SINÉAD C. MAC NAMARA
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EDUCATION

Princeton University, Princeton, NJ.
- Ph.D. in Civil and Environmental Engineering, May 2007. Dissertation: *Shell Structures in Nuclear Containment.* Advisors: Prof. David P. Billington and Prof. Maria Garlock.
- M.S.E. in Civil and Environmental Engineering, May 2002. Thesis: *Glen Canyon and Hoover Dams,* Advisor: Prof. David P. Billington.

Trinity College, University of Dublin, Dublin, Ireland.
- B.A.I. (1st class honors) in Civil, Structural and Environmental Engineering, 1999, Thesis: *Environmental Impact Legislation and Assessment Quality*. B.A. 1999

ACADEMIC POSITIONS

Syracuse University		
Associate Professor	Architecture and Civil Engineering	2014 – Present
Associate Dean for Student Affairs	College of Engineering and Computer Science	2020 – 2023
Assistant Professor	Architecture and Civil Engineering	2006 – 2014
Princeton University		
Assistant in Instruction	Civil and Environmental Engineering	2000 – 2006

ADMINISTRATIVE AND SERVICE ROLES

Syracuse

University Level
- Academic Strategic Plan, Steering Committee, 2022 – Present
- Academic Strategic Plan, Resource Sustainability and Budgeting Working Group, Co-Chair, 2022-2023.
- University Retention and Student Success Council, 2020-2023.
- University Career Services Council, 2021-2023.
- Chancellor's Advisory Committee on Campus Safety and Security, 2014-2021.
- Senate Committee on Budget and Fiscal Affairs, Member 2013-2019. Chair 2017-2019.
- Senator, 2012-2019.
- Academic Strategic Plan Implementation and Oversight Committee, 2015-2016.
- Human Resources Redesign Task Force, 2014-2015.
- Outstanding Teaching Assistant Award Selection Committee, 2013-2015.
- Slutzker Center for International Students and Scholars, Interview Panel, 2010.
- Remembrance Scholarship Selection Committee, 2008-2011.
- Remembrance Convocation Faculty Address, 2009.

College of Engineering and Computer Science
- SWE Society of Women Engineers. SU Student Chapter Faculty Advisor, 2021-Present.
- Associate Dean for Student Affairs, 2020-2023.
- Academic Integrity Coordinator, 2020-2023.
- Academic Committee, 2020-2023
- Dean Search Committee, 2019.
- Civil Engineering Search Committee (Structures), 2018-2019.
- Teaching and Learning Workshop Series, Leader, 2015-2016.
- Strategic Planning Committee, Education, 2012.
- Chi Epsilon (Civil Engineering Honors Society) Awards Dinner Guest Lecture, 2010.

School of Architecture
- Grade Appeals Committee, 2023 – Present.
- Academic Integrity Faculty Panel, 2016-Present.
- Committee on Diversity and Inclusion, 2018-Present.
- Faculty Mentor, 2014-Present.
- Review, Promotions and Tenure Committee. 2014-2015, 2016-2020.
- Graduate Admissions Committee, 2017- 2020.
- Academic Strategic Plan Advisory Committee, 2016-2018.
- American Institute of Architecture Students Freedom By Design Student Group: Faculty Mentor 2009-2016.
- Society of Multicultural Architects and Designers, Student Chapter, Faculty Mentor 2011-2015.

- Curriculum Committee, Member 2006-2011, Secretary 2006-2007, Chair 2007-2008.
- Technology and Space Committee Member 2006-2010.
- Undergraduate Admissions Committee, 2007-2009.

Renee Crown Honors Program
- Core Faculty Member, 2014 – 2020.
- Program Director Search Committee, 2017-2018.
- Capstone Prize Jury, 2015-2020.
- Crown-Wise Funding Award Selection Panel, 2016 – 2020.

National

Administrative Leadership
- BTES, Building Technology Educators' Society, Past-President 2020, President 2019. President Elect 2018.
- ASEE, American Society for Engineering Education, Architectural Division, Chair 2013-2015.
- ASEE, Architectural Division, Treasurer, 2011 – 2013, 2015-2017.
- ASEE, Annual Conference and Exposition, Best Paper Jury, 2015.
- a2ru, Alliance for the Arts in Research Universities, Curricular and Co-Curricular Committee, 2013-2015.
- NSF Education Awardees Conference, panel coordinator and final report author, 2010.

