.” Application for funding to Arts and Humanities Council, United Kingdom by Kingston University. PI: Matthew Flintham, ECR Fellow, Faculty of Art, Design and Architecture, Kingston University. (not funded)

Taylor, Chris. Fundraising for Land Arts of the America West
Andrea Nasher. “Operational support for Land Arts of the American West.” $11,000
James Family Foundation. “Land Arts of the American West Scholarships.” $7,000
Art Table. “Operational support for Land Arts of the American West.” $10,000
Ellen Donahue. “Operational support for Land Arts of the American West.” $300
Amy Wolfe. “Operational support for Land Arts of the American West.” $1,000

Peter S. Raab. Integrative Design Models for Architectural Education.: Big XII Faculty Fellowship, awarded by Texas Tech University to visit Iowa State University and document several contemporary architectural projects. Award amount: $2,000.

Julie Zook: “Examining the Links between Emergency Department Performance and Design: The Emergency Department Design and Performance Database.” Funding Agency: Facility Guidelines Institute
Julie Zook - Lead Principal Investigator
$ 17,046

Julie Zook: “A Multiple Case Study of Emergency Department Performance and Design”
Julie Zook - Lead Principal Investigator
Funding Agency: The Center for Health Design
$ 10,000


Zook, Julie. “Identity and resistance in global contexts” Principal Investigator, Alec Cattell. Texas Tech Center for Global Communication. $30,000. To support an undergraduate research event in conjunction with classes taught in by the investigators (six faculty from various departments at Texas Tech).

Zook, Julie. “A Multiple Case Study of Emergency Department Performance and Design.” Facilities Guidelines Institute Burgun Fellowship. $17,046 (not funded)
**Zook, Julie.** Getting It Together: An Evidence-Based Benchmarking Database and Dashboard on Intensive Care Unit Design to Support Staff Performance. Center for Health New Investigator Award. $10,000 (not funded)

**Honors and Awards**

**Upe Flueckiger,** Inducted into the Texas Tech University Teaching Academy, 2017

**Upe Flueckiger,** Awarded Florian A. Kleinschmidt Award by the Texas Tech Architecture Alumni Association to recognize individuals who have attained distinguished achievements in their careers, in their careers and who, because of the special qualities of those achievements, have represented Texas Tech University in an exemplary manner 2017. TTU Alumni Reception, Texas Society of Architects Convention, Austin, Texas, Thursday, November 9, 2017.

**Gonzalez, Manuel,** Received the Merit Award in Printmaking, from the ArtCenter of Corpus Christi,

**Park, Kuhn.** Rejuvenation, Excellence Award by the Executive Committee of BIACF and the President of the Korean Institute of Architects, Busan, South Korea, Aug 5th 2017 (with students: Miyuki Sakuyama from Kanto Gakuin Univ. Japan, Yujin Xue from Tongji Univ. China, and Donggkeong Lee from Busan National Univ. South Korea)

**Recognition and Publicity**

**Rafael Beneytez-Duran:** Casa en Madrid. The Tobogan House is published on Front page and pages 28-33. Includes a critical writing on the house by Anton Capitel, writer on architecture critic, full professor at ETSAM and RIBA awarded Scholar.

**Beneytez-Duran, Rafael** and Ophelia Mantz. **EL PAIS.** Main Spanish Daily Newspaper. 23 Abril 2017. On Tobogan House, Critic essay by Anatxu Zabalbeascoa.


**Flueckiger, Upe.** NPR 89.1 KTTZ Lubbock Interview of Upe Flueckiger by Clint Barrick, on Prof. Flueckiger’s book *How Much House: Thoreau, Le Corbusier, and the Sustainable Cabin* of “_ Aired on: Monday Wednesday March 22, 2017, 2017 09:00 AM, part of the Radio Magazine The Front Row._

**Flueckiger, Upe.** Book review and interview by Krin Salm of Prof. Flueckiger, author of *How Much House: Thoreau, Le Corbusier, and the Sustainable Cabin.* Swiss-German National Public Radio’s
program Small home Happiness Alone. Aired on: Tuesday January 03, 2017 5:06PM Swiss Time, part of Kultur Kompakt Website. Selected text, photographs by Urs Peter Flueckiger. Link to Audio: Book review between minute 17:00 through 21:00.


Saif Haq: Directed students who won 1st Prize in the Healthcare AIA-SES student competition (Lauren Saab, Ryan Chapman, Karla Perez), Houston, TX. Feb. 16, 2017


Neiman, Bennett. Improvisational Assemblages. a series of digital design experimentations employing order and variation on a them, created between 1/1/17 - 9/13/17. 88 photomontage collages; 70 drawing-based collages. Posted to Instagram. number of followers increased from 270 to 2500. https://www.instagram.com/bennettneiman/

Taylor, Chris. Citations in Film:
Through the Repellent Fence: A Land Arts Film. Dir. Sam Wainwright Douglas. Documentary featuring Postcommodity also including Lucy Lippard, Matt Coolidge of the Center for Land Use Interpretation and Chris Taylor of Land Arts of the American West at Texas Tech. Premiere at the Museum of Modern Art Doc Fortnight Festival with additional screenings at SXSW 2017, Full Frame Documentary Film Fest, Sarasota Film Festival, Scottsdale Museum of Contemporary Art, and Texas Tech University, http://throughtherepellentfence.com

Taylor, Chris. Citations in Books, Catalogs, Journals, and Magazines:

Taylor, Chris. Citations on Radio:


Watkins, James. Profile/Interview by Kristen Barton, [http://today.ttu.edu/posts/2017/02/james-watkins](http://today.ttu.edu/posts/2017/02/james-watkins)
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-equiment/

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

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<td>Women in architecture</td>
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<tr>
<td>Davis, Jimmy</td>
<td>Architectural Rendering/delineation/illustration</td>
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<td>Colangelo, Jessica</td>
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<td>Ellis, Clifton</td>
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<td>Flueckiger, Urs Peter</td>
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<td>Glassell, Mari Michael</td>
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<td>Gonzales, Manuel</td>
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<td>Haq, Saif</td>
<td>Spatial Cognition</td>
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<td>Hill, Glenn</td>
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<td>General Systems Theory</td>
<td>Computer Simulation of Buildings</td>
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<tr>
<td>Name</td>
<td>Research Interest</td>
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<td>Isern, David</td>
<td>Urbanism</td>
<td>Urban Mapping</td>
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<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>
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<td>Mantz, Ophelia</td>
<td>Environment and Architecture</td>
<td>Sustainability</td>
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<td>McReynolds, Victoria</td>
<td>Installations</td>
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<td>Mueller, Stephen</td>
<td>Security and Public Space</td>
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<td>Neiman, Bennett</td>
<td>Design</td>
<td>Process</td>
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<tr>
<td>Park, Kuhn</td>
<td>Computational Design</td>
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<td>Perl, Robert</td>
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<td>Raab, Peter</td>
<td>Architectural Design + Fabrication</td>
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<td>Rigau, Armando</td>
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<td>Shacklette, Ben</td>
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<td>Stiphany, Kristine</td>
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<td>Taylor, Chris</td>
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<td>Torres Macdonald, Mary Alice</td>
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<td>Name</td>
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