

# Jae D. Chang

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## EDUCATION

- 2007 **Doctor of Philosophy in Architecture (Ph.D.)**  
University of Michigan at Ann Arbor
- 2001 **Master of Science in Architecture (M.Sc.)**  
University of Michigan at Ann Arbor
- 1997 **Master of Architecture (M.Arch.)**  
University of Michigan at Ann Arbor
- 1995 **Bachelor of Science in Architectural Studies (B.S.A.S.)**  
University of Illinois at Urbana-Champaign
- 1993-1994 Ecole Nationale Superior d'Architecture d'Veersailles, France

## ACADEMIC APPOINTMENTS

- 2010-present **Associate Professor (tenured)**  
School of Architecture, Design & Planning, University of Kansas
- 2004-2010 **Assistant Professor**  
School of Architecture, Design & Planning, University of Kansas

## RESEARCH + FUNDING

- US\$250,000+ of research funding
- 2011-2012 **High-rise Apartment Heating and Cooling – Co-I**
  - \$10,000 from Samsung Construction and Engineering
  - PI: Jin Chul Park, Chung Ang University
- 2011 **Internationalizing Curriculum**
  - \$850 from International Programs, University of Kansas
- 2011 **China, India and Korea (CIK) Exchange Agreement Support Fund**
  - \$2,300 from International Programs, University of Kansas
- 2009-2013 **New and Renewable Energy System Technologies for Urban Regeneration – Co-PI**
  - \$30,000 from Korean Ministry of Land, Transport, and Maritime Affairs
  - Co-PI: Yong Shik Kim, University of Incheon
- 2008-2010 **Ventilation of Highrise Apartment Complexes – PI**
  - \$10,000 from Trans Electronics (TE)
- 2008 **Indoor Air Quality in Health Care Design – Co-PI**
  - \$3,500 from Greenguard Environmental Institute (GEI)
  - Co-PIs: Pamela Harght and Kelly Cook
- 2007 **Control of Airborne Contaminants in an Emergency Room – PI**
  - \$1,000 from Research and Graduate Studies (RGS)
- 2007-2008 **Indoor Air Quality Issues of Environmentally Sensitive Environments – PI**
  - \$30,000 from Bio-Housing Research Institute (BHRI)
  - Analysis of air quality and ventilation of sustainable built environments
- 2006-2008 **Sustainability Immersion – Co-I**
  - \$6,000 from National Council of Architectural Registration Boards (NCARB)
  - PI: Rob Corser, Co-Is: Shannon Criss, Nils Gore, Keith Diaz Moore
  - Integrating sustainability into the curriculum.
- 2006-2007 **Center School District Kansas City, MO – consultant**
  - PI: Children's Mercy Hospital
  - Analysis of air quality and thermal conditions of eight K-12 school buildings.

- 2006-2008      **Johnson County Sunset Drive Office Building** – Co-PI
- Co-PIs: Shannon Criss, Mahbub Rashid, Kent Spreckelmeyer
  - Analysis of air quality and thermal conditions of LEED Gold Certified office building.
  - Investigation of workplace configuration on ventilation and daylighting performance and impact on occupant wellbeing.
- 2006-2007      **Spencer Film Archive** – PI
- \$750 from Center for Teaching Excellence (CTE)
  - Co-I: Joshua Earhart
  - Analysis of ventilation and pollution distribution of film archive.
- 2006              **Studio 804 Ventilation Design** – PI
- \$1,000 from Office of the Vice Provost for Research (OVPR )
  - \$1,000 from KU Endowment Association (KUEA)
  - Co-I: Nathan Rosemann
  - Development of ventilation design, both mechanical and natural, of design-build residential project using computational fluid dynamics.
  - Indoor air quality, thermal comfort, and energy performance evaluation.
- 2005-2006      **Archive of Recorded Sound and the Richard F. Wright Jazz Archive** – Co-PI
- Co-PI: Tyra Grant
  - Analysis of ventilation and thermal environmental performance of music archive.
- 2005-2006      **Spencer Research Library** – Co-PI
- \$3,500 from Greenguard Environmental Institute (GEI)
  - \$1,000 from Center for Teaching Excellence (CTE)
  - Co-PI: Bryan Falk
  - Analysis of air quality and thermal conditions of North Gallery for preservation of rare books collection and health of library staff.
- 2004-2005      **Quality of Life in Multifamily Residential Buildings** – consultant
- \$24,000 from Yonsei University
  - PI: Jong-Jin Kim
  - Identify standards, technologies, and design methods to guide the design and improve quality of life of future multifamily residential buildings in Korea.
- 1999-2004      **Underfloor Air Distribution System** – PI
- \$100,000 (approx) in funding from various building and technology companies and other project sponsors
  - Analysis of thermal comfort and ventilation performance of an underfloor air distribution system.
- 2002-2003      **Portable Indoor Air Quality Station** – Co-I
- \$6,950 from Undergraduate Research Opportunity Program (UROP), University of Michigan
  - PI: Jong-Jin Kim
  - Design, development, and implementation of indoor air quality station used for research and teaching.