Peer Review
- Springer, Textbook Reviewer, 2022
- TAD, Technology and Design, 2016-Present.
- BTES, Conference Paper Reviewer, 2018-Present.
- NSF Review Panels, Research in Engineering Education, October 2011, June 2012, July 2015.
- Routledge, Book Reviewer 2013-Present.
- Journal of Engineering Education, Peer Reviewer, 2013.
- Wiley, Reviewer for digital online learning environment for Statics, 2013.
- Wiley, Reviewer for digital online learning environment for Dynamics, 2012.
- ASEE Architectural Division Reviewer 2010 – Present.
- ASEE Mechanical Division Reviewer 2012 – 2013.

AWARDS

- SU Chancellors Award for Public Engagement and Scholarship, ARC 500 *Park Studio*, 2014.
- American Institute of Architects. New York State Merit Award for *Mir'aj* with Julie Larsen and Roger Hubeli, 2014.
- American Collegiate Schools of Architecture. ACSA Design Build Educator Award for *Play Perch,* 2014.
- American Institute of Architecture Students. Freedom By Design National Community Inspiration Award for *Play Perch,* 2014.
- SU Chancellors Award for Public Engagement and Scholarship, ARC 490 and 690 *Play Perch*, 2013.
- American Society of Engineering Education St. Lawrence Division. Outstanding Teacher Award. Spring 2013.
- Reinvent Payphones Design Challenge NYC Mayor's Office, *Smart Sidewalks.* Selected Winner, 2013.
- American Society of Engineering Education Annual Conference. Architectural Engineering Division Best Presentation, 2011.
- Meredith Teaching Recognition Award, Syracuse University, 2011.
- Princeton E-council Award for Teaching Excellence, 2005.

RESEARCH INTERESTS

Pending Projects

Book. *Emerging Tools in Structure and Design.* A monograph presenting and analyzing the tools emerging from industry research centers and academic settings that are being used to generate, optimize, rationalize, and analyze structural form.

Book. *Structural Studies.* A text for teaching structures to architects and engineers that abandons the traditional mode of bounded, pre-digested, context-less examples. Analysis of each of the major structural forms will be presented though case studies of significant contemporary and historical works of structural engineering.

Recent Research

External Consultant on NSF Award from IUSE Program *Collaborative Research: Understanding Context: Propagation and Effectiveness of the Concept Warehouse in Mechanical Engineering at Five Diverse Institutions and Beyond*, a multi-institution effort led by Brian Self at California Polytechnic University San Luis Obispo, aimed at developing instructional resources for engineering mechanics that focus on active learning and conceptual knowledge. 2018-2022.

Book. *Collaboration in Architecture and Engineering 2nd Edition.* A source book for students and faculty engaged in interdisciplinary teaching and learning between architecture and structural engineering. Co-authored with Clare Olsen. Published by Routledge July 2014. The second edition with 40% new content was published in January 2022.

External Consultant for NSF Award from STEP Program. *Enhancing the Climate for Persistence and Success in Engineering (ECliPSE)* let by Julie Hasenwinkel at SU, aimed at finding pedagogical methods enhance retention of engineering students in their first two years of college. 2013-2018.

PI for NSF Award from Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) program: $400,000. *Inspiring Innovation: Merging Pedagogical Paradigms from Engineering and Architecture* funded a projected aimed at increasing innovation and creativity in engineering education. The project included a inter-disciplinary design course for architects and engineers, and a core engineering course reconstituted to address innovation and creativity as integral to the discipline. 2009-2013.

