BIOGRAPHICAL SKETCH

Thomas Fowler IV, DPACSA, FAIA

Architecture Department
Cal Poly State University
San Luis Obispo, CA

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Professor Fowler has 20 plus years of professional practice with over 30 years of teaching. He has been the director of Cal Poly's graduate architecture program since 2013 and also co teaches the graduate interdisciplinary architecture and architectural engineering building design studio. He also teaches in the undergraduate program third year design studios and building technology courses.

Professor Fowler has created imaginative design studios and multi-disciplinary collaborations with other departments and has developed invaluable links between the academy and professional practice. Among the student research programs he founded are the Community Interdisciplinary Design Studio (CIDS), which initiates collaborative community projects with other departments, including New Media Arts, English, Liberal Arts, Computer Science, as well as design and construction-related departments.

In recognition of the program's success, Tom has been elevated to Fellowship in the AIA, received the ACSA Creative Achievement Award and Distinguished Professor Recognitions, the prestigous Cal State Systems Wang Teaching Award of excellence, two AIA Education Honor Awards, the Cal Poly Distinguished Teaching Award, and the University President's Serving Learning Faculty Award. Inspired by its multi-disciplinary community projects, the University launched its first cross-college degree program, Liberal Arts and Engineering Studies.
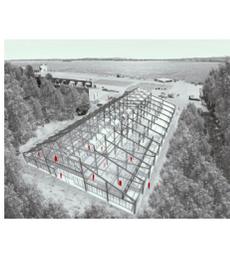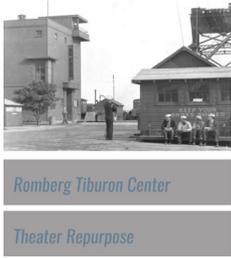
Professor Fowler was instrumental in advancing a new curriculum at Cal Poly, including restructuring the third-year program to include Comprehensive Building Design and creating multiple ways for students to experience, learn, and self-assess. He also collaborated on the creation of "Design Collaboratory," an interdisciplinary fourth-year design studio with Architectural Engineering and Construction Management, which received an NCARB Prize.

Professor Fowler is continually creating opportunities to bridge the gap between the profession and education. Ongoing programs include "Internnect," created with a practitioner / former student to bring underrepresented high school students to Cal Poly to experience college architectural education; Best of Show, where practitioners review student work; an advanced high-rise building design studio and internship with SOM in San Francisco; and, real world projects for California State University San Francisco's Satellite Biological Ocean Research Center and a master plan and design-build project for Polytechnic College in Same, Tanzania, Africa.

In addition to his academic success, Professor Fowler has served on the board of directors of the AIA, AIAS, NAAB, ACSA and fhe TSD (Tau Sigma Delta Honor Society). Since 1985 he has chaired and participated on both domestic and international reaccrediation visits (to date 35 visits with over half of them chaired).
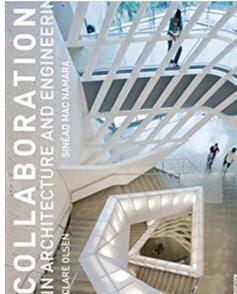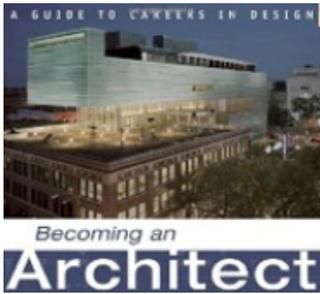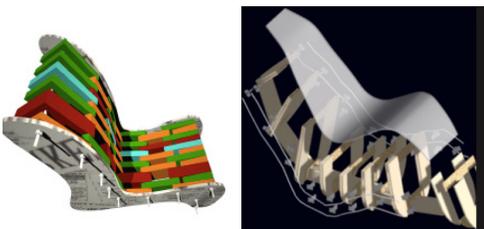
SUMMARY (Selected)

Commuity Design-Build Proposals

Romberg Tiburon Center

Theater Repurpose

ESTUARY & OCEAN SCIENCE CENTER   January-March 2018

Same Polytechnic College   April-June 2018

Tanzania Design Collaboratory   2014-2017

2 Towns

Design Studio Work

selected student work 2010/2011
the fowler studio

fowler studio
Selected Student Design Studio Work 2008 - 2010

architecture
2007 - 2010   Design Collaboratory
College of Architecture and Environmental Design
Cal Poly, San Luis Obispo, CA

Book Chapters

A GUIDE TO CAREERS IN DESIGN
Becoming an Architect

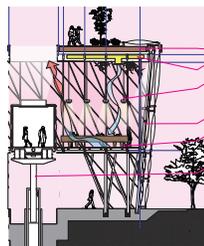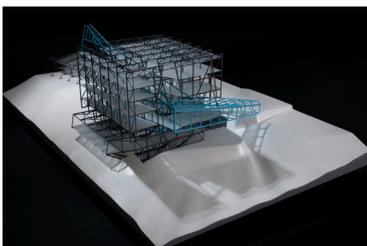COLLABORATION IN ARCHITECTURE AND ENGINEERING   SINÉAD MAC NAMARA   CLARE OLSEN

Exhibitions

Award Winning Design Studio Work

projectIRIS

Interdisciplinary Design-Build Work (Tanzania, Africa)

CURRICULUM VITAE

Education

Cornell University
College of Architecture, Art and Planning, Ithaca, NY
Master of Architecture in Architectural Design, May 1994

New York Institute of Technology / Old Westbury
Campus, Westbury, NY
Bachelor of Architecture, January 1984
(Rome, Italy, Summer 1982)

Licensure

New York State Architects License No. 032322-1

National Council of Architectural Registration Boards
(NCARB) Certification No. 38053

Biographical Information

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College of Architecture and Environmental Design
1 Grand Ave
San Luis Obispo, California 93401

Positions Held

California Polytechnic State University, Department of
Architecture, San Luis Obispo, CA, 1995-present

- Director, Graduate Program for Master of Science of
  Architecture (MSARCH), 2013-present

- Professor, 2007-present

- Assistant Department Head, 2007-2012

- Interdisciplinary Projects Group (IPG), Co-Founder /
  Director, 2006-2012

- Community Interdisciplinary Design Studio (CIDS),
  Founder / Director, 1997-present

- Associate Department Head, 2002-2006

- Associate Professor, 2001-2007

- Third-Year Design Coordinator, 1997-2012

- Summer School Instructor for High School Introduc-
  tion to Architecture Program, 1998-2004

- Assistant Professor, 1996-2001

- Full Time Lecturer, 1995-1996

University of California at Berkeley, 1991-1995

- Project Manager for Planning, Design and Construc-
  tion, development of campus project construction

- Visiting Lecturer (part-time), Department of Architec-
  ture

Davis Brody Bond Associates, Architects, New York,
July-Dec. 1994

Hartman Cox Architects, Washington DC, 1989

Henry Richardson Associates, Architecture, Ithaca, NY,
1986-1988 (Part-time)

Cornell University School of Architecture, Art, and Plan-
ning, Director of Minority Educational Affairs, 1985-1989

American Institute of Architecture Students (AIAS) Asso-
ciation, President, Chief Executive Officer, and Publish-
er, Washington DC, 1984-1985

Garrison McNeil Architect and Planner, Manhattan, NY,
1978-1984 (Full Time Summers and Part-time School
Year)

Thomas Fowler IV, DPACSA, FAIA

Sense of Safety (SOS)
Project

I. Academic Achievements

1. Innovations in Teaching

Innovative design studios, enriched academic experiences, multi-disciplinary collaborations with other university departments, and critical links between the academy and professional practice. Examples of academic accomplishments:

**A. Community Interdisciplinary Design Studio (CIDS),
founder and director, 1997-present**
Design studios that provide opportunities for students to participate in interdisciplinary collaborations with other departments.

- Founded with a University grant ($113K) and the Ken Rodrigues Studio Sponsorship ($50K), the program interweaves scholarship with academia, professional development with research, and service at local and national levels.

- Collaborates with English, New Media Arts, Film, Liberal Arts, Computer Science, Business, Architectural / Civil / Mechanical / Electrical Engineering, Construction Management, Landscape Architecture, and City Regional Planning

.
- Establishes a foundation for digital and traditional media in the design process and builds the skills students need to succeed in the current media-driven environment. Although the program began as a place for using the latest digital tools for interdisciplinary collaborations, it has evolved to innovative community multi-disciplinary design-build collaborations using a range of advanced design and collaborative tools.

- Inspired by the program's multi-disciplinary and innovative design-build community projects with the Colleges of Liberal Arts and Engineering, the University launched its first cross-college degree program, Liberal Arts and Engineering Studies Program (LAES) in 2008.

CIDS Community Projects (Selected):

Two Towns Hallway of Light, Downtown Sacramento K Street Pedestrian Tunnel, 2015 to present
In collaboration with the LAES program and supported by a Hearst Award for Scholarship in Education, this project features the design and construction of an interactive architecture and expressive technology installation with a smart phone app-enabled augmented and virtual reality for a pedestrian passageway connecting old and new Sacramento. The existing passageway is a dark tunnel under Interstate 5, leading from downtown Sacramento into the vibrant, historic "Old Sacramento" district. With the construction of downtown Sacramento's new sports arena in 2017, the project has the potential to generate a vital economic boost to the downtown area

2 Towns - Vertical
Cross-Section

Portable Feedback
Booth, Smart Phone
App-Enabled Prototype

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Instabooth Projects, 2015-17:
- **Sense of Safety (SOS) Project, 2017**

    In a collaboration with the LAES Program and third-year design studio, students created an arc of acrylic panels that asked visitors how safe they feel at Cal Poly. Visitors left thumbprints on the panels, indicating the degree that gun violence has impacted them. The team created a friction-fit peg system that allowed assembly of the panels in as little as 15 minutes.

