Tom Collins

Curriculum vitae
March 2025

EDUCATION

2015 Ph.D.
University of Oregon, Department of Architecture

The Influence of Design, Operations, and Occupancy on Plug Loads in Student Housing
https://scholarsbank.uoregon.edu/xmlui/handle/1794/19258

Committee: Dr. Alison Kwok (chair), G.Z. Brown, Howard Davis, & Dr. Deborah Olson

2010 M.ARCH
University of Oregon, Department of Architecture

Behavior, Comfort, and Energy Consumption: In Student Residence Halls
https://scholarsbank.uoregon.edu/xmlui/handle/1794/10732

Committee: Dr. Alison Kwok (chair), Dr. Mark Gillem, Fred Tepfer

2002 B.ARCH
Rensselaer Polytechnic Institute, School of Architecture

2002 B.S., Building Sciences
Rensselaer Polytechnic Institute, School of Architecture

2000 Tongji University, RPI China Studies Program

1999 Czech Technical University, RPI Vienna/Prague Summer Studies Program

PROFESSIONAL CREDENTIALS

2007 Registered Architect, Commonwealth of Massachusetts, License # 20525

2005 LEED Accredited Professional (AP), USGBC

ACADEMIC APPOINTMENTS

2015- Ball State University,
Department of Architecture
Assistant Professor – 2015-2022
Associate Professor – 2022-

College of Architecture & Planning
Carbon Credit Purchase Program (C2P2) Director – 2024-

2008-15 University of Oregon, Department of Architecture
Graduate Teaching & Research Fellow

2004-08 Boston Architectural College
Adjunct Instructor

PUBLICATIONS

Edited Volumes

1. Collins, T., Grondzik, W., Kwok, A. (eds) (2019). *Mechanical and Electrical Equipment for Buildings, 13th Edition Learner's Guide*. Hoboken, New Jersey: Wiley.
http://bcs.wiley.com/he-bcs/Books?action=resource&bcsId=11587&itemId=1119463084&resourceId=46020

2. Collins, T., Grondzik, W., Kwok, A. (eds) (2019). *Mechanical and Electrical Equipment for Buildings, 13th Edition Instructor's Manual*. Hoboken, New Jersey: Wiley.
http://bcs.wiley.com/he-bcs/Books?action=resource&bcsId=11542&itemId=1119463084&resourceId=46012

Book Chapters

1. Collins, T. (Forthcoming). Chapter 32, "Signal & Communication Systems" (formatting & edits). In W. Grondzik, D. Overbey & A. Kwok, *Mechanical and Electrical Equipment for Buildings, 14th Edition*. Hoboken, New Jersey: Wiley.

2. Collins, T. (2025). Chapter 14, Design Build: "Leveraging the Solar Decathlon Competition as a Framework for a Comprehensive, Community Engaged, Carbon Neutral Architecture Studio." In R. Puttock, *Teaching Carbon-Neutral Design in North America: Award-winning Architectural Design Studio Methodologies*. New York: Routledge.

3. Collins, T. (2019). Chapter 1, Design Process: "RMI Innovation Center Case Study"; Chapter 12, Active Climate Control: "Ball State University Ground Source Heat Pump Case Study"; Chapter 31, "Elevators" (formatting & edits); Chapter 32, "Escalators & Other Mechanized Circulation Systems" (formatting & edits). In W. Grondzik & A. Kwok, *Mechanical and Electrical Equipment for Buildings, 13th Edition*. Hoboken, New Jersey: Wiley.
ISBN 10: 1119463084

4. Collins, T. (2018). Chapter 2, The Studio: The Integrated Design Process: RMI Innovation Center Case Study; Chapter 5, Case Studies: "Council House 2", "Centre for Mathematical Sciences", "RMI Innovation Center", & "Exploratorium at Piers 15 & 17." In A. Kwok & W. Grondzik, *The Green Studio Handbook: Environmental Strategies for Schematic Design, 3rd Edition*. Oxford, UK: Architectural Press.
ISBN 10: 9781138652293