GRANTS AND FUNDRAISING

- National Science Foundation, $250,000. Team member for award from IUSE Program, a multi-institution effort led by Brian Self at California Polytechnic University San Luis Obispo, 2018-2022.
- National Science Foundation, $750,000, External Consultant for grant awarded to Dr. Julie Hasenwinkel and colleagues in the College of Engineering by NSF's STEP program, 2013-2018.
- Syracuse University School of Architecture, Faculty Research Grant, $4000, 2015-2016.
- Syracuse University, Renee Crown Honors Program, Core Faculty Research Award $2500 per AY 2014-2020.
- UPSTATE and City of Syracuse Parks Department. $70,000 in funding secured in collaboration with Larry Bowne for Community Engaged Design Project at *Skiddy Park*, Syracuse, NY. 2014-2015.
- Syracuse University School of Architecture. $10,000 in collaboration with Roger Hubeli for Thin Shell Installation. 2014-2015.
- Lions Club International Fund, $25,000 grant secured in collaboration with Larry Bowne and AIAS FBD as seed funds for further Design Build initiatives at the Jowonio School, 2013-2016.
- Syracuse University Office of the Chancellor, $15,000 for Design Build project *Play Perch*, 2012-2013
- The Denny Family, $10,000 for *Play Perch*, 2012-2013
- The Jowonio School $2,000 for *Play Perch*, 2012-2013
- King+King Architects and Ashley McGraw Architects, $1,750 combined for *Play Perch*, 2013.
- Various student coordinated fundraising efforts, monetary and in-kind donations, ~$10,000 for *Play Perch*, 2012-2013
- National Science Foundation, $400,000, Principal Investigator for grant awarded by the NSF's Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) Award EEC-0935168. This five-year award funded a series of educational initiatives aimed at increasing innovation and creativity in engineering education borrowing pedagogical methods from architecture, 2009-2013
- Syracuse University School of Architecture, Unrestricted Research Funds, $15,000, 2008-2012
- Syracuse University School of Architecture Faculty Works Grant, $5,000, 2007-2008

PUBLICATIONS

Books

S.C. Mac Namara, C. J. Olsen. *Collaborations in Architecture and Engineering 2nd Ed.* Routledge, January 2022.

S.C. Mac Namara, C. J. Olsen. *Collaborations in Architecture and Engineering 1st Ed.* Routledge, July 2014.

Book Chapters

S.C. Mac Namara. L. D. Bowne. "Play Perch" in *The Design Build Studio; Crafting Meaningful Work in Architecture Education* edited by Toyla Stonorov. Routledge, 2018.

S.C. Mac Namara. L. D. Bowne. Book Chapter "Play Perch" in *Green, Hidden and Above - The Most*

Exceptional Tree-houses edited by Sibylle Kramer. Braun Publishing, Switzerland, 2015.

Peer-Review Articles

S.C. Mac Namara. David Billington an Innovator and an Inspiration. *Journal of the International Association of Shell and Spatial Structures*, Vol 61, No. 1, March 2020.

S.C. Mac Namara. L. D. Bowne. Play Perch and The Berg: A Tale of Two Projects. *Dialectic III: A Journal of School of Architectur*e, University of Utah. September, 2015.

S.C. Mac Namara. Structural Art in Contemporary Engineering Education *Festschrift Billington.* editors: Hines, Buonopane, & Garlock, International Network for Structural Art, Princeton 2012.

S.C. Mac Namara, M. Garlock, D.P. Billington. Structural Response of Nuclear Containment Shield Buildings with Construction Openings, *ASCE Journal of Performance of Constructed Facilities*, Vol. 21, No. 2, March/April 2007, pp. 152-156.

Peer-Review Conference Proceeding Publications

C Ramming et al. Large-Scale Development and Deployment of Concept Questions in Statics *Proceedings of the American Society for Engineering Education 2020 Annual Conference and Exposition, Montreal, QC, June 2020.*

S.C. Mac Namara et al. Peer Review for Women in STEM. *Proceedings of the American Society for Engineering Education 2020 Annual Conference and Exposition, Montreal, QC, June 2020.*

S.C. Mac Namara. J. V. Dannenhoffer. First-Year Civil Engineering Students' Knowledge and Confidence in the Use of Visualization and Representation Tools to Solve Engineering Problems**.** *Proceedings of the American Society for Engineering Education 2019 Annual Conference and Exposition, Tampa, FL, June 2019.*

S.C. Mac Namara, Preparing Structural Engineers for Collaboration in Contemporary Design Practice. *Proceedings of the 6th Annual Structural Engineers' World Congress, Cancun, Mexico, November 2017.*

A. Bartosh, E. Krietemeyer, and S.C. Mac Namara, Student Pre-Perceptions of Integrated Design and the Role of Technical Courses in the Architectural Studio. *Proceedings of the American Society for Engineering Education 2016 Annual Conference and Exposition, New Orleans, LA. June 2016.*

S.C. Mac Namara, C.J. Olsen. The Rewards of Collaboration. *Proceedings of the 104th Annual American Collegiate Schools of Architecture Meeting*, Seattle WA, March 17-19, 2016.

