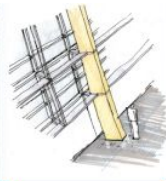
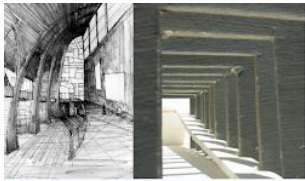


Susan M. Reynolds

architect
engineer

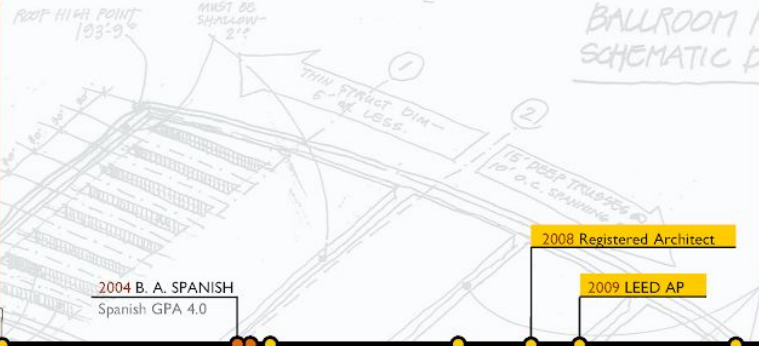


1994-2000
Undergraduate Education
Auburn University

2000 BACHELOR OF ARCHITECTURE
ranked 3 of 64; GPA 3.64
1999 Architects Equities
1998 Architectureworks

2000-2002
TVS Design
Intern Arch.
Chicago

2002 Olsen & Assoc.



2004 B. A. SPANISH
Spanish GPA 4.0

2008 Registered Architect

2009 LEED AP

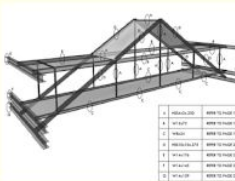


2011-2012
Asst. Prof.
School of Arch.
Tuskegee University

2004 M.S. CIVIL ENGINEERING
Structures Track GPA 3.79

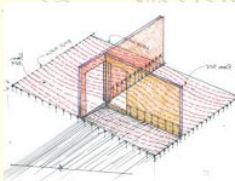
Research Assistant
Teaching Assistant

2002-2004
Graduate Education
University of Illinois
at Urbana-Champaign



2006 ICOMOS Internship
2004 RSFPE Fellowship
2005 National Trust for Historic Preservation
2006 ICCROM

2004-2007
Structural Engineer
Robert Silman Assoc.
Washington, DC



2010 Professional Engineer

2007 - 2010
Structural Engineer
AECOM
Washington, DC



2018-2020 **Director**
Thorson First-Year Honors Program
2014-2018 **Assistant Department Head**
Dept. of Civil and Environmental Engineering

2012-2017 Teaching Associate Professor
2017-present Teaching Professor

2012-present
Civil and Environmental Eng.
Colorado School of Mines



Curriculum Vitae

revised 1/1/2021

- [1.0 Education](#)
- [2.0 Academic Appointments](#)
- [3.0 Architecture / Engineering Licenses, Practice, and Projects](#)
- [4.0 Teaching Experience](#)
- [5.0 Academic Service](#)
- [6.0 Publications, Presentations, Proposals](#)
- [7.0 Conferences and Training](#)

1.0 Education

M. S. Civil Engineering (Structural)

University of Illinois

2004

Graduate Teaching Assistant 2002 – 2004

Graduate Research Assistant 2002 – 2004

Thesis: *“Documentation and Modeling of the Thomas M. Siebel Center for Computer Science: A Framework for the Development of a Living Laboratory for Structural Health Monitoring”*

GPA: 3.79 / 4.00

Selected coursework: Steel I and II; Concrete I, II, and III; Wood Design; Matrix Structural Analysis; Structural Mechanics; Structural Dynamics; Finite Elements

B. Architecture

Auburn University

2000

Thesis: *“A New Music Education and Performance Facility for Auburn University”*

GPA: 3.64 / 4.00

Selected coursework: Design Studio (each term); Drawing; Structural Fundamentals; Environmental Controls; History & Theory; Construction Technology; Professional Practice; Urban Design Methods

B. A. Spanish

Auburn University

2004

GPA: 4.00 / 4.00

Selected coursework (4 courses were transferred from UIUC to Auburn): Literature (multiple courses); History (multiple courses); International Business Spanish; Syntax; Composition; Oral Spanish; Phonetics;