5. Collins, T. (2011). Chapter 5, Case Studies: "Bad Aibling Spa," "Cambridge Public Library Main Branch," "Kenyon House," "Offices for KfW Banking Group, Frankfurt," "Manitoba Hydro Place," "Marin Country Day School, Learning Resource Center," "One Brighton," & "Yodakandiya Community Complex." In A. Kwok & W. Grondzik, *The Green Studio Handbook: Environmental Strategies for Schematic Design, 2nd Edition* (pp. 307-324, 335-374, 381-387). Oxford, UK: Architectural Press.
ISBN-10: 0080890520

Journal Articles

1. Collins, T., Overbey, D. (2020). Leveraging the U.S. Department of Energy Solar Decathlon Design Challenge as a Framework for Student-Led Adaptive Reuse Projects to Address Context-Specific Sustainable Design, Housing Affordability, and Community Resilience. *Journal of green building*.
https://meridian.allenpress.com/jgb/article-abstract/15/4/201/449474/LEVERAGING-THE-U-S-DEPARTMENT-OF-ENERGY-SOLAR?redirectedFrom=fulltext

Conference Proceedings

1. Collins, T. (2022) Continued Experiences with the Solar Decathlon Design Challenge. Proceedings of the 2022 Residential Building Design & Construction Conference, Virtual, 11-12 May.

2. Mitchell, A., Collins, T. (2020). Tuning the masses: climate specific energy optimization guidelines. EAAE ARCC International Conference 2020.

3. Collins, T., Grondzik, W., (2020). Experiences with Race to Zero/Solar Decathlon Design Challenge. Proceedings of the 2020 Residential Building Design & Construction Conference, State College, 4-6 March.

4. Collins, T., Grondzik, W., (2019). Simulating Design Integration in an Architecture Studio Setting. Proceedings of the 2019 John Reynolds Symposium, Portland, 18-19 October.

5. Collins, T. (2019). EQuALS - Environmental quality in active learning spaces. Proceedings of ARCC 2018 Conference, Philadelphia, 16-19 May.
https://www.researchgate.net/profile/Rebecca_Habtour/publication/333520472_Designing_Happiness_Capitalizing_on_Nature_Restorative_Qualities_ARCC_2018_Proceedings_Vol1_pg_29/links/5cf17ba192851c4dd01f6425/Designing-Happiness-Capitalizing-on-Nature-Restorative-Qualities-ARCC-2018-Proceedings-Vol1-pg-29.pdf#page=300

38% Acceptance Rate

6. Collins, T., Grondzik, W. (2019). Three courses/four typologies: experiences with the 2017 Race to Zero Competition. Proceedings of RBDCC 2018 Conference. State College, PA. 28 February – 2 March.

7. Bollo, C., Collins, T. (2019). The power of words: Grounded Theory research in architecture and design. Proceedings of ARCC 2017 Conference, Salt Lake City, 14-16 June.
https://www.brikbase.org/sites/default/files/ARCC2017_Session2A_Bollo_Collins.pdf
35% Acceptance Rate

8. Collins, T., Hegli, T. (2017). Modelling architecture design studio on practice-based integrated "ways of working." Proceedings of EAAE ARCC International Conference – Lisbon 2016, Lisbon, 15-18 June.
25% Acceptance Rate
ISBN: 978-1-138-02966-8

9. Collins, T., Kwok, A., & Duluk, S. (2014). Visible ventilation: validating & illustrating the performance of a hybrid ventilation system in the United States. *Proceedings* of *13th International Conference on Indoor Air Quality and Climate 2014*. Paper presented at the Indoor Air 2014 conference, Hong Kong, 7-12 July (pp. 486-493). NY: Curran.
ISBN: 978-1-63439-731-5

References to My Work

1. Hernandez, T. F. D. (2023). Exploring Online Biology Curricula Design in Online Biology Courses: A Qualitative Grounded Theory Study (Doctoral dissertation, Northcentral University).

2. Emmanuel, J. G., & Vinodhini, G. O. (2023, July). Recording and Conceptualizing Cultural Values in Landscape: The Travelling Transect-based Drawing approach. In IOP Conference Series: Earth and Environmental Science (Vol. 1210, No. 1, p. 012033). IOP Publishing.