S.C. Mac Namara. L. D. Bowne. Controlled Chaos: Modeling Interdisciplinary Practice for Architecture and Engineering Students in a Real-World Community Engaged Design Project. *Proceedings of the American Society for Engineering Education 2015 Annual Conference and Exposition, Seattle, WA, June 2015.*

S.C. Mac Namara. J. V. Dannenhoffer, Scaling Up: The Design Competition as a Tool for Teaching Statics. *Proceedings of the American Society for Engineering Education St, Lawrence Division Conference, Syracuse, April 2015.*

S.C. Mac Namara. L. D. Bowne. Play Perch: A Case Study of Design Build in the Curriculum. *Proceedings of the American Collegiate Schools of Architecture NE Conference 2014, Halifax, NS. October 2014.*

S.C. Mac Namara. L. D. Bowne. Design Build in the Curriculum. *Proceedings of the American Society for Engineering Education 2014 Annual Conference and Exposition, Indianapolis, IN, June 2014*

S. C. Mac Namara. Expanding Expectations: A Community Service Accessible Design-Build Project as an Instigator of Curricular Change. *Proceedings of the BTES Building Technology Educators Society Conference 2013 "Tectonics of Teaching" Bristol, R. I, July 2013.*

S.C. Mac Namara. R. Svetz, Hidden in Plain Sight: Campus Scavenger Hunt to Teach Structures and Technology to Architects. *Proceedings of the American Society for Engineering Education 2013 Annual Conference and Exposition, Atlanta, Georgia, June 2013.*

S.C. Mac Namara. J. V. Dannenhoffer, First Encounters: Statics as the Gateway to Engineering Culture. *Proceedings of the American Society for Engineering Education 2013 Annual Conference and Exposition, Atlanta, Georgia, June 2013.*

S.C. Mac Namara. J. V. Dannenhoffer, Hands-On Learning for Statics in the Smaller Classroom and Potential Scale-Up to the Larger Lecture. *Proceedings of the American Society for Engineering Education 2013 Northeast Section Conference. Norwich, VT. March 2013.*

S.C. Mac Namara. Bringing Engineering into the Studio: Design Assignments for Teaching Structures to

Architects. *Proceedings of the American Society for Engineering Education 2012 Annual Conference and Exposition, San Antonio, Texas, June 2012*

S.C. Mac Namara. Topology Optimization: The Use of Cutting-Edge Numerical Methods in Teaching Structures to Architects. *Proceedings of the American Society for Engineering Education 2012 Annual Conference and Exposition, San Antonio, Texas, June 2012.*

S.C. Mac Namara. The Design Competition as a Tool for Teaching Statics. *Proceedings of the American Society for Engineering Education 2012 Annual Conference and Exposition, San Antonio, Texas, June 2012.*

C.J. Olsen, S.C. Mac Namara. In Support of Pre-Professional Relations: Guidelines for Effective Educational Collaborations between Architecture and Engineering. *Proceedings of the 100th Annual American Collegiate Schools of Architecture Meeting, Boston MA, March 1-4, 2012.*

S.C. Mac Namara, S.P. Clemence. The Value of Short-Term Study Abroad for Civil Engineering Students. *Proceedings of the 2011 ICEE International Conference on Engineering Education, University of Ulster, Belfast, Northern Ireland, August 21-26, 2011.*

S.C. Mac Namara, C.J. Olsen. The Value of Trans-disciplinary Design Education with Architects for Engineering Students. *Proceedings of the 2011 ICEE International Conference on Engineering Education, University of Ulster, Belfast, Northern Ireland, August 21-26, 2011.*