- **Portable Feedback Booth, 2015-16**

    A multidisciplinary collaboration with students and faculty from Queensland University of Technology in Queensland, Australia, to design and build a portable structure and interactive feedback system which is "smart phone app-enabled," that can be moved to a range of project sites during the design phase of a building project. The booth provides a way to obtain public feedback during the early stages of design. (Unbuilt)

Pneumatic Structure

HO:ME Incubator
Project Community
Center Money View and
Physical Model

HO:ME Incubator Project Site Model Bulit by
Design Studio Students

Net Zero Pedal Structure, Maker Faire Structure, Downtown San Luis Obispo, 2013
This multidisciplinary collaboration was a significant component for convincing the City of San Luis Obispo and the national Maker Faire organization to agree to support the first Mini Maker Faire for San Luis Obispo. The project included a design-built centerpiece with the concept Net Zero Pedal Structure, with all pieces of this pneumatically designed structure be given away as handbags to visiting children throughout the duration of the faire.

Pneumatic Structure for Intimate Transactions, Interactive Virtual Exhibition, Cal Poly campus, 2007
Multidisciplinary collaboration to design and construct a pneumatic structure for a visiting virtual reality gaming artist, Keith Armstrong, from Australia. The structure was designed to reflect the electronic interactivity of the game.

HO:ME (Housing Opportunities for Modular Environments) Incubator Project, San Luis Obispo, CA, 2006-2007
Featured the use of shipping containers for new low-income transitional housing, and included new office space for the Housing Authority of San Luis Obispo (HASLO), as well as a community center and permaculture community garden. Student teams worked with the industry partners to brand the project with a clear tittle, design flexible interior configurations for units, developed energy models of project and design of a community center. Students built large-scale physical models of the surrounding context to assist the industry team with the City approval process – and thanks to this work, the City Council did approve. Unbuilt due to lack of funding.

Design Studio Portable/Mobile Exhibition Panel System, Designed and Constructed 2005-2007, and used quarterly
Worked directly with independent study students to design and construct a nesting system of portable mobile panels for outdoor design studio reviews.

Portable Theater Projects:

- **Portable Lumiere Ghosting Theater Device, multiple sites, 2007.** Multidisciplinary collaboration project designed as a portable virtual reality theater that could be flat-packed and transported anywhere and constructed for establishing a virtual reality environment. (unbuilt)

- **Virtual Reality Theater, Cal Poly campus, 2004.** Multidisciplinary collaboration to design and build a temporary theater space for an interactive virtual reality movie (with head goggles) and the ability to draw in virtual space.

- **Shade Structures for Local Public Schools, 2003 & 2004.** Multiple shade structure designs for two local schools: Bishop Peak Elementary School, San Luis Obispo and Atascadero High School, Atascadero. A multi-year collaboration of architecture, architectural engineering, and landscape architecture students working with engineers, architects, and local school principals and school boards to design shade structures for outdoor lunch areas.

B. Curriculum Redevelopment

Third-Year Comprehensive Building Design Development 2012-2014, Implementation 2014 - present
As third-year coordinator, led the most significant revision of the Architecture Department's curriculum in more than 20 years, restructuring the third-year curriculum to include Comprehensive Building Design for all students. Specific curriculum improvements included:

- **Student Portfolio.** A required quarterly student portfolio (with a portfolio template design) documenting and reflecting on what was learned from building design projects, linked with practice lecture homework and activity assignments, which has allowed faculty and curriculum committee to assess student work annually.

- **Extended 20-Week Comprehensive Building Design Studio.** In 2012, piloted an extension of two design studios from 10 weeks to 20 weeks for advanced comprehensive building design testing. Adopted in 2014 by all third-year design studios.

- **Weekly Common Hour Lecture.** A lecture for faculty to share best practices for improving story-telling and graphic representation.

- **Structures in Design Studio.** Moved the teaching of advanced structural systems design for buildings into the design studio.

- **Quarterly Portfolio-Progress Reviews.** Quarterly portfolio reviews of collective progress of student work.

- **Assignment Coordination.** Coordination of lecture series homework and reading assignments to support integrated design studio and activity projects.

Blended BARCH + MSARCH (5 + 1) Degree Program Option, approved for Fall 2019
The approved proposal allows fifth-year students to get involved with advanced innovative interdisciplinary building design projects in collaboration with industry partners and real clients. By overlapping the fifth year with the first year of the graduate architecture program, students will finish their undergraduate fifth-year project and then transition into graduate research methods and collaborative multi-disciplinary approaches to design.

C. Student Self-Assessment Tools, 1997- present
Tools to assist students and keep them on track with their design projects:

- **Weekly Reflective Journals.** As part of conducting a self-paced performance in the design studio, students are required to post weekly reflective journals to their instructor.

- **44 Suggestions Feedback.** To develop a stronger framework for accepting criticism of their design work, students generate a daily question and collaged-image response to 44 suggestions (which comes from his coauthored publication w/ Haskins, "Capacity for Criticism"). The 44 suggestions allow students to understand the range of options for project feedback, which is not limited to the input an instructor provides.

Both tools provide students with self-reliance and teach them how to make project design decisions, become self-motivated, understand how to dive into a building design problem, and set the pace for others to follow.

SOM 2015 Professional Studio

2. Innovative Student Research Programs

Advanced High-Rise Building Laboratory, SOM Professional Design Studio, 2009-present
Collaborated with Skidmore Owings and Merrill (SOM) in San Francisco to create a specialized professional design studio program called the "Advanced High Rise Building Laboratory." Selected Cal Poly students obtain academic credit for design studio work and internship credit for working up 20 hours a week in the SOM office, focusing on the design of high-rise structures.

Internnect Program, 2012-present
Collaborated with a former student, Gilbert Bareng (now a principal architect of his own firm in Visalia, CA), to create a program to educate disadvantaged high school students about opportunities for the profession of architecture, called "INTERNNECT." The program brings 60 students to Cal Poly twice a year; while visiting, the students work with undergraduate third-year students on a design project.

Best of Show, 2007-present
Created the annual Best of Show event (in collaboration with the department head), of selected third-year student work to be reviewed by invited outside critics. This event has been a helpful middle point in the two-quarter design studio, allowing students to hear from invited outsiders what makes for a compelling project story and what is needed to move forward.

Analog Digital Language of Vision Workshop, 2000
A four-day workshop during the first week of instruction (working with two visiting professors) of hybrid (traditional and digital media) design analysis strategies with 65 second-through fifth-year students.

Cal Poly / University of Oregon / University of Utah Web-based Collaboration, 1999
A web-based collaboration with student teams from Cal Poly, the University of Oregon, and the University of Utah to work together via the web to collaboratively develop a series of building projects.

Explored Online Learning and Workplace Tools, 1996
Incorporated Sun Microsystem's Distributed Learning Environment into Arch 342 (Professional Practice Course) to expose students to ways of collaborating virtually. This provided the foundation for an experimental course, Architecture X467, "World Wide Web as a Design Tool," taught from 1997-1998, and the prototype for online continuing education courses.

Introduction of the Web, Into the Design Studio,1995
Dveloped an introduction to the use of the web as part of gathering criticism in design studio courses. The course explored ways the web could be used by students to obtain criticism from a range of individuals outside the University.

Capacity for Criticism, 1995
Collaborated with Tom Haskins, an architect who was a part-time puppeteer (he later became a full-time puppeteer) to create a series of scenarios on a CD-ROM to discuss different ways of accepting feedback in the creative process of design. This ultimately inspired the development of the 44 items of feedback.

## 3. Innovative New Courses

Design Collaboratory, 2008-present
Co-designed Collaboratory, an interdisciplinary, fourth-year design studio with Architecture, Architectural Engineering, and Construction Management, with Kevin Dong (ARCE), Mark Cabrinha (ARCH), and James Doerfler (ARCH). The Collaboratory model allows all disciplines to participate in the design process at all levels of design, throughout project phases. The design studio received an NCARB Prize, an Autodesk grant, and a description of the course was included in Olsen, Clare and Mac Namara, Sinead, *Collaborations in Architecture and Engineering*, Routledge, NY, 2014.

Graduate Students with Romberg Tiburon Center Client for Head House Project (Greenhouses and Classroom Building) for Ocean Research
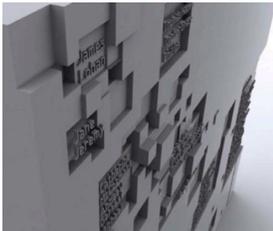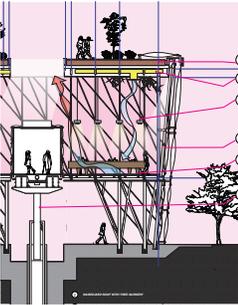

"Appreciation Wall" Project Rendering and Concrete Pour for the College of Architecture and Environmental Design's Concrete Yard
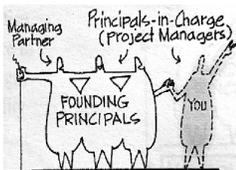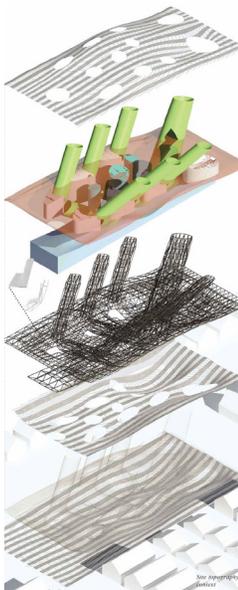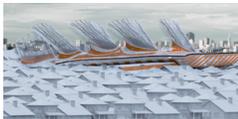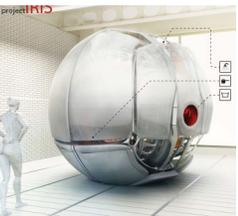

Prototype Online Continuing Education Course

The Coney Express
Team

The Coney Express,
Wall Assemby Detail

Exocarpic Interceptor

Iris

Prototype Online Continuing Education, 1997-2001
Tom collaborated with the late Jim Franklin, FAIA to create two prototype online courses for practicing architects to take continuing education courses via the web. This was an early prototype for online continuing education system and and was used by AIA National in the early stages of the developed prototype. The audience included, but was not limited to, architects in industry. Courses included Project Management and Project Fees.