3. Joo, H., Lee, S., Kang, S. J., & Kim, S. Y. (2022). Vacant House Characteristics by Use Area and Their Application to Sustainable Community. Applied Sciences, 12(21), 10696.

4. Sedgewick, F. B. A. (2022). Architects, agency and the design process: creating supportive living environments for ageing. University of Northumbria at Newcastle (United Kingdom).

5. Kalateh Rahmani, E., Afzali, K., & Moinaddini, J. (2022). Investigating the Characteristics and Dimensions of Different Approaches to Grounded Theory in Urban Planning: A Systematic Review. Geography and Urban Space Development, 8(2), 65-80.

6. Wu, Y., Huo, S., Mu, J., & Kang, J. (2022). Sound Perception of Blind Older Adults in Nursing Homes. Buildings, 12(11), 1838.

7. Lehane, J. (2022). Towards Constructivist Grounded Theory Use in Cross-Border Live Projects. Building Material, (24), 55-86.

8. Jiao, L., Li, D., Zhang, Y., Zhu, Y., Huo, X., & Wu, Y. (2021). Identification of the Key Influencing Factors of Urban Rail Transit Station Resilience against Disasters Caused by Rainstorms. Land, 10(12), 1298.

9. Wang, J., Yi, F., Zhong, Z., Qiu, Z., & Yu, B. (2021). Diversity and causality of university students' energy-conservation behavior: Evidence in hot summer and warm winter area of China. Journal of Cleaner Production, 326, 129352.

10. Rahmani, A. I., Syuaib, M., Nuryuningsih, N., Febriansyah, M. C., & Zahra, K. (2021). Volumetric Study: Strategi Perkuliahan Studio Perancangan Arsitektur. TIMPALAJA: Architecture student Journals, 2(2), 136-144.

11. Jami, S., Zomorodian, Z. S., Tahsildoost, M., & Khoshbakht, M. (2021). The effect of occupant behaviors on energy retrofit: A case study of student dormitories in Tehran. Journal of Cleaner Production, 278, 123556.

12. Du, J., & Pan, W. (2021). Examining energy saving behaviors in student dormitories using an expanded theory of planned behavior. Habitat International, 107, 102308.

13. Zamani, B., & Babaei, E. (2020). A Critical Review of Grounded Theory Research in Urban Planning and Design. Planning Practice & Research, 1-14.

14. Fannon, D., & Laboy, M. (2019, May). Methods of knowing. In ARCC Conference Repository.

15. Kan, T. W. (2019). Game Grounds: Playgrounds for gaming in the future city.

16. Welz, K. (2019). School Librarians' Participatory Practices and Development of Professional Identities in a Twitter Online Professional Learning Network (PLN) (Doctoral dissertation, New Jersey City University).

17. McGuire, M. P. (2019). Surface Design Operations in Landscape Architecture. Landscape Journal, 38(1-2), 43-60.

18. Rokosni, A. (2019). Sustainable accommodations affording sustainable behaviours: a mixed method investigation (Doctoral dissertation, Cardiff University).

19. Sellers, B. (2016). Investigating the Influence of the Built Environment on Energy-Saving Behaviors.

20. Osei-Poku, G. (2016). Post Occupancy Evaluation of the Ahanta Hall of Takoradi Polytechnic, Ghana.

21. Stefanovic, I. L., & Gelinas, L. (2012). Ethics, energy demand management and environmental design. Environments: a journal of interdisciplinary studies, 38(1).

22. Jami, S., Zomorodian, Z. S., Tahsildoost, M., & Khoshbakht, M. The effect of occupant behaviors on energy retrofit: A case study of student dormitories in Tehran. Journal of Cleaner Production, 278, 123556.