2.0 Academic Appointments

Colorado School of Mines

Golden, Colorado, USA

Academic Ranks

Teaching Professor

August 2017 - present

Teaching Associate Professor

August 2012 - August 2017

Leadership Appointments

Assistant Department Head,
Civil and Environmental Engineering Department

August 2014 - May 2018

Director,
Thorson First-Year Honors Program

July 2018 - May 2020

John Cabot University

Rome, Italy

Visiting Summer Professor

Summer 2015, 2017, 2018, and 2019

Tuskegee University

Tuskegee, Alabama, USA

Assistant Professor
Taylor School of Architecture & Construction Science

December 2011 – May 2012

3.0 Architecture / Engineering Licenses, Practice, and Projects

PROFESSIONAL LICENSES

Professional Engineer	State of Alabama	2011 – present
Professional Engineer	Commonwealth of Virginia	2010 – present
Registered Architect	District of Columbia	2008 – present
LEED Accredited Professional	U.S. Green Building Council	2008 – 2013

ENGINEERING / ARCHITECTURAL PRACTICE

AECOM, Washington, DC and Arlington, VA Engineer (Associate) 2007 – 2010

Responsibilities: Structural design and documentation. Selected projects: Mercy Clinic Expansion, Janesville, WI; Second Avenue Subway, New York, NY; Big Meadows Lodge, Luray, VA; National Museum of National History, West Wing, Washington, DC; Navy Medical Biological Defense Research Laboratory, Ft. Detrick, MD; National Park Service Headquarters and United States Park Police Headquarters, Washington, DC; The Pentagon, Arlington, VA; and Regional Correctional Facility, Ft. Leavenworth, KS.

Robert Silman Associates, Washington, DC RSFPE¹ / Structural Engineer 2004 – 2007

Responsibilities: Structural design and documentation. Selected projects: The National Gallery of Art (East Building), Washington, DC; Advanced Research and Technology Building, Charlottesville, VA; and The National Portrait Gallery (Old Patent Office Building), Washington, DC.

ICCROM², Rome, Italy ICOMOS³ Intern Summer 2006

Responsibilities: Researched global structural preservation trends, deployed international survey, preliminary planning and content outline for a technical international course entitled “Structural Issues Related to Conservation of the Built Heritage.”

¹ RSFPE: Robert Silman Fellow for Preservation Engineering

² ICCROM: International Center for the Conservation and Restoration of Cultural Property

³ ICOMOS: International Council on Monuments and Sites

The National Trust, Washington, DC

RSFPE⁴

2004 – 2005

Responsibilities: Assessments of National Trust properties. Selected projects: The Farnsworth House, Plano, IL, and the Stephen Decatur House, Washington, DC. Wrote “How to Inspect a National Trust Historic Site,” internal publication.

tvdesign, Chicago, IL

Intern Architect

2000 – 2002

Responsibilities: Drafting construction documents, construction administration, and coordination. Selected projects: Hyatt Regency, Orlando, FL; McCormick Place West Expansion, Chicago, IL; and Washington Convention Center, Washington, D.C.

Miscellaneous

Architectural internships at Olsen and Associates, Champaign, Illinois (Summer 2002); Architects Equities, Champaign, Illinois (Summer 1999); and ArchitectureWorks, Birmingham, Alabama (Summer 1998). Responsibilities included both hand- and CAD-drafting construction documents and building both physical and digital models.

SELECTED PROJECTS

The Varner House, Tuskegee, AL, for Tuskegee University (owner). Condition assessment of an antebellum mansion and a feasibility analysis for the proposed rehabilitation project. Author (pro bono), 2011.

Mercy Clinic Expansion, Janesville, WI, for Ellerbe Becket (architect). Structural design of a geometrically complex 1-story steel-framed health care facility and connection to existing hospital. Project structural engineer with AECOM, 2010.

Office of Chief Army Reserves, Ft. Belvoir, VA, for US Army Corps of Engineers. Fast-track design of structural steel for a 2-story office building to generate a steel mill order prior to project award; antiterrorism design (project awarded to others). Project structural engineer with AECOM, 2010.

Second Avenue Subway, New York, NY, for the NY Metropolitan Transit Authority. Visual surveys and condition assessments of 180 existing buildings along the proposed subway line to mitigate structural damage under anticipated vibrations and settlement. Task leader with AECOM, 2010.