4. Student Accolades (selected)

Since 2000, more than 50 of Tom's students have been recognized for innovative approaches to design in local, national, and international competitions.

Exocarpic Interceptor: Urban Farming Market Place, Hamtramck, Detriot, MI, Stephen Breaux and Culter Price, National ASC /ACSA Student Steel Design Competition, Open Category, Third Place ($750) 2018

The Coney Express: Urban Farming Market Place, Hamtramck, Detriot, MI, Zhi Mankin and Dana Cameron, National ASC /ACSA Student Steel Design Competition, Open Category, Honorable Mention 2018

The Romberg Tiburon Center, Biological Ocean Research Center, Tiburon, CA, Theatre Re Purposing Project (saved the theatre from demolition), Structural Engineering: Brandon Carson, Katie Eberle, Kevin Lee, Kristen Pang; Architecture: Melvin Fuentes, Justine Neves, Sridhevi Vaidyanathan, and History: Rebecca Willis, April-June 2017

Market Place: Market, Retail, Parking and Micro Housing Project, Sacramento, CA, Xiaoyin Xie, 2016, National ASC /ACSA Student Steel Design Competition, Open Category, Honorable Mention 2016

Market Place: Market, Retail, Parking and Micro Housing Project, Sacramento, CA, Ian Curtis and Matthew Ahearn, Sacramento, CA, Local CCC/AIA Chapter Top Honors for Third Year Comprehensive Project Award ($1,000) 2016

India Basin Market Place Project, San Francisco, CA, Flores Saul and Andrew Minnich, Third-Year Design Studio Collaboration with SOM San Francisco Office, Design Partner, Leo Chow (Architects) and Build Inc (Developer). Indentified by SOM and Build Inc to be best designed solution for the site 2015

Port of Los Angeles, Theatre Project, Ben Pennell and Trevor Larsen, with the Port of Los Angeles Planning Office, National ASC/ACSA Steel Competition First Place Award, ($2,500) 2013

Satellite Public Library, Bay View, Max Wisotsky, Nava Haghighi, Danielle Aspitz, San Francisco, CA. Three competition awards: National ASC/ACSA Steel Competition Honorable Mentions 2012

Schizophrenic Media Library Tower, Los Angeles, CA, Sarah Jester, independent study 5th year project with film documentary of design process by film student (Jackie Turlick) for senior project, 2011, 5th Year Design Award Recognition 2011

Interlocked, Sports Arena Complex, and Towers, Seattle, WA, 2010, Dong, Nevious, Shorey, Tomitch. Interdisciplinary 4th year architecture and architectural engineering building design studio. Project featured in "Cal Poly Architecture and Architectural Engineering Studio: A Collaboratory," by Olsen, Clare and Mac Namara, Sinead, *Collaborations in Architecture and Engineering*, Routledge, NY, 2014
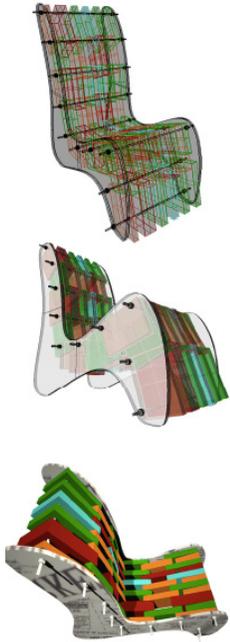
Bookish Exhibitions: Four Recycled Book Furniture Pieces
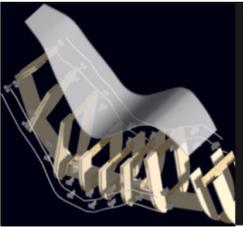
Boat Lounge Chair Digital Rendering

2018 Field Trip to Detriot, MI for Third Year Design Students w/ a stop at Motown Museum

IRIS (Micro Housing Unit), Cody Williams, Independent Study 4th-Year Design Studio, 2009:
- Special Mention, D3 Housing Tomorrow International Architectural Design Competition: Deployable Pod Category, 2010
- Featured in the UDESIGN international trans-disciplinary design, D3 Exhibition in Monterrey, Mexico, March 2010
- Published in Tuvie, Design of the Future online publication, 2010
- Honorable Mention, ACSA/AISC Student Steel Design Competition, Open Category, 2010.

Frequency In-Flux (Seismology Tower), Rachel Glabe-Taylor, independent study 5th year project, San Francisco, CA, Honorable Mention, ACSA/AISC Steel Design Student Competition, 2008-2009

5. Student Exhibtions (Selected):

The following are examples of student exhibitions created under Tom's faculty advisement, often in collaboration with a number of other disciplines.

Bookish Exhibitions: Four Recycled Book Furniture Pieces, Ali Burquist. A student created furniture made of books that the University library was recycling. "Book Chair" was archived by the library for the permanent collection, 2009

ReKinetic Skins Exhibitions: Four Rekinetic Installations: skINHALE; We've Lost our Marbles!; The Light Modulator; Swarm; Wind Wall," multiple students. These three interactive exhibitions were researched and constructed to provide K-12 kids with an opportunity to learn from these interactions, 2010

6. Student Committees (Selected)

PhD Graduate Committee Member
- Ethny A. Stewart, PhD, "The Disciplinary Practices and Processes of Critique in a Third-Year Architecture Design Studio (Thomas Fowler's Design Studio)," University of California Santa Barbara, CA, a dissertation submitted in partial satisfaction of the requirements for the degree Doctor of Philosophy in Education, 2017

Fifth Year (Independent Thesis Projects), Committee Chair:
- Sarah Jester, "Media Library Tower," BArch, 2010
- Rachel Glabe, "Seismology Center," BArch 2009
- Darric McCormick, "Immersive Visualization Center," BArch 2001
- John Moyer, "A Water School," BArch 2001
- Scott Neville, "A Digital Library," BArch, 1999
- Ben Korman, "Outpost On Mars," Use of virtual reality in the process of design, BArch, 1998

Graduate Architecture Program (Master in Science in Architecture), Committees: Chair
- Heather Anderson, "Amphibious Architecture: Living with a Rising Bay," Chair, MSARCH 2014

Member
- James R. Franklin, FAIA, "Transformative Project Practices for Architects," MSARCH 1999
- Barry Williams, AIA "Property Development as an Investment in the Community," MSARCH 2002

7. Service

Students transporting physical model for RTC Project to "Best of Show" Review

A. University Committees (Selected)

College of Engineering Dean's Search Committee, 2017-2018

Cal Poly Quantitative Reasoning Task Force, California State University Academic Senate, 2015-2017

College of Architecture and Environmental Design Dean's Search Committee, 2011-2012

B. Department Service (Selected)

NAAB accreditation team visit preparation. Assistance with accreditation reports and University internal review requirements, 2017, 2011, 2004

Chair, Architecture Department Curriculum Committee. Faculty approved to streamline the first-year design sequence and established a fourth-year portfolio requirement, 2007-2008 & 2000 - 2002

Chair, Architecture Department NAAB Committee. Wrote the Architecture Program Review, the program's Internal Review report, and prepared the Team Room and Department Exhibition of Faculty/Student work, 2003-2005

Third Year Architectural Design Curriculum Committee Representative, 1997- 2012

Third Year Coordinator. Started Best of Show winter final reviews for third year students in 2007, where outside reviewers are invited to discuss and critique student projects, 1995-2013

Architecture Computer Curriculum Instructional Area Committee, 1995-present

Association of Collegiate Schools of Architecture Councilor, 1997-1999

Summer workshops for high school students on use of web applications, 1997-2003

Faculty advisor to student organizations:
- Tau Sigma Delta (TSD), Beta-Beta Chapter (reactivated chapter after two decades of inactivity), 2013-present
- African-American Environmental Design Student Association, 1997-2001
- Scarab (architecture student organization), 1995-2001
- AIAS, 1997-1998

Culter Price carrying his Structural Skeleton Model from the Exocarpic Interceptor: Urban Farming Market Place Team

II. Leadership

National Architectural Accreditation Board (NAAB)

Completed 33 NAAB visits since 1985, including a number of international reviews. Aassisted the Cal Poly Architecture Department with preparation for re-accreditation visits, including annual accreditation reports and University internal review requirements, including report writing and team room design/ collection/organization in 2004, 2011, and 2017.

NAAB Volunteer Positions:
• Chair, Evolving Conditions and Student Performance Criteria Task Group
• Secretary of the Board, Member of Executive Committee, 2007-2008
• ACSA Nominated Member, 2006-2009

1. NAAB Service

Chair, NAAB Conditions Renovation Task Force, 2004-2006, in preparation for the NAAB Architecture Review Conference in 2007-2009. Chaired a task force composed of representatives from all collateral organizations (AIA, ACSA, AIAS and NCARB) to obtain input on Student Performance Criteria and accreditation Conditions.

Chair, Cal Poly's Architecture Department NAAB Visitation Team Committee, 2001-2017. Wrote the Architecture Program Review reports, the program's internal review reports, designed and built team room working with students over a two-year period for the Department's initial exhibition of faculty/student work for 2004 and 2011 visits. For the 2017 visit, Focused on demonstrating the impacts of the third-year curriculum revisions on improving comprehensive building design. The team room was used by NAAB as an example of exemplary design for a small space for many years.