AWARDS & HONORS

2024 AIA Indianapolis Design Excellence Award: Alley House

2020 ASHRAE LowDown Showdown Energy Performance Modeling Competition 2nd Prize

2019 ASHRAE LowDown Showdown Energy Performance Modeling Competition Finalist Team

2014 ARCC King Student Medal for Excellence in Architectural and Environmental Design and Research

2010 ARCC King Student Medal for Excellence in Architectural and Environmental Design and Research

GRANTS, FELLOWSHIPS, & SCHOLARSHIPS

External

2024 US Forest Service: Wood Innovation Grant (with P. Harwood) (Proposal Pending)
Establish a Regional Panelization Training Site at The Yard in Muncie, IN

2024 Ball Brothers Foundation Rapid Grant (with P. Harwood)
RE-imagining . . . RE-pairing . . . RE-building: Sustainable and Equitable Development and Prefabrication in the Old West End

2022 US Dept. of Energy, Solar Decathlon Build Challenge Grant
Alley House Project (with D. Overbey & P. Harwood)

2022 State Farm Insurance Neighborhood Assist Grant
Alley House Project (with P. Harwood)

2021 Ball Brothers Foundation Rapid Grant
A Vital Study of the Emily Kimbrough Historic District (with J.P. Hall)

Internal

2025 Ball State University ASPiRE Proposal Enhancement Grant (with P. Harwood & S. Kader)
Greener Living: A Post-occupancy Evaluation of the Alley House in Indianapolis

2024 Ball State University, Department of Architecture, In Situ Grant (with P. Harwood)
Mass Timber Mini Module Exploring Innovative and Smart Solutions

2022- Ball State University Immersive Learning Sustained Course Grant: Solar Decathlon

2021-22 Ball State University Immersive Learning Provost Pilot Project Grant: Solar Decathlon Local Build Challenge

2019 Ball State University Immersive Learning Travel Grant & Mini Grant

2018 Ball State University Immersive Learning Travel Grant & Mini Grant

2016-17 Ball State University ASPiRE Junior Faculty Research Grant
EQuALS: Environmental Quality in Active Learning Spaces

Proposals Submitted with External Partners

2024-25 Indiana Economic Development Corporation (IEDC): Regional Economic Acceleration and Development Initiative (READI) (with P. Harwood & the Old West End Development Alliance/City of Muncie) (Proposal Pending)
READI 2.0: East Central Indiana - West End Comprehensive Community Development: Central City Housing Project

Funded Proposals with External Partners

2024-25 US Dept. of Energy (with Slipstream as a contractor)
Monitoring and Analysis of Ball State Alley House

2020-22 Ball Brothers Foundation (with ecoREHAB)
Skilled Trades Education Program

Proposals Submitted but Not Funded

2025 Engagement Scholarship Consortium: Creative Activities Grant Program (with P. Harwood & S. Kader)
Post Occupancy Evaluation of Affordable Inner-city Duplex Housing: Englewood Homes and The Alley House Compared

2024 Engagement Scholarship Consortium (with P. Harwood)
Conducting a Community Housing Needs Assessment for the Historic Old West End (OWE) Neighborhood

2024 Building Better Neighborhoods
REHab . . . REFab: Old West End "Missing Middle" Workforce Housing RE-imagined

2019 Spencer Foundation
SAIL: Spatial Affordances and Interactive Learning (with J. Griffith & S. Kanakri)

2017 Spencer Foundation
SAIL: Spatial Affordances and Interactive Learning (with J. Griffith & S. Kanakri)

2016 Nuckolls For Lighting Education
Lighting Design for Human Needs Course Proposal (with S. Kanakri)

INVITED TALKS

2023 Alley House, Boston Sustainability Council. Virtual, 30 November.

2020 Indoor Environmental Quality in Design, University of Illinois Urbana-Champaign, September 2020 via video.

2019 Environmental Strategies for Schematic Design, University of Illinois Urbana-Champaign, March 13 via Skype.

2017 Teaching ZEB: an example from the USA, ZEB Konferenzen, Research Centre on Zero-emission Buildings, Trondheim, Norway, 19 January.

2017 POE & User Energy Issues, Norwegian University of Science & Technology (NTNU), MS in Sustainable Design Program, Trondheim, Norway, 18 January.