⁴ RSFPE: Robert Silman Fellow for Preservation Engineering

Big Meadows Lodge, Luray, VA, for the National Park Service. Condition assessment of the deteriorated reinforced concrete and masonry 1920s era historic structure, and recommendations for structural stabilization and repairs. Project structural engineer with AECOM, 2009.

National Museum of Natural History, West Wing, Washington, DC, for the Smithsonian Institution. Analysis of the structural capacity of the existing storage facility to be upgraded to high-density storage for museum artifacts. Project structural engineer with AECOM, 2009.

National Museum of Health and Medicine, Silver Spring, MD, for the Army Corps of Engineers. Pre-design architectural and engineering services and compilation of a Request For Proposal for Design-Build services by others for a one-story museum. Project structural engineer with AECOM, 2009.

Defense Media Activities Building and Adjudication Activities Building, Ft. Meade, MD, for the Army Corps of Engineers. Full architectural/engineering design services for two new multi-story structures. Building Information Modeling (BIM) was contractually obligated. BIM Implementation Lead with AECOM, 2009.

Navy Medical Biological Defense Research Laboratory (NMBDRL), Ft. Detrick, MD, for the Army Corps of Engineers. Pre-design architectural and engineering services and compilation of a Request For Proposal for Design-Build services by others for a 2-story research laboratory with stringent vibration criteria on a site characterized by karst terrain. Project structural engineer with AECOM, 2009.

Flight Simulator (Building 206), Dover, DE, for Dover Air Force Base. Structural engineering services for the renovation of the existing building, including roof reinforcement and antiterrorism (blast) engineering upgrades to existing glazed windows and doors. Project structural engineer with AECOM, 2009.

Squadron Operations Building, Fire Station, and Base Supply Building, Martinsville, WV, for the West Virginia Air National Guard. Construction administration services for three low-rise structures. Original structural design and documentation (by others) contained errors, necessitating re-design, revision of details, and change orders. Project structural engineer with AECOM, 2009.

National Park Service Headquarters and United States Park Police Headquarters, Washington, DC, for the Park Service. Preliminary structural design of a 2-story office, 3-story police station, 3-story parking deck, and 2-story hangar (project remains unbuilt). Project structural engineer with AECOM, 2008.

The Pentagon, Arlington, VA, for Washington Headquarter Services. Structural analysis of portions of the original 1940s reinforced concrete structure under the application of potential helicopter, crane, and vehicular loads. Project structural engineer with AECOM, 2008.

Regional Correctional Facility, Ft. Leavenworth, KS, for the US Army Corps of Engineers. Structural design of four small, new buildings that support the 224,000 square-foot prison. Project structural engineer for the four supporting buildings and antiterrorism design for the entire project, with AECOM, 2007.

The National Gallery of Art (East Building), Washington, DC, for the National Gallery. High-profile façade investigation of exterior stone cladding panels with insufficient structural anchorage, including extensive research, investigation, and on-site testing and analysis. Project structural engineer with RSA, 2006.

The Farnsworth House, Plano, IL, for the National Trust. Extensive condition assessment of Mies van der Rohe's one-story steel masterpiece; special attention to oxide jacking and corrosion protection, cracking of marble pavers, and moisture migration. Primary assessor with the National Trust, 2005.

Advanced Research and Technology Building, Charlottesville, VA, for Perkins + Will (architect). Owner: The University of Virginia. Structural design of a new 750,000 square-foot steel-framed research laboratory with stringent vibration mitigation requirements. Supporting structural engineer with RSA, 2006.

The National Portrait Gallery (Old Patent Office Building), Washington, DC, for Beyer Blinder Belle (architect). Owner: The Smithsonian Institution. Blast analysis and upgrade to the historic unreinforced 4-story masonry bearing walls and historic glazed windows. Project structural engineer with RSA, 2004.

McCormick Place West Expansion, Chicago, IL, for the Metropolitan Pier and Exposition Authority. Architectural design of a new 2.5 million square-foot addition to the existing convention center featuring 100 foot tall curtain walls. Supporting architectural designer/drafter and liaison to structural consultant with tvsdesign, 2002.

Washington Convention Center, Washington, DC, for the Washington Convention Center Authority. Architectural design services for a new 2.3 million square-foot convention center during construction. Supporting architectural designer/drafter with tvsdesign, 2001.