2. External Program Reviewed Visits

NAAB Review Team Chair
• Kuwait University, International Substantial Equivalency Visit, 2016
• Yildiz Technical University, Istanbul, Turkey, International Substantial Equivalency Visit, 2015
• Temple University, Philadelphia, PA, 2014
• Bowling Green University, OH Candidacy Visit, 2013
• Marywood University, Scranton, PA, 2012
• Arab Academy for Science Technology and Maritime Transport, College of Engineering and Technology, Department of Architectural Engineering & Environmental Design, Alexandria Egypt, Candidacy Equivalency Visit, 2010
• Florida International University, Focus Evaluation Visit, 2008
• Cooper Union, New York, Focus Evaluation Visit, 2007
• Art Institute, Chicago, Candidacy Visit, 2007
• Penn State University, PA, 2005
• Syracuse University, NY, 2004
• University of Colorado, CO, 2003
• Washington State University, WA, 2002
• University of Detroit, Mercy, MI, 2002

Other Reviews
• University of Dammam, Saudi Arabia, hired as consultant with the Dean CAED Cal Poly to evaluate the curriculum and recommend changes, 2015
• Cal Poly Art & Design Department, National Association of Schools of Art and Design (NASAD), 2010 & 2006

Kuwait University, Kuwait City, Kuwait, International Substantial Equivalency Visitatuon Team, 2016

Yildiz Technical University, Istanbul, Turkey, International Substantial Equivalency Visitation Team w/ Student Leaders, 2015

NAAB Review Team Member:
- Georgia Institute of Technology, Atlanta, Georgia, 2018
- Catholic University, Washington, DC, 2015
- University of Pennsylvania, 2013
- City College of New York, 2011
- Texas A&M, (Focus Evaluation Visit) 2010
- Prairie View A&M, Houston, TX, (Focus Evaluation Visit) 2010
- University of Memphis, (Candidacy Visit) 2009
- Washington University, St Louis, 2006
- University of New Mexico, 2000
- Howard University, Washington, DC, 1998
- Washington State University, Pullman, WA, 1997
- Tuskegee Institute, Tuskegee, AL, 1989
- Howard University, Washington, DC, 1988
- Drexel University, Philadelphia, PA, 1987
- New Jersey Institute of Technology, 1987
- Florida A&M University, 1985

3. Other Professional Leadership Service

Tau Sigma Delta National Honor Society, Grand Chapter, Board of Directors
- Past President, 2017-2019
- President, 2015-2017

Association of Collegiate Schools of Architecture (ACSA)
- Board of Directors, Secretary, 2004-2006
- Chair, Conditions and Procedures Task Force, 2004-2006
- Co-Chair (w/ Steve Schreiber) NAAB Conditions and Procedures Task Force, 2004
- Faculty Advisor to AIAS National Board of Directors, 2002-2004

Distinguished Professors of the ACSA (DPACSA)
- Past Chancellor, 2015-2016
- Chancellor, 2014-2015
- Secretary, 2013-2014
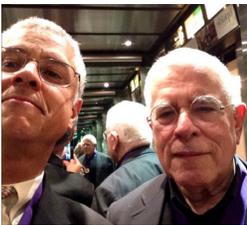
Interviewed Topaz-Medallion Honoree Peter Eisenman, as DPACSA Chancellor

III. Honors and Awards

1. Teaching Awards

Cal Poly Distinguished Teaching Award (one of three faculty selected), $2,000. Nominated by students and selected by a multi-disciplinary University faculty group, 2018

Honorary Member, Tau Sigma Delta Honor Society, 2015

DesignIntelligence, 25 Most Admired Educators, 2012

ACSA Distinguished Professor Recognition, (one of four selected nationally), 2010

NCARB Prize for "Design Collaboratory," co-taught with Professors Mark Cabrinha, Kevin Dong, James Doerfler (one of six national awardees for innovative courses), $5,000, 2010

Cal Poly President's Serving Learning Faculty Award (w/ Professor David Gillette, Co-Collaborator), for demonstrating an innovative approach to engaging the community through curriculum related service, while simultaneously meeting a community need for the design + build work with the local Housing Authority, 2019

ACSA Creative Achievement Award, (one of two selected nationally), for establishing the Community Interdisciplinary Design Studio (CIDS), 2009

AIA Education Honor Award for the Integrated Project Studio (IPG), taught in collaboration with Barry Williams, AIA (one of five selected nationally), "To discover and recognize the achievement of individuals who serve the profession as outstanding teachers, the awards celebrate excellence in architecture education as demonstrated in classroom, studio, and/or community," or in courses offered in various educational settings, 2009

Paul and Verla Neel Professional Development Fund Awards, $600, 2009 & 2003

AIA Education Honor Award for the Community Interdisciplinary Design Studio (CIDS), (one of six selected nationally), 2008

Wesley Ward Teaching Award, College of Architecture and Environmental Design Foundation, $1,000 provided for classroom use, 2007

Faculty Teaching Award, Department of Architecture, Cal Poly, 2005

Cass Gilbert Visiting Professor, Architecture Department University of Minnesota, 2003

Alumni of the Year for national AIAS, presented at AIA National Convention, San Francisco, CA, 1998

IBM's Annual Report, represented the California State University System (23 Campuses), in recognition of effective, innovative methods for integrating computer technology into the classroom, 1997
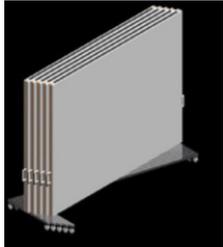
Honorary Member of the Golden Key National Honor Society, 1997

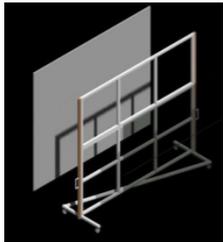Young Faculty Teaching Award, ACSA and the AIAS, 1997

Setting up for an Outdoor Review

Isometric of Mobile Panels

Exoloded Isometric of Mobile Panels

Working with students to Fabricate Mobil Panels

2. Other Recognition

Cal Poly Magazine, "The Jubilee Year, Cal Poly Architecture Celebrates its 50th Anniversary with a No. 1 Ranking," by Larry Pena, Photography by Jean Paul Molyneux and Brittany App, page 12, Third-Year Design Studio featured in this issue, 2016

Face of AIA, Volume 15, The News of the America's Community of Architects, April 25, 2008, by Heather Livingston, Contributing Editor. Selected by the national AIA to be interviewed regarding my teaching accomplishments, 2008

Featured in *Progressive Architecture's* "Young Architect" edition, 1994*.*

3. Local News Coverage Of Student Awardees/Exhibitions

"Don't judge a couch by its cover," *Mustang Daily,* Cal Poly, November 8, 2011

"Architecture student wins national design competition," *Mustang Daily*, Cal Poly, May 10, 2010,

"Students create fully functional art in Kennedy Library," *Mustang Daily*, Cal Poly, April 25, 2010

"Architecture student receives national attention," *Mustang Daily,* Cal Poly, January 13, 2010

"Professor awarded for integrative design studio," *Mustang Daily*, Cal Poly, January 25, 2010

"ReKinetics Exhibition," *Mustang Daily*, Cal Poly, Spring 2010

"Slightly Bookish Exhibition," *Mustang Daily*, Cal Poly, Spring 2009

IV. Publications

1. Research Projects

Design Projects Proposals for California State University San Francisco Satellite Biological Ocean Research Center, Tiburon, CA, 2016-present. This former military depot site played a significant role during WW II. The site was purchased for $1 by San Francisco State University in 1958 for use as a satellite research campus but is now in disrepair. Cal Poly's graduate interdisciplinary building design studio was selected to assist in developing a series design-build proposals. Publisher AeD Press / Architecture Department, Cal Poly SLO:

- **Tiburon Design Collaboratory (Renovation of Laboratory and Classroom Building),** Fowler, T., Dong K. editors, January-March 2018

- **Tiburon Design Collaboratory (Repurposing Former Military Depot Theatre),** Fowler, T., Dong K. editors, April-June 2017

- **Tiburon Design Collaboratory (Repurposing Steel Water Tank),** Fowler, T., Dong K. editors, April-June 2017

- **Tiburon Design Collaboratory (Head House Design and Classroom Building),** Fowler, T., Dong K. editors, 2014-2015

Tanzania, Africa Polytechnic College Design (+ Build), 2014-present.
Co-leading the development of a master plan and schematic building design for this off-the-grid project that must rely mainly on design strategies that use passive ventilation, natural daylighting, rainwater collection, and solar electric systems. Co-faculty collaborator with architectural engineering colleague Kevin Dong, along with a diverse group of undergraduate and graduate students from architecture, architectural engineering, mechanical engineering, electrical engineering, city regional planning, landscape architecture and construction management. The project team is working directly with industry partners and the client in developing the documentation for constructing the prototypical classroom and dormitory buildings for the Polytechnic College ampus in Same, Tanzania.