2016 Post-occupancy evaluation in challenging building types, EDRA 47 Raleigh – Innovation: Shifting Ground, May 18-21.

CONFERENCE ACTIVITY & PARTICIPATION

2025 AIA/ACSA Intersections Research Conference: Housing Paradigms, Austin, TX, Jan 9-11

2024 AIA Regional Urban Design Conference, RUDC, Indianapolis, IN, Nov 14

2024 Great Lakes Open Source Mass Timber Collaborative Convening, Detroit, 22-23, Oct.

2024 2024 Residential Building Design & Construction Conference, State College, 27-28 Mar.

2023 EDRA54 Conference, Mexico City, 20-23 May.

2023 SBSE Solar Decathlon Workshop, Denver, 21 April.

2023 Zero Energy Design Designation: Preparing the Next Generation of Designers. ACSA Webinar Virtual, 10 April.
https://www.acsa-arch.org/webinars/2023-zero-energy-design-designation-preparing-the-next-generation-of-designers/

2022 2022 Residential Building Design & Construction Conference, State College/Virtual, 11 May.

2022 PHIUS Developers Summit, Virtual, 26 April.

2021 Skilled Trades Education Program (STEP). Intentional Development and Education for Association Members (I.D.E.A.), Muncie, 5 March.

2021 Managing Change in the Emily Kimbrough Historic District. Intentional Development and Education for Association Members (I.D.E.A.), Muncie, 5 March.

2020 Experiences with Race to Zero/Solar Decathlon Design Challenge. 2020 Residential Building Design & Construction Conference, State College, 4-6 March.

2019 Simulating Design Integration in an Architecture Studio Setting. John Reynolds Symposium, Portland, October 18-19.

2019 Student Research Workshop. 2019 SBSE Retreat, Lima, MT, July 22-25.

2019 From Race to Zero to the Solar Decathlon Design Challenge: Continued Experiences with the DOE's Net-zero Energy Student Design Competition. 2019 SBSE Retreat, Lima, MT, July 22-25.

2018 Further Experiences with Race to Zero. 2018 SBSE Retreat, Moravia, IA, July 15-18.

2018 EQuALS - Environmental quality in active learning spaces. 2018 ARCC Conference, Philadelphia, May 16-19.

2017 Three courses/four typologies: experiences with the 2017 Race to Zero Competition. 2018 Residential Building Design and Construction Conference, State College, PA, February 28-March 2.

2017 Navigating the Race to Zero Student Design Competition. SBSE Retreat, July 25-28.
Every Energy Model is WRONG and INDISPENSABLE. AIA OVR 2017 Conference, Indianapolis, 27 September.

2017 The power of words: Grounded Theory research in architecture and design. ARCC 2017 Conference, Salt Lake City, 14-16 June.

2017 Navigating the Race to Zero Student Design Competition. SBSE Retreat, July 25-28.

2016 Modeling architecture design studio on practice-based integrated "ways of working," EAAE ARCC Lisbon 2016, June 15-18.