S.C. Mac Namara. Trans-disciplinary Design Teaching for Civil Engineers and Architects – Lessons Learned and Future Plans. *Proceedings of the American Society for Engineering Education 2011 Annual Conference and Exposition, Vancouver Canada, June 2011.*

S.C. Mac Namara. Pedestrian Bridges - Structural Design by Masters of Architecture Students. *Proceedings of the American Society for Engineering Education 2011 Annual Conference and Exposition, Vancouver Canada, June 2011.*

S.C. Mac Namara. The Use of Historical Precedent in Teaching Structures to Architecture Students. *Proceedings of the American Society for Engineering Education 2011 Annual Conference and Exposition, Vancouver Canada, June 2011.*

S.C. Mac Namara. Are We Asking the Wrong Questions? A study of student familiarity with common textbook examples. *Proceedings of the American Society for Engineering Education Global Colloquium on Engineering Education, Singapore, October 18-22, 2010.*

S.C. Mac Namara. Statics 2.0 – Reimagining a core course for increased innovation and creativity. *Proceedings of the American Society for Engineering Education Global Colloquium on Engineering Education, Singapore, October 18-22, 2010.*

S.C. Mac Namara, C.J. Olsen, Scott L. Shablak, Carolina B. Harris. Merging Engineering and Architectural Pedagogy – A Trans-disciplinary Opportunity? *Proceedings of the 2010 ICEE International Conference on Engineering Education, Silesian University of Technology, Gliwice, Poland, July 18-22, 2010.*

S.C. Mac Namara, C.J. Olsen, L. J. Steinberg, S.P. Clemence. Inspiring Innovation. *Proceedings of the American Society for Engineering Education 2010 Annual Conference and Exposition, Louisville Kentucky, June 2010.*

S.C. Mac Namara, M. Garlock. Delamination in Two Layer Thin Shell Dome with Unanticipated Construction Openings *Proceedings of the 6th International Conference on Computation of Shell and Spatial Structures IASS-IACM 2008: "Spanning Nano to Mega", John F. ABEL and J. Robert COOKE (eds.) Cornell University, Ithaca, NY, 28-31 May 2008.*

S.C. Mac Namara, D.P. Billington. Delamination and the structural response of thin shell concrete in nuclear shield buildings with unanticipated construction openings. *Proceedings of the 6th annual international conference on fracture mechanics of concrete and concrete structures, Catania, Italy, 17-22 June 2007.*

INVITED LECTURES, ETC.

Invited Panel Presenter, "Common Challenges and Best Practices in Cultivating Inclusive Praxis: An Interdisciplinary Conversation Among Architecture, Business, Engineering, and Law Professionals" *Syracuse University DEIA Symposium.* October 2023.

Webinar. American Institute of Steel Construction. "The National Museum of African American History and Culture - a collaborative practice exemplar in steel design" Spring 2024 (in progress).

Guest Lecture, "Collaborations in Architecture and Engineering – Communication and Representation" for the *Common Hour* series. With Clare Olsen. California Polytechnic State University, San Luis Obispo.

September 2023 and September 2022.

Guest Lecture, "Collaborations in Architecture and Engineering" With Clare Olsen. Munster Technological University, Cork, Ireland. October 2021.

Keynote Lecture, "A Journey through Structural Engineering" *Structures Forum* California Polytechnic State University, San Luis Obispo, February 2019.

Keynote Lecture, "The Art of Structural Engineering" *Future Proofing Our Infrastructure,* Asia Institute for Technology, Bangkok, Thailand, May 2018

Invited Panel Presenter, *Future of Design - The International Association for Bridge and Structural Engineering*, New York, NY, April 2017

Invited Panel Presenter, *The Design Build Studio: Crafting Meaningful Work in Architecture Education.* Norwich University School of Architecture and Art Lecture Series 2016/2017. Norwich VT, April 2017.

Invited Lecture, *Collaborations in Architecture and Engineering.* Worcester Polytechnic Institute, Worcester, MA, November 2016.

Invited Lecture, *Collaborations in Architecture and Engineering.* Oklahoma State University, Stillwater, OK, April 2016.