- *Same Polytechnic College (Masterplan update and Administrative Building Design)*, Fowler, T., Dong K. editors, April-June 2018

- *Tanzania Design Collaboratory (Classroom and Dormitory Building Designs)*, Fowler, T., Dong K. editors, Fall 2017

- *Tanzania Design Collaboratory (Campus Design)*, Fowler, T., Dong K. editors, 2014-2015

2. Third, Fourth, and Fifth Year Teaching

Design Collaboratory, Thomas Fowler, editor, AeD Press 2011, Architecture Department, College of Architecture and Environmental Design, California Polytechnic State University, San Luis Obispo, 2010-2011

Design Collaboratory, Thomas Fowler, editor, AeD Press 2010, Architecture Department, College of Architecture and Environmental Design, California Polytechnic State University, San Luis Obispo, 2007-2010
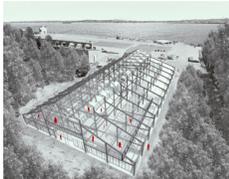
Fowler Studio, Selected Student Design Studio Work, Thomas Fowler editor, AeD Press, Architecture Department, College of Architecture and Environmental Design, California Polytechnic State University, San Luis Obispo, 2008-2010
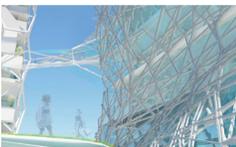
Octagon Barn Paper Engineering Project, The Land Conservancy of San Luis Obispo, CA County, Thomas Fowler, 2012, AeD Press, Architecture Department, College of Architecture and Environmental Design, California Polytechnic State University, San Luis Obispo, 2011

Community Interdisciplinary Design Studio (CIDS) Summary of Work (Brochure), Thomas Fowler, AeD Press, Architecture Department, College of Architecture and Environmental Design, California Polytechnic State University, San Luis Obispo, 2012

3. Book Essays

Fowler, Thomas, "A Teacher's View," Lee Waldrep, editor, *Becoming an Architect,* Wiley 2006, 3rd Edition, 2014

Fowler, Thomas with Cabrinha, Mark; Dong, Kevin; Doefler, James; and Fowler, Thomas, "Cal Poly Architecture and Architectural Engineering Studio: A Collaboratory," by Olsen, Clare and Mac Namara, Sinead, *Collaborations in Architecture and Engineering*, Routledge, NY, 2014

Postscript Essay for PhD Thesis [A PhD Study Thomas Fowler's design studio pedagogy] Fowler, Thomas, "Postscript" (p 246), Ethny A. Stewart, PhD, The Disciplinary Practices and Processes of Critique in a Third-Year Architecture Design Studio, University of California, Santa Barbara, CA, 2016

4. Articles (Selected)

"ReKinetic Skins," *FormZ Auto-des-sys, Inc.*, Annual Publication, 2009

"Journals of a Digital Design Studio," co-authored with third-year student Sara Jester, *FormZ Auto-des-sys, Inc.*, Annual Publication, 2008

"Light Motion Machines," *FormZ Auto-des-sys, Inc.,* Annual Publication, 2007

"Intimate Production of Space," *FormZ Auto-des-sys, Inc.,* Annual Publication, 2007

"Intimate Production of Space," *Architecture+Design+Discourse,* California Polytechnic State University, San Luis Obispo, Architecture Department, 2008

"The Tectonics of Motion Light and Space," *FormZ Auto-des-sys, Inc.,* Annual Publication, 2006

"Exploring the Constructability of 'Imagined' Realities,' " *FormZ Auto-des-sys, Inc.,* Annual Publication, 2005

"Teaching Today," Introductory Essay for *ArchVoices* Issue on Education, September 13, 2003
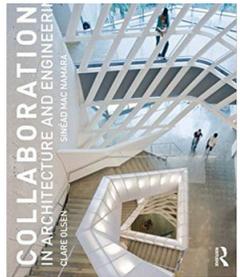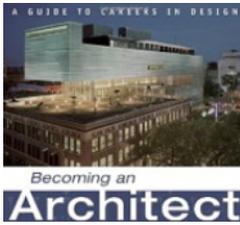
Sarah Jester's Immersive View of Thesis Project Towers and with her for project review

V. Presentations, Juries and Reviews

1. Invited Presentations

"Design Collaboratory," Guest Lecture, Prairie View A&M, Houston, TX, 2016

"INTERNNECT: An innovative Work-Based Learning Model," Presenter, National Academy Foundation's NAFNEXT, Anaheim, CA, with Gilbert Bareng, Kerry Hydash, Lesley Taylor, and Joy Soares, 2015

"Teaching Teachers to Teach," Guest Lecture, College of Architecture and Environmental Design Visual Collective, Center for Teaching and Learning, 2013

"Collaborative Integrative-Interdisciplinary Digital-Design Studio (CIDS) and Overview of the College of Architecture and Environmental Design," Presenter, University Parents Council, 2008

Faculty Commencement Speaker, College of Architecture and Environmental Design and College of Liberal Arts Graduation Ceremony, 2007

"Establishing a Physical-Digital Media Framework Using Bauhaus Principles For Integrating Building Technology into Studio Design Projects," Guest Lecture, Graduate School of Architecture and Urban Design, Chaoyang University of Technology, Taiwan, 2003

"Digital Media in Architecture," Session Co-Chair, Association of Collegiate Schools of Architecture (ACSA) Annual Meeting, Louisville, Kentucky, 2003

"Successful Uses of Online Technology in the Classroom," Public Broadcasting Systems (PBS) and Florida Community College, Jacksonville, Florida, 2002

"Analog Digital Language of Vision" Panelist with Julio Bermudez, Univ. of Utah, and Bennett Neiman, Univ. of Colorado/Denver, University of Utah, Salt Lake City, October 2001

InterSymp International Conference on Systems Research, Informatics and Cybernetics, Presenter, 1998 -2001, Baden-Baden, Germany, and sponsored a symposium on Using the Web as a teaching tool in the design studio, 1999-2001

"Immersive Visualization Interdisciplinary Collaboration," Invited Presenter, by Cal Poly President to President's Cabinet Fundraising Committee, 2000

"Diagramming (analog <-> digital) as Design Thinking Frameworks(s)," Guest Lecture, Hearst Memorial Lecture Series, Enchantment of Drawing (Representation) Seminar, Cal Poly, San Luis Obispo, CA, 2000

"Immersive Visualization Interdisciplinary Project," Presenter, College of Architecture Dean's Brown Bag Session, Cal Poly State University, 2000

"A Teaching Model for Design, the Architecture Design Studio," Presenter, College of Engineering Faculty and Administration, Cal Poly State University, SLO, CA, 1999

"World Wide Web as Design and Collaboration Tools for 21st Century Practice," Presenter, AIA Convention, San Francisco, CA, 1998

"Internet, Intranet, Extranet: New Methods For Collaborating On The Web," Presenter, AIA Convention, San Francisco, CA, 1998

"Collaborations in Higher Education," Panelist, Chicago Cultural Center, with Andrea Polli, Robert Morris College, and Mary Murphy, Renselear Polytechnic Institute, SIGGRAPH 1998 International Conference on Computer Graphics and Interactive Techniques, Orlando, Florida, 1998

"Virtual Worlds," Presenter, AIA Convention, New Orleans, LA, 1997

A Field Trip Visit on 3/26/14 with Memorial Haikus and Collages to Celebrate The Folk Art Museum (2001-2014),Tsien Williams NYC

Students with local craftsman, that assisted with Weather Station Building, Tanzania, Africa, Summer 2018

Students placing handprints into finshed concrete pour for slab, for Weather Station Building, Tanzania, Africa, Summer 2018

Student Fabricating Shutters and Door out of Formwork for Weather Station Building, Tanzania, Africa, Summer 2018

"Using the Web in the Classroom," Presenter, Interactive Learning Institute Workshop, Cal Poly State University, 1997

Cal Poly President's Cabinet Committee, "Use of Technology in the Classroom," Presenter, 1996

"Using the Web in Architectural Education," Presenter, AIA Diversity Conference, "Crossing Lines: Designing Solutions," Boston, MA, 1996

"Design Web Chats - Creating a Virtual Design Community," Presenter, Institute for Academic Technology / University of North Carolina Chapel Hill, 1996

"Web Use in the Classroom" presentation to faculty in the Architecture Department, 1996

"Text as a Site for Cultural Discourse," Collaborative Charrette with Design Studio and Visiting Fellows from Florida A&M University (Carminia Sanchez and LaVern Wells Bowie) 1995

2. Conference Paper Presentations

"Advanced Structural Integration Collaboratory Model for Architecture Students," Fowler, Thomas w/ Rihal, Satwant, and "Partnering without Boundaries: Integrating Structures, Architecture, Practice, and Education." International Conference on Structures and Architecture, Lisbon Portugal, to be presented July 24-26, 2019

"Partnering without Boundaries: Integrating Structures, Architecture, Practice, and Education," Fowler, Thomas w/ Dong, Kevin, International Conference on Structures and Architecture, Lisbon Portugal, to be presented July 24-26, 2019

"Renewing Liminal Space: 2Towns and the Troubling Tales of an Urban Tunnel," Fowler, Thomas, w/ Gillette, David and Haungs, Michael, Union College Symposium - Eleventh Annual Symposium Engineering & Liberal Education, Union College, Schenectady, New York, June 1 -2, 2018

"The Discursive Construction of Learning Opportunities: Developing An Interdisciplinary/Inter-Professional Ethnographic Research Agenda," Fowler, Thomas with Stewart, Ethny, American Educational Research Association (AERA), San Antonio, TX, April 27-May 1, 2017

"Crossing Boundaries: Blurring the Lines Between Engineers and Architects," Fowler, Thomas with Dong, Kevin; International Conference on Structures and Architecture (ICSA), Guimarães, Portugal, July 27-29, 2016

"The Interdisciplinary Design Studio: Identifying Collaboration," Fowler, Thomas with Dong, Kevin, and Doefler, James. International Conference on Structures and Architecture (ICSA), Guimarães, Portugal, July 2013

"On Improvisation, Making, and Thinking" with Julio Bermudez, University of Utah; Bennett Neiman, Texas Tech University; ACSA South West Regional Conference Proceedings, October 2005
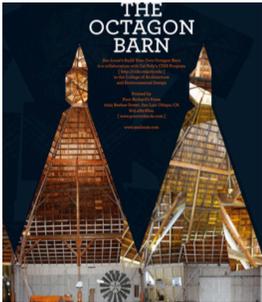
"Tacit and Deliberate Systems: A Seven Component Analog and Digital Framework for Informing the Design Studio Process," ACSA West Conference, San Luis Obispo, CA, 2002

"Physical and Digital Media Strategies, For Exploring 'Imagined' Realities of Space, Skin and Light," with Brook Muller, Association for Computers Aided Design in Architecture (ACADIA) Conference, Pomona CA, 2002, and Sigradi Conference: 6th Iberoamerican Congress of Digital Graphics, Caracas, Venezuela, 2002

"Immersive Education - A New Technique for Collaborative Learning," with Lew Hitchner and Erika Rogers, Cal Poly Computer Science Department, American Society of Engineering Educators – Pacific South West (ASEE-PSW) Conference, Tucson, Arizona, April 2000