2015 Post-occupancy evaluation in challenging building types, EDRA 47 Raleigh, May 18-21.

CAMPUS & DEPARTMENTAL TALKS

2024 CAP First Year, Presentation on Solar Decathlon Alley House

2023 CAP First Year, Presentation on Solar Decathlon Alley House

2022-23 Emerging Green Builders, Presentation on Solar Decathlon Alley House

TEACHING EXPERIENCE

Ball State University

Course	Terms	Subject	Level	Credits	Enroll.
Design Build Seminar	S25	Seminar	UG/G	3	3
Comprehensive Architecture Studio	S25	Design Studio	UG	6	20
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F24	Seminar	UG	3	5
Comprehensive Architecture Studio	F24	Design Studio	UG/G	6	23
Environmental Systems II	F24	Building Tech.	UG	3	43
Comprehensive Architecture Studio	S24	Design Studio	UG	6	29
Environmental Systems I	S24	Building Tech.	UG	3	41
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	S24	Seminar	UG	3	8
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F23	Seminar	UG	3	6
Comprehensive Architecture Studio	F23	Design Studio	UG	6	13
Environmental Systems II	F23	Building Tech.	UG	3	42
Environmental Systems I	S23	Building Tech.	UG	3	28
Comprehensive Architecture Studio	S23	Design Studio	UG	6	12
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	S23	Seminar	UG	3	6
Our Warming World: Adaptation & Mitigation Strategies for Climate Change	F22	Seminar	UG	3	6
Comprehensive Architecture Studio	F22	Design Studio	UG	6	27
Environmental Systems II	F22	Building Tech.	UG	3	42
Design Application Workshop	Su22	Workshop	G	3	6
Comprehensive Architecture Studio	S22	Design Studio	UG	6	12
Solar Decathlon Seminar	S22	Seminar	UG/G	3	6
Comprehensive Architecture Studio	F21	Design Studio	UG	6	15
Environmental Systems II	F21	Building Tech.	UG	3	27
Comprehensive Architecture Studio	S21	Design Studio	UG	6	9
Environmental Systems I	S21	Building Tech.	UG	3	23
Comprehensive Architecture Studio	F20	Design Studio	UG	6	13
Environmental Systems II	F20	Building Tech.	UG	3	32
Comprehensive Architecture Studio	S20	Design Studio	UG	6	10
Environmental Systems I	S20	Building Tech.	UG	3	27
Comprehensive Architecture Studio	F19	Design Studio	U	6	14
Environmental Systems II	F19	Building Tech.	U	3	28

Special Problem in Architecture	Su19	Elective/Design	G	3	9
Community Engaged Design Workshop	Su19	Elective/Design	G	3	8
Environmental Systems I	S19	Building Tech.	UG/G	3	38
Comprehensive Architecture Studio	S19	Design Studio	G	6	9
Environmental Systems II	F18	Building Tech.	UG	3	27
Comprehensive Architecture Studio	F18	Design Studio	G	6	12
Environmental Systems I	S18	Building Tech.	UG	3	26
Comprehensive Architecture Studio	S18	Design Studio	G	6	8
Environmental Systems II	F17	Building Tech.	UG	3	24
Architectural Design 3	F17	Design Studio	UG	5	12
Environmental Systems I	Su17	Building Tech.	UG	3	2
Comprehensive Architecture Studio	S17	Design Studio	G	6	8
Environmental Systems I	S17	Building Tech.	UG	3	25
Architectural Design 3	F16	Design Studio	UG	5	11
Environmental Systems II	F16	Building Tech.	UG	3	18
Environmental Systems II	Su16	Building Tech.	UG	3	3
Environmental Systems I	Su16	Building Tech.	UG	3	2
Architectural Design 4	S16	Design Studio	UG	5	11
Environmental Systems I	S16	Building Tech.	UG	3	20
Environmental Systems II	F15	Building Tech.	UG	3	32

M.Arch Thesis Advising	**Terms**	**Title**
Elizabeth Wickware (HP Advisor)	F24-S25	*Old West End Foodshed: A Strategic Network for Food and Community Resilience*
Nathan Conley (Major Advisor)	F20-S21	*Design and Sustainability for The Workplace In a Post Covid-19 World*
Al Mitchell (Major Advisor)	F19-S20	*Tuning the Masses*
Sean Costello (Major Advisor)	F18-S19	*Thriving Environments*
Daniel Burns (Major Advisor)	F17-S18	*Smart Glass: The Future of Architectural Glazing*
Mason Olson (Minor Advisor)	F17-S18	*Race to Zero Competition*
Akila Anantharaman (Major Advisor)	F16-S17	*Affordable Housing for People Transitioning from Homelessness*
Luke Kamp (Major Advisor)	F16-S17	*Influencing Architecture*
Joe Humpal (Major Advisor)	F16-S17	*STEP - Standard Tracking of Efficient Projects*
Derek Morphew (Minor Advisor)	F16-S17	*Digitally Fabricated Energy*