Hyatt Regency Hotel, Orlando, FL, for the Hyatt Corporation. Preliminary architectural design of a new 34-story high rise hotel (project remains unbuilt). Supporting architectural designer/drafter with tvsdesign, 2001.

4.0 Teaching Experience

SUMMARY TABLE:

			<i>Institution</i> ⁵	<i>Created by:</i>	<i>Project-Based</i>	<i>Flipped Classroom</i>	<i>Graphics Instruction</i>	<i>Reading-Intensive</i>	<i>Writing-Intensive</i>
Structures Courses									
ENGR 210	Statics		JCU	S. Reynolds		x			
CEEN 311	Mechanics of Materials		CSM	others					
CEEN 314	Structural Theory		CSM	others					
CEEN 544	Structural Preservation		CSM	S. Reynolds		x			
ARCH 343	Structures I		TU	others					
ARCH 344	Structures II		TU	others					
ARCH 443	Structures III		TU	others					
Project-Based, Open-Ended, and Interdisciplinary Design Courses									
HNRS 105	IDEAS I (First-Year Honors)		CSM	S. Reynolds with five others ⁶	x		x	x	x
HNRS 115	IDEAS II (First-Year Honors)		CSM		x		x	x	x
EGGN 491	Senior Design I		CSM	others	x				x
EGGN 492	Senior Design II		CSM	others	x				x
Construction Courses									
CEEN 360	Intro. to Construction Eng.		CSM	S. Reynolds	x	x			
CSMT 435	Soils and Foundations		TU	others					
CSMT 342	Construction Methods		TU	others					
CSMT 352	Construction Safety		TU	others					
Miscellaneous									
CEEN 398	The Brooklyn Bridge		CSM	S. Reynolds				x	x
ARCH 364	Historic Preservation I		TU	S. Reynolds	x			x	x
CEEN 499	Independent Study: BIM		CSM	n/a	x		x		

⁵ CMU = Colorado School of Mines; JCU = John Cabot University; TU = Tuskegee University

⁶ Professors Burgess, Handorean, Hitt, Lefton, and Mattjik

LISTED CHRONOLOGICALLY:

		<u>status</u>	<u>selected course development activities</u>
Spring 2011, Tuskegee University			
	Structures II x1	new prep	
	Soils and Foundations x1	new prep	
	Construction Safety x1	new prep	
Fall 2011, Tuskegee University			
	Structures I x1	new prep	
	Structures III x1	new prep	incorporated a field trip to a steel mill
	Historic Preservation I x1	new prep	
Spring 2012, Tuskegee University			
	Structures II x1	2nd time	experiential load testing of concrete beams
	Construction Methods x1	new prep	
	Soils and Foundations x1	2nd time	
Fall 2012, Colorado School of Mines			
	Mechanics of Materials x2 (coordinated by others)	new prep	created i>clicker exam review game
	Senior Design I - advised 4 teams (coordinated by others)	new prep	
Spring 2013			
	Mechanics of Materials x1 (coordinated by others)	2nd time	began to post problems and solutions on YouTube
	Senior Design II - advised 4 teams (coordinated by others)	new prep	
	Structural Preservation x1	new prep	site visits for experiential learning
Fall 2013			
	Senior Design I - advised 1 team		
	Senior Design I and II - course coordination	new prep	designed and launched a course mgmt. database
	Mechanics of Materials x1 (coordinated by others)	3rd time	began to implement skeleton notes
Spring 2014			
	Senior Design II - advised 1 team		
	Senior Design I and II - course coordination	new prep	developed /deployed new modular lecture content
	Mechanics of Materials x1 (coordinated by others)	4th time	
	Independent Study: Building Information Modeling	1st time	by request of 3 students
Fall 2014			
	Mechanics of Materials x2	5th time	created course-level learning outcomes