Havng Fun w/ Local
Tanzanian School
Children

"Traces of a Hidden Culture: Memorializing an African-American Farming Community,"
ACSA Annual Conference, Minneapolis, MN, March 1999

"Immersive Education - A New Technique for Collaborative Learning," with Lew Hitchner
and Erika Rogers, Cal Poly Computer Science Department, ASEE-PSW Conference,
Tucson, Arizona, April 2000

"Traces of a Hidden Culture: Memorializing an African-American Farming Community,"
ACSA Annual Conference, Minneapolis, MN, March, 1999

"Traces of a Hidden Culture: Memorializing an African-American Farming Community,"
Western Regional ACSA Conference, "Towards a Critical Pedagogy," University of Cali-
fornia, Berkeley, CA, October 16-18, 1998

"Creative Expression on the Web: An On-line Project Management Course for Architects,"
InterSymp-98 10th International Conference On Systems Research, Informatics and
Cybernetics, Baden-Baden, Germany, August 17-21, 1998

"The World Wide Web as New Models of Mind and Medium for Capturing The Design
Process for Learning and Teaching," InterSymp '97, International Conference on Systems
Research, Informatics and Cybernetics, Focus Symposium: Advances in Collaborative
Design And Decision-Support Systems, Baden-Baden, Germany, August 19, 1997

3. Guest Lectures/ Workshops (Selected)

"NAAB Team Chair Training," Presenter, Salt Lake City, UT, 2006

"NAAB Team Chair Training," Presenter, Chicago, IL, 2005

"Studio Culture Summit," Panelist/Presenter, University of Minnesota, 2005

"Studio Culture," Panelist, AIAS Forum, Chicago, IL, 2004

"Education Group" Focus Group Participant, American Institute of Steel Construction,
Chicago, IL, 2004

Fundraiser with Photo
Collaged Paper
Engineering Project.
With Student Sarah
Jester and CEO of
Land Conservatory
San Luis Obispo, CA
County

4. Juries (Selected)

University of Nevada at Las Vegas, Final Reviews, May 2018

Santa Barbara AIA Design Awards, with John Burgee (Johnson Burgee Architects), and
Marlon Blackwell (Marlon Blackwell Architects), November 2017

Harvard University Graduate School of Design, Final Reviews for Comprehensive Build-
ing Design Studios and Basic Design, 2016

National Steel Competition Design Jury Member and Invited to write the compeition pro-
gram brief for Border Crossings, American Institute of Steel Construction (AISC), Chica-
go. 2013

5. Paper + Book Manuscript Referee (Selected)

The Plan Magazine, February 2018

International Experts for Research Enrichment and Knowledge Exchange reviewer, 2015

Journal of Architecture Education (JAE), 2013

Collaborating Students

SB AIA 2017 Jury
Awards Presentaiton
w/ John Burgee, FAIA
(From Phillip Johnson
John Burgee Archi-
tects, New York)

Studio Design (Blind Review), Pearson Education
Chapter 2 (The Design Process) and Chapter 7 (Introduction to Freehand Drawing), 2011

Architectural Drawing: A Visual Compendium of Types and Methods, By Rendow Yee,
Wiley Review for New Edition, 2010

Association for Computers Aided Design In Architecture (ACADIA) Annual Meeting Paper
Submissions, 2006-2010

The Arab Society for Computer Aided Architectural Design (ASCAAD), 2006-2008

ACADIA Annual Conference, and Selected Moderator for "Computer Media RePresenta-
tions" session, 1999

ACADIA Annual Conferences '99 & '00, '03 and Selected Moderator for "Computer Media
RePresentations" session, 1999

Association of Collegiate Schools of Architecture (ACSA) Annual Meeting Paper Submis-
sions, Digital Media, and Interdisciplinary Collaborations 1997, 1999, 2007, 2011, 2013

VI. Grants + External Funding

Received 20 grants in support of multi-disciplinary work with students, industry partners, and clients:

New York City Field
Trip 2014

1. Liberal Arts and Engineering Studies Program (LAES) Grants

"2 Towns Project," College of Architecture and Engineering Design Hearst Educational Grant, with David Gillette, (LAES), $30,000, Sacramento, CA, design proposal in collaboration with Sacramento's Downtown Historic Society and LAES, 2017-2018

"Sense of Safety (SOS)" and "The InstaBooth Project," LAES Department Grant, with David Gillette, (LAES), $5,000, Design + Build portable prototypical structures. Both projects in collaboration with Queensland University of Technology's Urban Informatics and Interactive Visual Design divisions in Brisbane, Australia, and LAES, 2015 & 2016

"Net Zero Pedal Structure," LAES Department Grant, first annual Mini-Maker Faire (Design + Build center piece structure for faire), with David Gillette, (LAES), $2,000, Downtown San Luis Obispo, CA, in collaboration with San Luis Obispo Museum, 2014

"Pneumatic Structure for Intimate Transactions Project" LAES Department and CIDS Grants, pneumatic structure designed and constructed (cost of building materials, equipment rental and shipping cost for the interactive technology system) for University Open House event, $20,000. Interdisciplinary collaboration with more than 100 students and five faculty from five different departments: Architecture, English, New Media Arts, Computer Science, LAES, College of Liberal Arts, and Community Interdisciplinary Design Studio, 2009

"Lumeire Ghosting Device," Cal Poly State University Internet II Grant, with David Gillette, (LAES), $30,000, for the schematic design, construction documents, and full-sized construction of a rear-projection modular and portable virtual reality theatre, 2005 to present.

Chicago, IL Field Trip
(@ IIT) 2015

2. Community Interdisciplinary Design Studio (CIDS) Grants

Kenneth Rodrigues Interdisciplinary Design Studio Grant, funded by Kenneth Rodrigues and Partners, Inc., $50,000 ($10,000 a year x five years), first and only architecture design studio sponsored project for the Architecture Department. The funds supported student classroom activities, field trips, and material supplies for projects, 2008-2013

Department of Architecture Archive Room (NAAB Team Room) for Student and Faculty Work, funded by Architecture Department student-based fees, $10,000. Funding to hire two students to design and purchase the materials to construct archive room, 2009

Shade Structure for Atascadero High School, Atascadero High School Facilities Department, Interdisciplinary Project with independent study students mentored by faculty advisors from Architecture, Architectural Engineering and Construction Management working with students from Architecture, Architectural Engineering, Construction Management, and Landscape Architecture Departments. Shade structure designed, but not constructed. Inkind donation of faculty/industry experrtise to student team, 2007-2008

Design Studio Workstation Prototype for the Architecture Department, funded by Architecture Department student-based fees, $50,000. Research and purchased workstations for prototyping the optimum workstation configurations for application to the remaining 33 design studios in the department, 2008

1997 IBM's Annual Report, Represented the California State University System (23 campuses), Selected in Recognition of Effective, Innovative Methods for Integrating Computer Technology into the Design Studio Building Process.

Final Student Project Review with Reflections On Building Design Process

Fall 2000 with Third Year Design Students in Preparation for Campus Collection Process for Time Capsule Project in Celebration of the University's Centennial Birthday. This Photograph and a Summary of Teaching Strategies the Focus of an April 2008 Online Face of the AIA Article.

"Full-Size Cladding System Mockup" System, College of Architecture Innovation In Teaching Funds, $5,000, interdisciplinary collaboration between Construction Management (with Bill Epstein and Paul Weber) and architecture students and faculty, installation of cladding system in the stair court of Building 5, 2003-2004

"Modular Display Units," Architecture Department student-based fees, $13,100, design and construction of student work storage display system for Department's archive room, 2003-2004

"Immersive Collaboratory," Cal Poly Plan Funds, $4,100, design of a voice-activated immersive interface for disabled architecture students, interdisciplinary collaborative project with Computer Science and Architecture Departments, 2000

"Fakespace ImmersaDesk," Pac Bell Foundation, $50,000, immersive visualization computer equipment for the interdisciplinary collaborative project between Computer Science and Architecture Departments, 2002

"Immersive Collaboratory," Cal Poly Plan Grant, $113,000, visualization computer equipment which launched the founding of the Community Interdisciplinary Design Studio (CIDS, 2000-present), 2000

"Design Web Chats," Cal Poly Foundation Interactive Learning Group, $2,500, to establish website for the online criticism of architecture student work, 1995

"Integrating the Fundaments of Analog and Digital Graphic Communication into the Design Studio," CAED Innovations in Teaching Fund, $20,000, Experimenting with the early use of laptops in the studio to develop best practices of integrating digital and analog design strategies in the studio, 2000 and 2002

3. Structural Engineering and Industry Consultant Grants

Autodesk Collaboration for Revit: BIM 360 Grant, est. $10,000 annually. Provides collaborative cloud access for students working with Revit. The BIM 360 platform is being used to support a range of community design projects, e.g., the Tanzania Polytechnic College Design-Build Project, and other community design projects and provides collaborative tools for improving the workflow between students, industry, and client, 2017-2022

Autodesk Award for Design Collaboratory, $10,000, 2009-2010

"Design-Build Weather Station for Same, Tanzania, Africa," with Kevin Dong, $10,000, Harold Hay Environmental Research and Education Grant, 2018-2019

Tanzania University and Housing Project, with Kevin Dong, The ARUP Cause (David Lambert) and The Mbesese Initiative (Client), a collaborative design + build university and housing project, Tanzania, Africa, In-kind industry/faculty expertise, estimated at thousands of dollars annually, 2012-present.