Invited Design Workshop Facilitator, *Design Garage* Purdue University Engineering Honors Program, West Lafayette, IN. February 2016.

Invited Book Talk, *Collaborations in Architecture and Engineering,* with Clare Olsen. California Polytechnic Library, San Luis Obispo, CA, May 2015.

Workshop Moderator, *Transections: an interdisciplinary exploration of design between the sciences and the humanities*. Syracuse University School of Architecture, Syracuse NY, April 2014.

Project Presentation*, Mouse House.*, 102nd Annual American Collegiate Schools of Architecture Meeting, Miami, FL, April 2014.

Invited Lecture, *Play Perch.* 102nd Annual American Collegiate Schools of Architecture Meeting, Miami, FL, April 2014.

Invited Speaker, American Institute of Architects New York State Annual Convention. September 2013, Syracuse, NY.

Invited Workshop Leader, Imagining America. Annual Meeting, September 2013,

Guest Lecture. Chi Epsilon (Civil Engineering Honors Society) SU Chapter 2010 Awards Dinner, November 2010.

Invited Lecture and Panel Host, NSF Education Awardees Conference, Reston VA, March 2010.

Faculty Address, SU Remembrance Convocation 2009.

TEACHING EXPERIENCE

Courses taught:

- *Structures I* (ARC 211/ARC 611)
- *Structures II* (ARC 311/ARC 612)
- *Design of Concrete Structures* (CEE 332)
- *Structures and Innovation* (HNR 360)
- *Honors Orientation Seminar* (HNR 100)
- *First Year Experience* (SEM 100)
- *Engineering Mechanics: Statics* (ECS221)
- *Advanced Structural Resolution* (ARC 511)
- *CEED: Community Engaged Engineering Design* (ARC 500)
- *Design + Build* (ARC 490/ARC 690)
- *Shell Structures* (ARC 500/ECS500)
- *Thesis Prep* (ARC 509)
- *Thesis* (ARC 510)
- *Structural Art* (ARC 500)
- *Mexican Architecture and Engineering* (CIE 500/ARC 500) Study Abroad

- *Independent Study* (ARC 690 and CIE 490 various independent studies in Architecture and Engineering)
- *Guest Lecturer and Guest Critic for* ARC 409 Comprehensive Design and individual students

Other Teaching Service and Professional Development

- *Management Development Program*, Harvard University Graduate School of Education. June 2022.
- Faculty Workshop. *Transforming Hot Moments into Learning Opportunities*, Syracuse University. Spring 2022
- Faculty, Staff and Student DEIA Discussion Series. *Dialog Circles.* Syracuse University School of Architecture and School of Education. Fall 2020.
- *Inclusive Teaching Workshop*. Syracuse University. August 2018.
- *Advancing the Dissemination of the Creative Art of Structural/Civil Engineering,* Princeton University, June 2017
- SITETL - *Summer Institute for Technology Enhanced Teaching and Learning*, SU, May 2016.
- Invited Workshop Leader – *Innovation Fellows Program*, Purdue Honors College, February 2016.
- Workshop Leader. SU College of Engineering and Computer Science, *Teaching and Learning Series*, AY 2015-2016.
- Honors Core Faculty, Syracuse University, 2014-2020.
- *ECLIPSE Workshop: How to Engineer Engineering Education* Syracuse University, June 2014.
- NSF *Education Awardees Conference*, Reston VA, March 2010, panel coordinator and final report author.
- *International Network for Structural Art Convocation on Teaching and Scholarship*, Princeton University, 2009, 2011, 2012, 2013.
- Summer Symposium and Workshop "*Teaching and Scholarship in the Grand Tradition of Modern Engineering*" 2004 and 2005.
- Department Liaison to Princeton University McGraw Center for Teaching and Learning, 2004-2005.