	Mechanics of Materials - course coordination + recitations x2	new prep	
	Structural Theory x1	new prep	moderated three in-class structural design charrettes
Spring 2015			
	Mechanics of Materials x2	6th time	
	Mechanics of Materials - course coordination + recitations x4	2nd time	incorporated the case study of the Brooklyn Bridge
	Independent Study: Building Information Modeling x1	2nd time	by request of one student
Summer 2015			
	Statics x1	new prep	
Fall 2015			
	2/3 of Mechanics of Materials x3	7th time	on leave for the final weeks of the semester
	Structural Preservation x1	2nd time	incorporated multi-modal reflections
Spring 2016			
	No teaching assignments - on leave		
	Course coordination of Mechanics of Materials x1	8th time	voluntary assignment despite being on leave
Fall 2016			
	IDEAS I (First-Year Honors I) x1	new prep	co-created a unique, innovative learning experience
	IDEAS hand graphics (recitations) x4	new prep	solely responsible
	Mechanics of Materials x2	9th time	
Spring 2017			
	IDEAS II (First-Year Honors II) x1	new prep	co-created a unique and innovative learning experience
	IDEAS CAD graphics (recitations) x3	new prep	solely responsible
	Introduction to Construction Engineering x1	new prep	created and launched FoodBuild v1.0
Summer 2017			
	Statics x1	2nd time	
Fall 2017			
	IDEAS I (First-Year Honors I) x1	2nd time	
	IDEAS hand graphics (recitations) x4	2nd time	added TA instruction
	Mechanics of Materials x1	10th time	
Spring 2018			
	IDEAS II (First-Year Honors II) x1	2nd time	
	IDEAS CAD graphics (recitations) x3	2nd time	added TA instruction

	Introduction to Construction Engineering x1	2nd time	implemented FoodBuild v2.0
Summer 2018			
	Statics x1	3rd time	
Fall 2018			
	IDEAS (First Year Honors) I x4 + course coordination	3rd time	reimagined and overhauled the curriculum
	IDEAS (First Year Honors) I x6: hand graphics (recitations)	3rd time	reimagined and overhauled the curriculum
Spring 2019			
	IDEAS (First-Year Honors) II x4 + course coordination	3rd time	reimagined and overhauled the curriculum
	IDEAS (First-Year Honors) II, CAD graphics (recitations) x5	3rd time	reimagined and overhauled the curriculum
Summer 2019			
	Statics	4th time	course reorganization and change to flipped classroom
Fall 2019			
	No teaching assignments - on leave		
Spring 2020			
	The Triumphs and Failures of the Brooklyn Bridge x1	new prep	
Fall 2020			
	Mechanics of Materials x2 - first time taught remotely	11th time	added an open-ended project; created v2.0 of skeleton notes; created course website; created digital models
	Introduction to Construction Engineering x1 - first time taught remotely	3rd time	adapted hands-on in-person learning to remote, browser-based activities

5.0 Academic Service

SERVICE ACTIVITIES AT TUSKEGEE UNIVERSITY (reverse chronological order)

Juror, The Architecture & Engineering of Sustainable Buildings Student Competition, Chicago, IL.	2012
Design and Construction of Art Installation / Signage for TSACS	2012
Wrote a pro-bono Structural Condition Assessment of the historic Varner House	2012
Varner House Restoration Committee, member, Tuskegee University	2011-2012
Curriculum Committee, member, Taylor School of Architecture & Construction Science (TSACS)	2011-2012
IT Committee, chair, TSACS	2011-2012
Webmaster, TSACS website	2011-2012

SERVICE ACTIVITIES AT COLORADO SCHOOL OF MINES (chronological order)

AY12-13

Search Committee for Sustainable Structures Faculty (Shiling Pei hire)	2012-2013
Advised the AY12-13 Mines Concrete Canoe Team	2012-2013
Planned and organized Springfest for the Mines ASCE Competition Teams	Spring 2013

AY13-14

Advised the AY13-14 Mines Concrete Canoe Team	2013-2014
CEE Senior Design Special Task Force, Chair	Fall 2013
All-day meeting with delegation from Palestine and the City of Golden	Fall 2013
Represented CEE at Discover Mines	Fall 2013
Represented CEE at Preview Mines	Spring 2014

AY14-15 (also includes leadership activities as Assistant Department Head, Year 1 of 4)

Undergraduate Curriculum Development Lead (charged by the DH to lead this effort)	2014-2015
Wrote and submitted UG Assessment Reports (2 total, one for Civil Eng. and 1 for Env. Eng.) to Academic Affairs	2014-2015
Wrote and submitted a Graduate Assessment Report (for all CEE grad programs) to Academic Affairs	2014-2015
Designed, created, and deployed the CEE Department BlackBoard site	Fall 2014
Designed, deployed, post-processed, and presented the results of a series of surveys to students and alumni	Fall 2014
Wrote "Summary of CEE Constituency Advisory Council Interviews" after >10 individual phone interviews	Fall 2014
Co-wrote successful Tech Fee proposal for a \$135k Material Testing Machine and a \$5k Infrared Camera	Spring 2015 (installed)