Design Collaboratory in Grasshopper: Parametrically Modeling a New University for Tanzania, Africa, with Kevin Dong, $10,000, ZGF Building Performance Evaluation Studies Fund. The parametric models provide the opportunity to assemble the years of design work and data collected into 3D digital models that will allow a team of students, faculty, and industry experts to explore in real-time the range of options for building this campus design, 2016-2017

ACSA/AISC Steel Competition, with Kevin Dong, Instructionally Related Activities (IRA) Annual Fund, Collaborative Design Studio, $4,100 annually. Provides support for students to collaborate in interdisciplinary teams of architecture and architectural engineering students to develop an integrated design proposal for an annual design competition, 2014-present
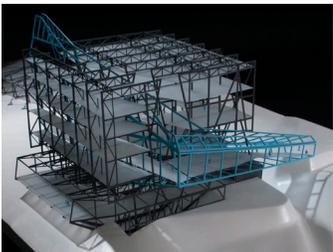
1. Community Interdisciplinary Design Studio (CIDS)

2. SOM Advanced High-Rise Professional Design Studio
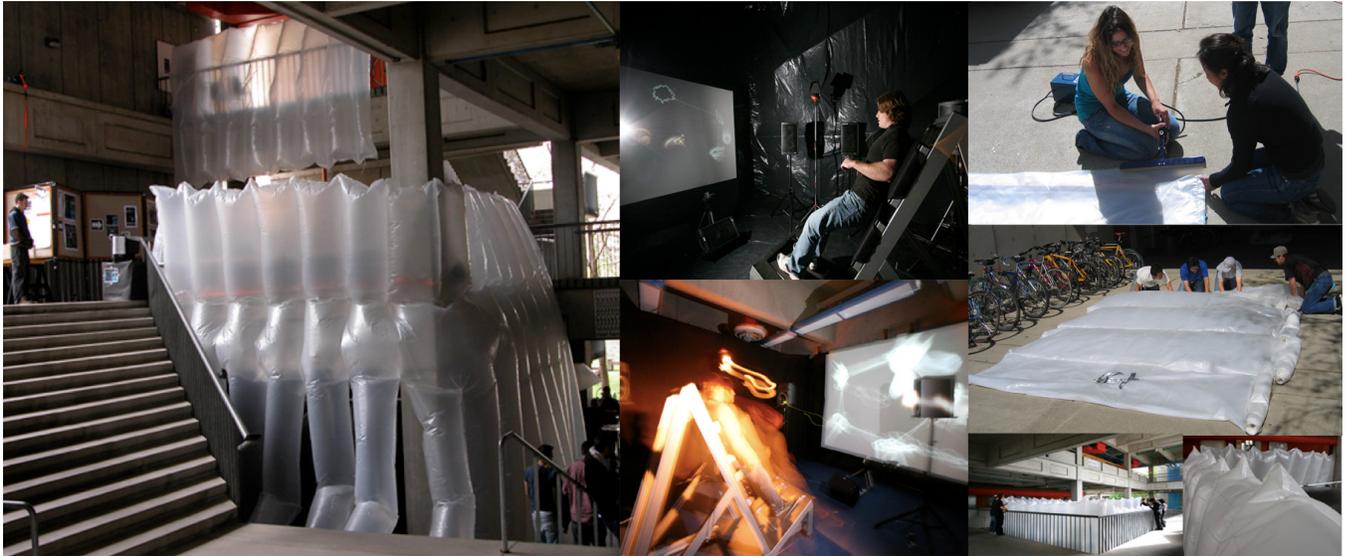

3. Tanzania Project

4. Award-Winning Student Designs

5. Internnect Program

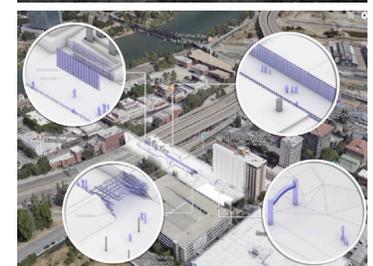# 1. Community Interdisciplinary Design Studio (CIDS)

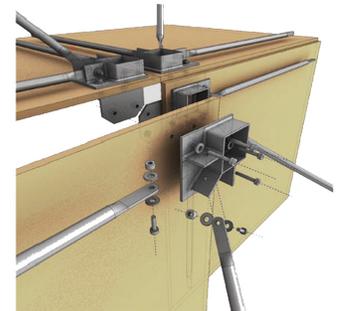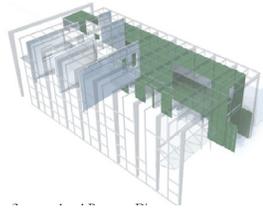[Built] "Pneumatic Structure" for Intimate Transactions" Interactive Virtual Exhibition, Cal Poly Campus

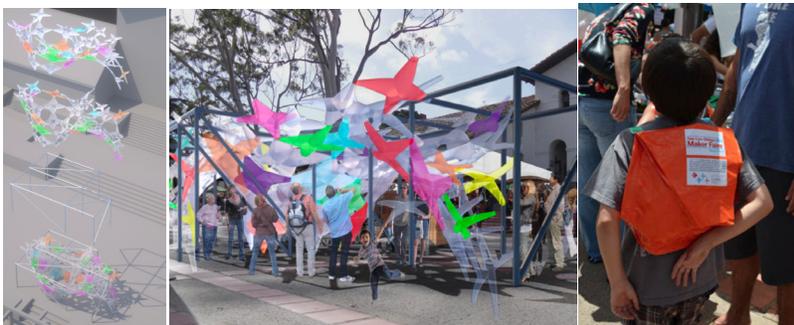**Community Design Projects**

Existing Passage Way

PAST — CHANNEL — FUTURE

[In Progress] 2 Towns Project, Sacramento, CA

NEIGHBORS COMMUNITY GATHERING TOGETHER PLAY LIVE SHARE MINGLE EAT SHARE GIVE NECESSITIES SUSTAINABLE MAINTENANCE
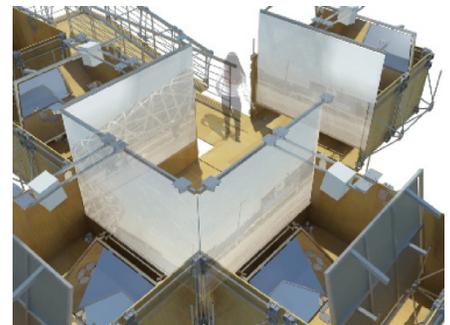
HO:ME Project Community Center Design

Exhibitions

Net Zero Pedal Structure 1st Annual Mini Maker Faire Structure, Downtown San Luis Obispo, CA. Pedals were cut form the Pneumatic Structure and Made into Bags and Handed out to Children

Research

Portable Lumiere Ghosting Theater Device (Virtual Reality Theater)

2. SOM Advanced High-Rise Professional Design Studio

SOM and Faculty Jury [Craig Hartman, FAIA, Design Partner SOM, in the foreground]

Teams of students from Cal Poly (CP), California College of the Arts (CCA) and UC Berkeley (UCB) Shown with Mid Review High-Rise Models

Student Team Presentations from CP & UCB

WEEK 5

STUDIO

This week we had several desk crits and small reviews for our parti concepts. We were asked to come up with 6-10 varying concepts for this residential tower. I think we are kind of missing the point. The critiques have been pretty negative, and we are scrambling to understand exactly what is being asked for. Our concepts include three ideas for patterning of units, an idea based on a beehive, an idea using minimal surfaces as structural shells, and a more Koolhas idea of digesting program and massing. Another prevalent idea in our preliminary schemes is openings in the building to allow air passage, decreasing the load on the building. The most interest is towards the minimal surface concept because it is uniquely structural.

PROFESSIONAL

The BFS shanghai project is in full swing. The team of 7 is working ravenously on three schemes for the project. A oval shaped scheme, one with a lifted podium, and one with a sloping green roof. I gladly acting as fall boy for every undesireable task. Cleaning up dirty geometry so that it can be 3D printed, cleaning up files, colouring plans and section, organizing tiny white 3d printed massing models. I have been working late almost every night, and eating out dinner with the Team.
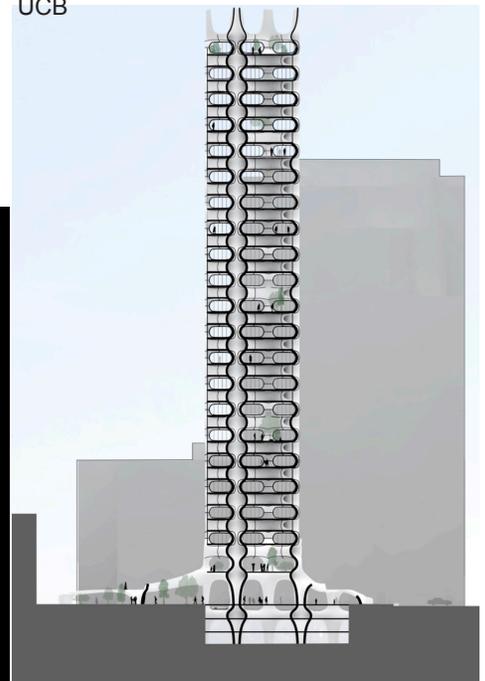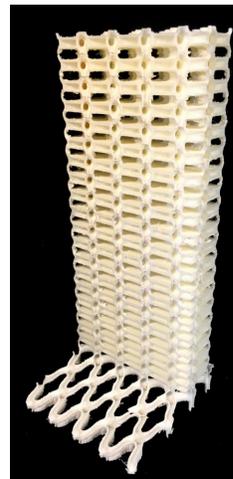
SAMPLE Weekly Reflective Journal Page on Studio and Professional Internship, by Ben Maertens, Fall 2015

Gary Dominguez and Ben Maertens High Rise Tower (R.) Vertical Cross-Section Drawing (L) Structural System Study, 2015
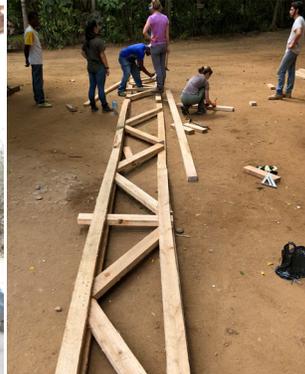
3. Tanzania Project

Same Polytechnic College Design-Build Weather Station (Test Building)

Design-Build Weather Station (Test Building) Built Summer 2018 During a 10-Day Period with 11 Students, Kevin Dong (ARCE), Industy Partner from ARUP (David Lambert), with Assistance from Local Tanzanian Craftsman.
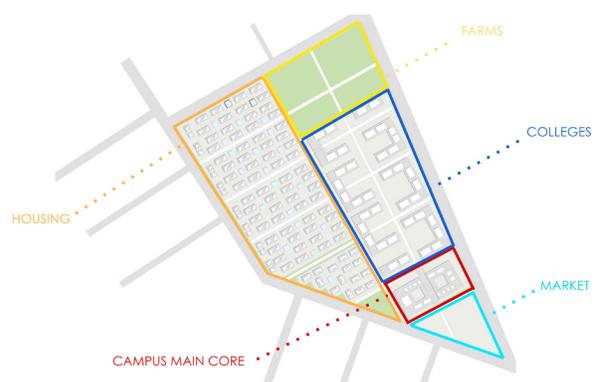

Installing the Truss for the Weather Station

Weather Station Participating Students and Industry Partner from ARUP (David Lambert) and a Community Member.