DESIGN COLLABORATIONS

- *Runway*. Served as structural advisor to SPORTS (Molly Hunker and Greg Corso) on winning competition design for the City of Santa Barbara. CA, 2016. Project won 2017 ASCA Design Award.
- *Digital Soapbox*. Served as structural engineer in collaboration with Amber Bartosh and Sekou Cooke for competition submission for Streetfest IDEAS CITY 2015.
- *Park Studio* is a community engaged design project directed in collaboration with Larry Bowne that encompassed a joint architecture/engineering design seminar and an architectural studio working with community partners and the City of Syracuse to reimagine and reinvigorate a field house in Skiddy Park on the impoverished Near Westside of Syracuse. 2014-2015.
- *Play Perch* is a design build project by AIAS Freedom By Design on the campus of the Jowonio School on East Genesee St in Syracuse. As Faculty Mentor to the group since its founding in 2008, I proposed, planned and advised an independent study course in Fall 2012 with colleague Larry Bowne to facilitate and initiate the design build project. Both Prof. Bowne and I advised and supervised the project, which was opened in May 2013. The project is a $45,000 outdoor classroom designed to fully accommodate the special needs and traditional needs student population at the pre-school.
- *Mouse House* is a small design build project on the Jowonio Nature Trail completed in Spring 2013. It is a concrete installation designed to complement the Play Perch. The engineering and architecture students in a seminar course taught by colleague Roger Hubeli designed and built the structure. The project was funded by my NSF research into innovation and creativity in structures education. I also consulted on the design process and during construction.
- Syracuse University AIAS *Freedom by Design* 2010-2011. Faculty advisor for a team of student volunteers who designed and fabricated exterior accessibility ramps, including integrated planters, deck spaces, and bench seating in three individual projects for senior citizens.
- *Smart Sidewalks* submitted to the Reinvent Payphones Design Challenge NYC Mayor's Office, February 2013. Selected Winner: Best Functionality. Structural Consultant and Design Team Member.
- *Mir'aj* Structural consultant for competition entry with APTUM Architecture: Julie Larsen and Roger Hubeli, for Pristina Central Mosque Design Competition.
- Syracuse University Society of Multicultural Architects and Designers *Bookcase at La Casita.* Faculty advisor to student volunteers who designed and fabricated furniture for a newly built community center. 2012
- *Air Parterre* submitted to Jardins de Metis: International Garden Festival submission. Nov 2010. Structural Researcher and Consultant with UPSTATE.

- *Pedestrian Bridge Design Project for Baltimore Woods Nature Center* in Marcellus NY. Pro-bono design services in collaboration with colleague Prof. T. Stenson. August 2010.
- *Yeosu Design Competition* with Munly Brown Studios, September 2009. Structural Researcher and Consultant

SELECTED MEDIA

Danielson, Todd. "Change Leader: Engineering Is Much More Than What's Taught in School." *Informed Infrastructure.* Vol 6, No. 1. February 2020, page 58.

Mac Namara, Sinéad. "Notre Dame's Legacy Will Endure, Even If Burned Elements Of The Cathedral Can't Be Reproduced." *CEO World* April 22, 2019. https://ceoworld.biz/2019/04/22/notre-dames-legacy-will-endure-even-if-burned-elements-of-the-cathedral-cant-be-reproduced/

Capitan, Sean. "Maybe Notre Dame shouldn't be rebuilt exactly as it was" *Fast Company.* April 17, 2019. https://www.fastcompany.com/90336296/maybe-notre-dame-shouldnt-be-rebuilt-exactly-as-it-was

Collaborations in Architecture and Engineering

Fitzgerald, Devinee. "Architecture Vs. Engineering: Successful Collaboration." *Line Shape Space.* Autodesk, July 21, 2015. http://lineshapespace.com/architecture-vs-engineering/.

Scott, Rachel. "Collaborations in Architecture and Engineering." Robert E. Kennedy Library, Cal Poly San Luis Obispo. June 8, 2015. http://lib.calpoly.edu/outloud/2015/06/cal-poly-authors-collaborations-inarchitecture- and-engineering/.

Kennedy Library Cal Poly. "Collaborations in Architecture and Engineering." Audio blog post. *Conversations with Cal Poly Authors.* Kennedy Library Cal Poly, 29 May 2015. https://soundcloud.com/kennedy-library/collaborations

S.C Mac Namara, C. J. Olsen. "Collaborations in Architecture and Engineering." *Albeena Magazine*, Saudi Arabia. March 2015.