Created two curricular workshops for CEE faculty: "Curriculum Walk-Through" and "Drivers for Change"	Spring 2015
Represented CEE at Preview Mines	Spring 2015
Planned and executed the AY14-15 CEE Constituency Advisory Council meeting	Summer 2015
Redesigned flowcharts for the BSCE and BSEV	Summer 2015

AY15-16 (also includes leadership activities as Assistant Department Head, Year 2 of 4)

Primary scheduler for the CEE department	2015-2016
Wrote and submitted UG Assessment Reports (2 total, one for Civil Eng. and 1 for Env. Eng.) to Academic Affairs	2015-2016
Wrote and submitted a Graduate Assessment Report (for all CEE grad programs) to Academic Affairs	2015-2016
Represented CEE at Discover Mines	Fall 2015
Collaborated with CASA and J. Bachmeier to create promotional materials for the Civil Engineering program	Fall 2015
Interviewed (and featured in) a promotional video for the Civil Engineering program	Fall 2015
Wrote a report: "Fundamentals of Engineering (FE) Exam Results, 2005-2015, Civil & Env. Majors"	Spring 2016
Represented CEE at Preview Mines	Spring 2016
Designed and deployed the "CEE Assessment Form" for Program-Level assessment of learning outcomes	Spring 2016
Created a four-year teaching schedule projection for CEE	Summer 2016
Designed and deployed a graduate student exit survey	Summer 2016
Planned and executed the AY15-16 CEE Constituency Advisory Council meeting	Summer 2016

AY16-17 (also includes leadership activities as Assistant Department Head, Year 3 of 4)

Primary scheduler for the CEE department	2016-2017
Led development of four new CEE minors and ASIs	2016-2017
Attended multi-day Scheduling Workshop offered by Registrar personnel	August 2016

AY17-18 (also includes leadership activities as Assistant Department Head, Year 4 of 4)

Primary author of the ABET Self-Study report for the B.S. Civil Engineering	2017-2018
Primary author of the ABET Self-Study report for the B.S. Environmental Engineering	2017-2018
Primary scheduler for the CEE department	2017-2018
Readmissions Committee	2017-2018
Architectural Review Committee	2017-2018
Promotion and Tenure Committee (CEE department)	Fall 2017
CEE Curriculum Committee, Chair	Spring 2018
Wrote v1.0 of the CEE Policies and Procedures Manual	Spring 2018
Wrote a faculty workload policy for CEE	Spring 2018
Wrote a successful Tech Fee Proposal (\$1.5k) to support the Thorson First-Year Honors Program	Spring 2018

AY18-19 (also includes leadership activities as the Director of the Thorson First-Year Honors Program, Year 1 of 2)

Core Curriculum Committee	AY18-19
Readmissions Committee	AY18-19
Redesigned the application for the Thorson First-Year Honors Program	Fall 2018
Designed and launched thorson.mines.edu	Fall 2018
Represented the Thorson First-Year Honors Program at Discover Mines	Fall 2018
Traveled on an experiential learning trip to Costa Rica with 10 Mines students	Winter Break 2018
Represented the Thorson First-Year Honors Program at Preview Mines	Spring 2019
Wrote a Strategic Plan for the Thorson First-Year Honors Program	Spring 2019
Wrote a successful Tech Fee Proposal for \$10k: "Modernization of Honors House Technology: STEAM Station"	Spring 2019
Chair, Search Committee for Assistant Director (Shumaker hire)	Summer 2019

AY19-20 (also includes leadership activities as the Director of the Thorson First-Year Honors Program, Year 2 of 2)

Core Curriculum Committee	AY19-20
Readmissions Committee	AY19-20

AY20-21

Promotion and Tenure Committee (CEE department)	Fall 2020
Social Committee (CEE department)	2020-2021
Faculty Awards Committee (CEE department)	2020-2021

6.0 Publications, Presentations, Proposals

CONFERENCE PROCEEDINGS PAPERS (PEER-REVIEWED)

Reynolds, S.M. **Visual Communication in the Remote Classroom: Interactive CAD Models in a Mechanics of Materials Course.** 2021 ASEE Annual Conference & Exposition. Abstract accepted 10/2020. Conference scheduled for 6/2021.