B.Arch Thesis Advising	Terms	Title
Cade Iles (Major Advisor)	F24-S25	*The Future in Detail: Combining Historical Ornamentation w/ Modern Form*
Long Tram (Major Advisor)	F23-S24	*Small Towns Revival*
Navy Lynch (Major Advisor)	F23-S24	*Jump! Elementary*
Adam Jarosik (Major Advisor)	F22-S23	*Beacon of Hope*
Claire Sloderbeck (Major Advisor)	F22-S23	*Resilience*
Rebecca Booker (Major Advisor)	F22-S23	*Embracing Shelters in a New Light*
Noah Gibson (Major Advisor)	F21-S22	*Repairing our Fabric: Social, Environmental, & Economic*
Luis Olguin (Major Advisor)	F20-S21	*Design for Sustainability: Net-zero Housing Prototype for Mexico*
Mitchell Isenhart (Major Advisor)	F20-S21	*Optimizing the Office Environment*

CMID Master's Thesis Advising	Terms	Title
Sara Bone	S21-23	*Organic Design Interventions and their Relationship to Supportive and Healing Environments for Homeless*

Honors College Thesis Advising	Terms	Title
Alexander Franklin (Major Advisor)	S17	*The Indianapolis Animal Testing and Educational Center*

Guest Critiques at Other Universities

University	Project/Class	Terms	Subject	Level	Instructor
University of Detroit Mercy	Integrated Design Studio	F21, S22, F23, F24	Design Studio	U	Leach/Nelson

Student Awards

2023 2023 SARA Student National Design Awards: Merit Award for Alley House
https://www.sara-national.org/2023-national-student-design-awards

2023 2023 Solar Decathlon Build Challenge. 1st Place Overall. National Renewable Energy Laboratory. Golden, CO. April 19-23. (I was the faculty co-lead)
https://www.solardecathlon.gov/event/2023-build-challenge-results.html

2022 2022 Solar Decathlon Design Challenge. 2nd Place for the Attached Housing Contest. National Renewable Energy Laboratory. Golden, CO. April 22-24. (I was the faculty advisor)

2022 2023 Solar Decathlon Build Challenge. Team advanced to finalist round and received funding. National Renewable Energy Laboratory. Golden, CO. April 22-24. (I was a faculty co-lead) https://www.solardecathlon.gov/event/2022-design-challenge-results.html

2021 2021 Solar Decathlon Design Challenge. 3rd Place for the Urban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 18. (I was the faculty advisor) https://www.solardecathlon.gov/2021/design/challenges-results.html

2020 ARCC King Medal for Student Research Achievement, Al Mitchell. (faculty advisor) https://www.arcc-arch.org/arcc-2020-king-medal-recipients-announced/

2020 Alpha Rho Chi Medal, Al Mitchell. (faculty advisor)

2020 ASHRAE Indianapolis Student Design Competition/Charette. 3rd place. Ball State University, Muncie, IN. February 15. (I am the student branch advisor)

2019 ASHRAE Indianapolis Student Design Competition/Charette. 1st Place. Purdue University, W. Lafayette, IN. February 23. (I am the student branch advisor)

2018 2018 Race to Zero Competition. 2nd Place for the Urban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 22. (I was the faculty advisor) https://www.energy.gov/eere/buildings/2018-results

2017 2017 Race to Zero Competition. 1st Place for the Suburban Single-family Contest. National Renewable Energy Laboratory. Golden, CO. April 23. (I was the faculty advisor) https://www.energy.gov/eere/buildings/2017-results

RESEARCH EXPERIENCE

2024-25 Department of Architecture, Ball State University
Edited/rewrote 1 chapter in *Mechanical and Electrical Equipment for Buildings*, 14th Edition

2023-25 Department of Architecture, Ball State University
Authored 1 chapter in *Teaching Carbon-Neutral Design in North America: Award-winning Architectural Design Studio Methodologies*

2023- Department of Architecture, Ball State University & External Partners
Old West End Development Alliance, Center City Housing Project

2023- Department of Architecture, Ball State University & External Partners
Alley House Monitoring Study
Co-PIs: P. Harwood, Nick Cindrich (USDOE)

2021-22 Department of Architecture, Ball State University
A Vital Study of the Emily Kimbrough District
CoPI: J.P. Hall

2019-20 College of Architecture and Planning, Ball State University
Sitework: The Practice of Remaking Post-Industrial Cities
Co-PI: development of a collaborative research project for initial funding