Students Fabricating the Truss for the Weather Station.

Same Polytechnic College Master Plan and Selected Views of Building Design

Same Polytechnic College (Left Top Row); Master Plan Perspective and Plan Diagram (Right Top Row); Outdoor Market Space (Left Bottom Row); Interior View of Outside Housing Space (Middle Bottom Row) Exterior View of Typical Classroom Building (Right Bottom Row).

Thomas Fowler IV, DPACSA, FAIA

4. Award-Winning Student Designs
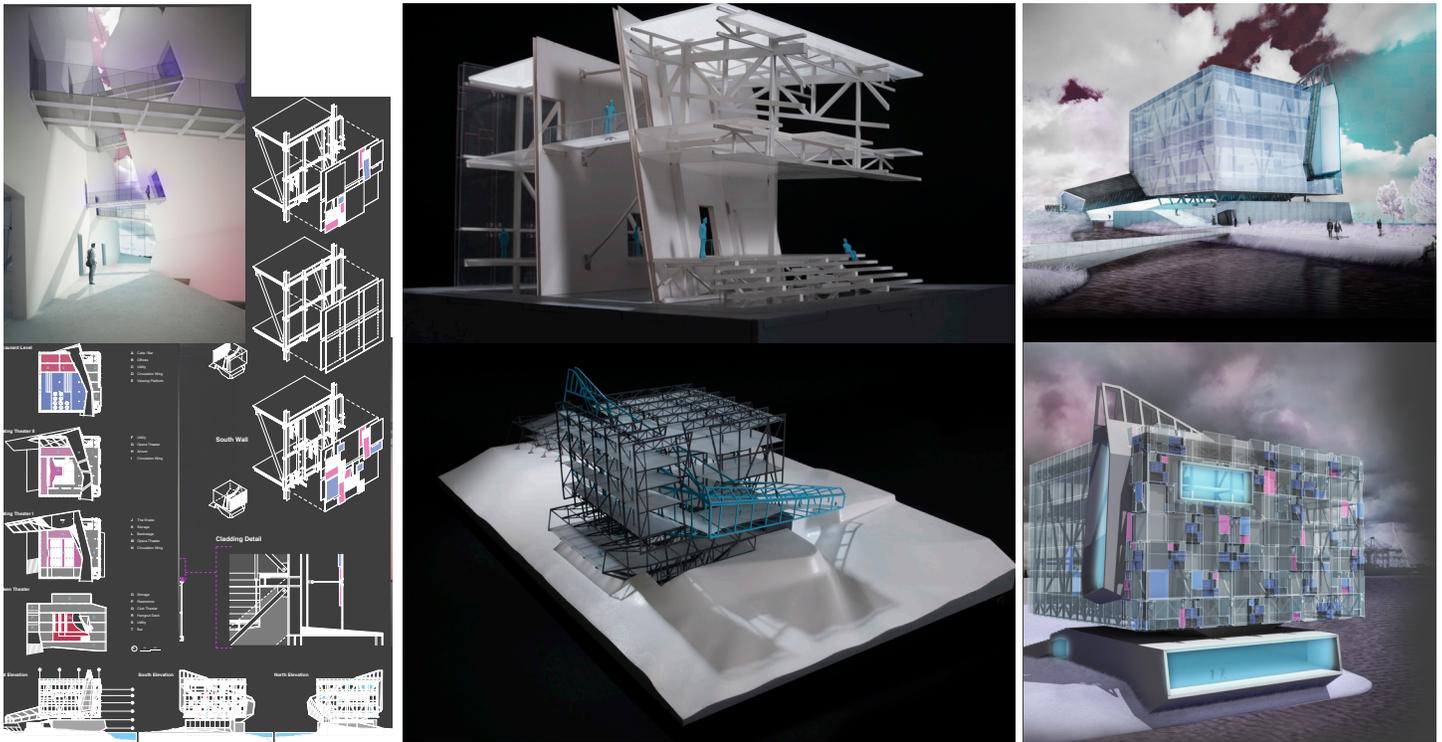
Port of Los Angeles, CA, Theatre Project, Ben Pennell and Trevor Larsen, with the Port of Los Angeles Planning Office, 2013
[First Place Winner for National Steel Competition]

Sarah's Thesis Industry Consultants: (Top) Tim Eliasson, Founding Partner, TriPyramid Structures, Inc, Boston, MA; (Middle) Bruce Nichol, Partner, Front Inc, NY; and (Bottom) Mark Sarkisian, Structural Partner, SOM/SF, CA

Schizophrenic Media Library Tower, Sarah Jester, 2011, Independent 5th Year Thesis Project [Fifth Year Honorable Mention]

Film Documentary, By Jackie Turlick, LAES Senior Project
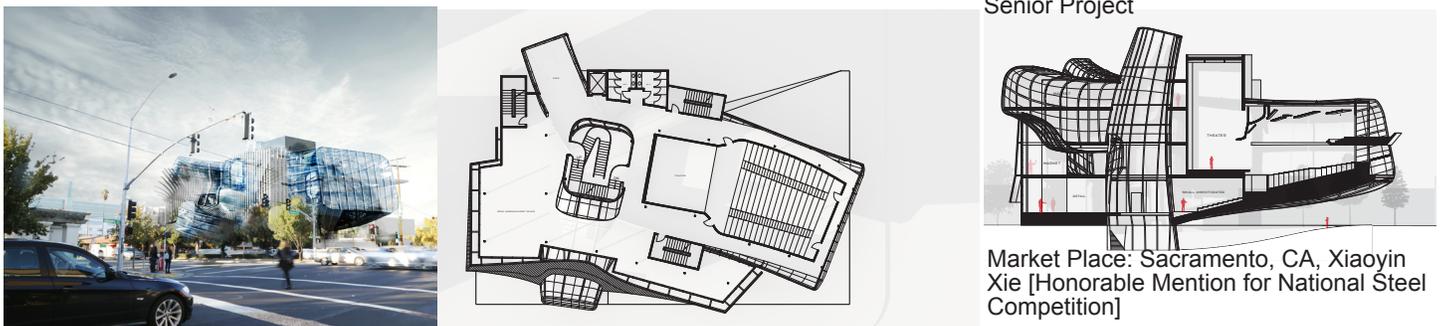
Market Place: Sacramento, CA, Xiaoyin Xie [Honorable Mention for National Steel Competition]

Thomas Fowler IV, DPACSA, FAIA

5. Internnect Program

Internnect Program, 2012-present. A collaboration with Gilbert Bareng, BARCH '03, principal architect of Mangini Associates, Visalia, CA to create a a program to educate underrepresented high school students about opportunities in the profession of architecture. Program is underwriiten by Mangini Associates with support from local high schools and some private donations. High school students participate for free. Program has grown in popularity from 20 students to 60+ students. Annually a collaborative design project brief is developed between INTERNNECT and Cal Poly that allows third year architecture students to work with visiting high school students, mentoring them on design project work and answering questions about the professions that build for the environment. Annually the INTERNNECT program jury selects the top 2 teams of students based on the quality of developed design project to receive scholarships.

El Diamante High School
Visalia Unified School District

Harmony Magnet Academy
Porterville Unified School District

Lindsay High School
Lindsay Unified School District

Orosi High School
Cutler-Orosi Unified School District

INTERNNECT 2K17
Cal Poly Design Charette Agenda

INTERNNECT | CAL POLY FIELD TRIP AGENDA

Friday, January 27, 2017
California Polytechnic State University, San Luis Obispo

- (5am)   Depart HS Campus
- (8.30am)   Meet in front of Cal Poly Performing Arts
- (8.45am-9am)   Touch base on Assignments Due
- (9am-10am)   College of Engineering Overview Tour (Meet at Lobby of Bldg 192)
- (10am-11am)   CAED Campus Tour (Meet at Architecture Bldg stair court)
- (11am – 11.30)   Prepare for Design Collaboration with 3rd year Architecture students
- (11.30am-12.50pm)   Lunch
- (1pm-2pm)   3rd Year Architecture Class Lecture (Business Building Rotunda)
- (2pm-4pm)   Design collaboration with 3rd year Architecture students
- (4.15pm-5pm)   Group Reflections & Internnect Administrative Items
- (5.30pm)   Depart Cal Poly
- (7pm)   Arrive at Kettleman City for dinner (on your own)
- (8pm)   Depart Kettleman City
- (9.30pm)   Arrive at HS Campus

High Schools Participating with Internnect Program and Typical Campus Visit Schedule

Internnect High School Teams Working with Third-Year Architecture Students in a Design Charrette.

Internnect High School Teams Collaborating with Third Year Architecture Students (left) and Presenting Project Posters (middle) and Large Scaled Physical Printout of Site with Design Project Options (right)