Reynolds, S.M. **FoodBuild: An Edible Simulation of a Design-Bid-Build Construction Project.** 2021 ASEE Annual Conference & Exposition. Abstract accepted 10/2020. Conference scheduled for 6/2021.

Reynolds, S. M. (2016, October), **Critical Thinking for Open-Ended Engineering Problems Through Written Reflection: A Case Study.** Paper presented at 2016 ASEE Rocky Mountain Section Conference, Cedar City, Utah. Paper presented October 2016.

Reynolds, S. M., & Tackie, R. N. (2016, June), **A Novel Approach to Skeleton-Note Instruction in Large Engineering Courses: Unified and Concise Handouts that are Fun and Colorful.** Paper presented at 2016 ASEE Annual Conference & Exposition, New Orleans, Louisiana.
<https://peer.asee.org/26383>

Reynolds, S. M. (2016, April), **A Pedagogical Approach for a Sophomore Mechanics of Materials Course.** Extended abstract presented at 2016 MYEE Conference, College Station, Texas. <http://myeec.org/papers/s614.html>

Turner, C. J., & Reynolds, S. M. (2014, June), **Multidisciplinary Construction Engineering Design Projects.** Paper presented at 2014 ASEE Annual Conference, Indianapolis, Indiana. <https://peer.asee.org/22856>

INVITED PRESENTATIONS

Reynolds, S. M. (2017, April), **Reversibility in Historic Preservation and its Application to Sustainable Design Practices in New Construction.** Panel discussion at 2017 ASCE Structures Congress, Denver, Colorado.

RESEARCH, GRANTS

NCARB Grant 2011, National Council of Architectural Registration Boards. **“Preservation Tenets, Technology, and Stewardship of the Historic Tuskegee University Campus.”** \$11,700. Awarded in full 9/2011. Co-PI with Prof. R. Fluker. To incorporate issues facing the architecture profession into the academy by building partnerships with practicing architects and to strengthen historic preservation education at Tuskegee.

HUD Grant. **“Rehabilitation of the Tuskegee University Alumni and Community Center.”** Proposal submitted 2011. Co-PI with several others (not funded). Anticipated involvement was as a technical building specialist and adviser.

Getty Campus Heritage Grant, Getty Conservation Institute. Educational Component: **“Research, Assessment, and Planning for a Historic Structure,”** \$17,000. Awarded in 2006 (to others); inherited in 2011. Administrator of the educational component. Purchased technical preservation equipment (flashlights, tape measures, crack gauges, work gloves, safety goggles, accelerometers, displacement sensors, liquid dyes that fluoresce under black light, student cameras, an infrared camera, and finite element software) to support preservation education.

Preliminary course planning, **“Structural Issues Related to Conservation of the Built Heritage,”** for ICCROM, Rome, Italy, 2006. Research included construction of a database of people and organizations in structural conservation, creation and deployment of a questionnaire to conservationists worldwide, and development of a course outline.

MISCELLANEOUS PRESENTATIONS AND WORKSHOPS

“Facilitating ‘Hands-On’ Learning in a Browser: Project-Based Learning in Online and Remote STEM Courses,” Massachusetts PKAL (Project Kaleidoscope) Regional Network, Association of American Colleges and Universities, STEM Ed in the Time of COVID19. Abstract accepted 12/2020. Workshop 1/7/2021.

“An Experimental Lattice Structure for Collaborative and Interdisciplinary Teaching Teams,” abstract accepted by the Western Regional Honors Conference (the 3/2020 conference was cancelled suddenly when COVID-19 cases began to emerge in the U.S.).

“Place as Text: GPS-Based, Dynamic, Geophysical Mapping,” abstract accepted by the Western Regional Honors Conference (the 3/2020 conference was cancelled due to emergence of COVID-19).

“From Trailhead to Summit,” an original art piece accepted by the Western Regional Honors Conference (the 3/2020 conference was cancelled due to emergence of COVID-19).

“Takeaways from the Academic Management Institute,” Colorado School of Mines, 4/2019.

“AMI Project: Strategic Plan for the Thorson First-Year Honors Program,” AMI Workshop 4 of 4, 3/2019, Pueblo, CO.