2018 Department of Architecture, Ball State University
ASHRAE LowDown Showdown: Building Performance Analysis Competition
Worked with a collaborative research & design team

2017-19 Department of Architecture, Ball State University
Edited/rewrote 3 chapters and wrote 1 building performance case study in *Mechanical and Electrical Equipment for Buildings*, 13th Edition

2015-17 Department of Architecture, Ball State University
SAIL: Spatial Affordances in Interactive Learning Pretest
Co-PI: Mixed methods study of an active learning classroom on the BSU campus
2nd Funding Proposal Submitted Summer 2019

2016-17 Department of Architecture, Ball State University
EQuALS: Environmental Quality in Active Learning Spaces
PI: Mixed methods study of indoor environmental quality in 5 ILS classrooms on the BSU campus
Funding: ASPIRE Junior Faculty Grant

SERVICE TO THE PROFESSION

Professional Organizations

2017-23 Society of Building Science Educators (SBSE), Treasurer and Board of Directors

2017 Moderated a panel discussion at the AIA OVR regional conference entitled "Every Energy Model is Wrong & Indispensable," 27 September 2017

2015-17 Society of Building Science Educators (SBSE), Co-chair Scholarships & Awards Committee

External Tenure Review

2023 University of Texas at Arlington

External Journal Peer Review

2021- Journal of Green Building (Editorial Board Member)

2013-16 Building Research & Information Journal (BRI)

External Conference Abstract & Paper Peer Review

2023 Residential Building Design and Construction Conference (RBDCC)

2020 ARCC 2021 Conference

2019 John Reynolds Symposium

External Book Proposal Peer Review

2010- Routledge/Taylor & Francis Group

DEPARTMENTAL & UNIVERSITY SERVICE

Ball State University

2024- Department of Architecture, Salary & Merit Committee

2022-24 Department of Architecture, Promotion & Tenure Committee (P&T)

2021-23 University Higher Learning Commission (HLC) (CAP Representative)

2020-24 University Master Planning & Facilities Committee (COTE Representative)

2019-24 University Council on the Environment (COTE) (CAP Representative)

2017-19 University Core Curriculum Subcommittee (CAP Representative)

2017-18 University Libraries Renovation Committee

2017- Department of Architecture, ASHRAE Student Branch (Founder & Faculty Advisor)

2017-23 Department of Architecture, Architectural Research Centers Consortium (ARCC)

2017 Department of Architecture, BEEnow (Built Environment Education now) Task force

2017 College of Architecture & Planning, CMID Transition Curriculum Committee

2017-23 Department of Architecture, Undergraduate Curriculum Committee (UCC)

COMMUNITY SERVICE

2025 Burris Laboratory School Career Day

2021 Muncie Climate Coalition: Muncie Climate Resiliency Resolution

2018-21 ecoREHAB of Muncie Programs and Projects Committee

2021-22 East Central Neighborhood Association Board, Muncie, IN (Officer)

2020-24 ecoREHAB of Muncie STEP (Skilled Trades Education Program) (Program Advisor & Instructor)

2020-24 City of Muncie Historic Preservation & Rehabilitation Commission Board (Mayoral Appointee)

2019- Emily Kimbrough House Renovation Committee, Muncie, IN (Chair)

2019 Inspire Academy Tool Presentation to 2nd Grade Class, Muncie, IN

2019-24 Northside Middle School STEM Class Project, Muncie, IN

2019-22 HTLC Building Renovation Committee, Muncie, IN

2019- Old Washington St. Festival, Home Tour Chair, Muncie, IN (Chair)

2018-24 East Central Neighborhood Association Board, Muncie, IN (Board of Directors)

2018-24 Grace Village Student Ministry Board (BSU Faculty Advisor, President)

PROFESSIONAL MEMBERSHIPS & AFFILIATIONS

2017- American Society of Heating, Refrigerating, & Air-conditioning Engineers (ASHRAE)

2012- Society of Building Science Educators (SBSE)

2002-24 American Institute of Architects (AIA) # 30231626