Park Studio

Haley, Kathleen. "Students Meld Creativity, Community Needs in Field House Redesign." *Syracuse University News*, August 4, 2014.

Play Perch

Morrow, Sally. "Play Perch." *CRIT: The Journal of the AIAS* January 2014

Yackel, Christine. "Accessible Adventure." *Syracuse University Magazine*, Vol 30, No 2. Summer, 2013

Breeden, Joshua. "Out On A Limb." *Syracuse New Times*, June 19, 2013

ArchDaily Staff. ""Play Perch / Syracuse University School of Architecture" *ArchDaily,* June 18, 2013

Kobland, Keith. "Jowonio Play Perch Opens" *Syracuse University News*, May 20, 2013. Video.

WSYR. "Ribbon Cutting at Jowonio School." *WSYR-TV AB,* May 20, 2013. Video.

Hopkins, Candace. "Jowonio Students Unveil New Tree House." *YNN Time Warner Cable*, May 10, 2013. Video and Online Article.

Wenner, Allie. "There's No Such Thing as You Can't." *Eagle Bulletin.* May 12, 2013.

YNN Staff. "Jowonio School Receives Play Perch from SU Architect Students." *YNN Time Warner Cable*, May 8, 2013, Video and Online Article.

Kobland, Keith. "Architecture Students Build Treehouse Unlike Any Other." *Syracuse University News*, May 1, 2013.

Post Standard Editorial Board. "Consider This: Scholarship in Action at Jowonio." *The Post-Standard*, December 11, 2012

Elzo, Erin. "Building a Better Treehouse." *The Post-Standard*, December 10, 2012

Smart Sidewalks

Haley, Kathleen. "Designing the Street-Smart Phone." *Syracuse University News*, April 15, 2013.

Miller, Michael. "New York's phone boxes get new lease of life." *BBC News, Business.* March 21, 2013.

Dunlap, D. "Up for a Vote, the Payphone of the Future." *New York Times*, March 13, 2013.

Leher, B. "Future of Payphones." *The Brian Lehrer Show,* NPR WNYC, March 12, 2013.

McHugh, Sharon. "Cast your vote." *World Architecture News,* March 11 2013.

Walter, Alexander. "Six Finalists of NYC's Reinvent Payphones Design Challenge." *Archinect*, March 11, 2013.

Wall Street Journal Digital Network Live "Calling Up the NYC Payphone of the Future." *WSJLive,* March 2013. Video.

Palermo, Elizabeth. "NYC Design Contest Reinvents the Payphone." *Scientific American*, March 9 2013.

Macguire, Eoghan. "Who you gonna call? New York reinvents the pay phone." *CNN Tech Cable News Network*, March 8, 2013.

Anderson, Lamar. "Can New York Turn Its 11,000 Payphones Into Public Smartphones?"*Architezer News, Architizer*, March 7, 2013.

Dickey, Megan Rose. "New York City Thinks Payphones Will Exist In The Future And This Is What They Could Look Like." *SFGate. The San Francisco Chronicle*, March 7, 2013.

Beekman, Daniel. "Thousands of city pay phones to get technological makeover after reinvention competition." *New York Daily News*, March 6, 2013.

CBS New York "New York City Asks Residents To Vote On Innovative Pay Phone Design." *CBS Local Media*, March 6, 2013.

Pristina Central Mosque Design Competition Entry
Mir'aj. This competition entry by APTUM Architecture, Julie Larsen, Roger Hubeli, Andres Jaime and other SU students, for which I served a structural consultant was featured on several architecture blogs including: *ArchDaily, Archinect, ARCH resource, Architecture Lab, Bustler, Design Boom,* and *eVolo.*

Freedom By Design Cadillac Street Ramp
YNN Staff, "Architecture Students Give Man New Lease on Life." *YNN Time Warner Cable*, May 24, 2011. Video

Post Standard Staff, "Freedom by Design Helps Out." *The Post Standard,* May 24, 2011.

Syracuse.com Staff. "Ramp Project Gives Syracuse Man Freedom by Design." *The Post-Standard/syracuse.com*, May 20, 2011.