“An Integrated, Collaborative Engineering and Humanities Teaching Model for First Year Students” workshop. ASEE Regional Conference, Boulder, CO. Authored and presented by Alina Handorean, Mirna Mattjik, and Susan Reynolds, representing the faculty cohort of Burgess, Handorean, Hitt, Lefton, Mattjik, and Reynolds. 3/2018.

“One Size Doesn’t Fit All: A Contrast Between the Course Design of Sophomore and Graduate Courses,” Colorado School of Mines Pedagogy Seminar Series, 11/2016.

“Preservation Challenges of African American Sites with Ties to Tuskegee: Three Case Studies,” Tuskegee University Black History Month lecture series, 2/2012.

“Common Sense Revit Solutions,” AECOM Structural Summit, Virginia Beach, VA, 9/2008.

“Revit Experiences and Lessons Learned,” AECOM Architectural Atelier, Charlotte, NC, co-presenter with S. Oaks and A. McCreary, 4/2008.

“An Introduction to Revit,” AECOM office, all departments, Washington, DC, 11/2007.

“An Introduction to Revit Structure,” AECOM office, Structural Department, Washington, DC, 7/2007.

“Conservation Engineering: International Trends,” RSA office, Washington, DC, 11/2006.

“A Structural Engineer’s Perspective on Conservation,” ICCROM office, Rome, Italy, 8/2006.

“UVA-ART Building - Seismic Design,” RSA office, Washington, DC, 3/2006.

“A Dialogue of Projects as the Robert Silman Fellow,” 2/18/2005 in Washington, DC and 2/11/2005 in New York, NY, both to an office location of Robert Silman Associates.

Reynolds, Susan: **“Preservation Engineering Trends: the U.S. approach in the context of international practice,”** US/ICOMOS quarterly newsletter, 11/2006.

Reynolds, Susan: **“How to Inspect a National Trust Historic Site,”** internal National Trust publication, 2005.

7.0 Conferences and Training

American Society for Engineering Education - National Conference	(virtual due to COVID)	6/2021
Association of American Colleges and Universities - STEM Ed + COVID	(virtual due to COVID)	1/2021
Academic Management Institute Workshop 4 of 4	Pueblo, CO	3/2019
Academic Management Institute Workshop 3 of 4	Ft. Collins, CO	1/2019
Academic Management Institute Workshop 2 of 4	Denver, CO	11/2018
Academic Management Institute Workshop 1 of 4	Vail, CO	9/2018
National Collegiate Honors Council - Annual Conference	Boston, MA	11/2018
American Society for Engineering Education - Regional Conference	Boulder, CO	3/2018
ASCE Structures Congress	Denver, CO	4/2017
National Collegiate Honors Council - Annual Conference	Atlanta, GA	11/2017
American Society for Engineering Education - Regional Conference	Cedar City, UT	10/2016
American Society for Engineering Education - National Conference	New Orleans, LA	6/2016
The Middle-Years Engineering Experience	College Station, TX	4/2016
Project Kaleidoscope Summer Leadership Institute	Crestone, CO	7/2015
ASCE Department Head Conference	Blacksburg, VA	5/2015
American Society for Engineering Education - National Conference	Indianapolis, IN	6/2014
ABET Symposium	Atlanta, GA	4/2015
ASCE Regional Conference	Ft. Collins, CO	4/2014
ASCE Regional Conference	Logan, UT	4/2013
Center for Sustainable Engineering Workshop	Atlanta, GA	6/2013
Engineering By Doing: Equity, Sustainability, and Hands-On Learning	Golden, CO	5/2013
The Architecture and Engineering of Sustainable Buildings	Chicago, IL	7/2012
LEED Green Associate Test Preparation	Tuskegee, AL	5/2012
Robert R. Taylor Symposium	Tuskegee, AL	4/2011
Progressive Collapse Seminar	Richmond, VA	7/2008
Revit Advanced Training	Washington, DC	4/2008
Design for Shallow Foundations	Richmond, VA	6/2008
Revit Basic Training	Washington, DC	11/2007
APT Building Codes and Historic Rehabilitation	Chicago, IL	10/2006
Autodesk University	Orlando, FL	11/2005
Revit Structure Seminar	Baltimore, MD	7/2005
National Trust Annual Conference	Louisville, KY	9/2004
International Masonry Institute	Annapolis, MD	8/2004