## PROFESSIONAL EXPERIENCE

- 2008-2012      **Korea Telecom Future Technology Laboratory** – consultant
- 2006-2007      **Center School District Kansas City, MO** – consultant
- 2005, 2008      **Sung Architecture** – consultant
- 1997              **Gansam Partners Architects & Associates** – architectural intern, Seoul, Korea
- 1996              **Nacul Center for Ecological Architecture** – architectural intern, Amherst, MA
- 1992              **B. Nesbit** – carpenter, Urbana-Champaign, IL

## PUBLICATIONS

30+ peer reviewed articles

**Full Paper**

- Franklin, C. and Chang, J., Energy Consumption Monitors: Building Occupant Understanding and Behavior, Proceedings of the 2013 ARCC Spring Research Conference, Charlotte, March 27-30 2013 (ISBN 978-0-615-78533-2) pg 474-782
- Moon, J., Chang, J., and Kim, S., Artificial Neural Network for Controlling the Openings of Double Envelopes and Cooling Systems, ICSDEC Conference, Fort Worth, November 7-9 2012 (ISBN 978-0-7844-1268-8) pg 81-89
- Kang, M., Chang, J., Yoon, Y., Kim, S., Determining Occupant-friendly Lighting Environments for Improvement of Visual Perception, ICSDEC Conference, Fort Worth, November 7-9 2012 (ISBN 978-0-7844-1268-8) pg 937-944
- Moon, J. and Chang, J., Conventional Temperature/Humidity vs ANN-Based Predictive/Adaptive Environmental Control Strategies, 31<sup>st</sup> AIVC Conference, Seoul, October 26-28 2010
- Moon, J. and Chang, J., Thermal Sensation Based Humidity Control for Improving Thermal Comfort and Energy Consumption in Non Hot-Dry Climate Zones, 6<sup>th</sup> ISHVAC, Nanjing, November 6-9 2009
- Chang, J. and Kim, D., Influence of High-Rise Apartment Building Complex Layout on External Airflow, 6<sup>th</sup> International Symposium of Asia Institute of Urban Environment, Changchun, September 20-23 2009 (ISBN 978-7-5463-0823-4)
- Moe, K. and Chang, J., Outdoor Views in the Workplace: A Comparison Between a View Intensive and Non Intensive Designed Environment, 9<sup>th</sup> Healthy Buildings, Syracuse, September 13-17 2009
- Chang, J., Comparative Study of Thermal Comfort Performance between an Underfloor and Overhead Air Distribution System Using Experimentation and Computer Simulation, 11<sup>th</sup> Roomvent, Busan, May 24-27, 2009 (ISBN 978-89-89071-02-0)
- Chang, J., Cook, K., Harght, P., Building Material Selection and Air Quality in Healthcare Design: A Survey of the Design and Construction Industry, 25<sup>th</sup> PLEA International Conference, Dublin, October 22-24 2008 (ISBN 78-1-905254-34-7)
- Chang, J., Experimental and Numerical Study of Air Temperature Distribution of an Underfloor Air Distribution System, 29<sup>th</sup> AIVC Conference, Kyoto, October 14-16 2008 (ISBN: 2-930471-27-1)
- Chang, J., Comparative Study of Ventilation Performance between an Underfloor and Overhead Air Distribution System Using Experimentation and Computer Simulation, International Conference on Building Energy and Environment 2008, Dalian, July 13-16 2008 (ISBN 978-0-9816881-1-4)
- Kalbac, K., et al., Integration of LEED into Architectural Education: Case Study of the Sunset Drive Office, 5<sup>th</sup> Annual Hawaii International Conference on Arts & Humanities, Honolulu, January 12-15 2007
- Chang, J. and Kenkel, L., Interdisciplinary Approach to Addressing the Environmental Needs of a Rare Books Library, 5<sup>th</sup> Annual Hawaii International Conference on Arts & Humanities, Honolulu, January 12-15 2007
- Chang, J. and Rosemann, N., Incorporating Computational Fluid Dynamics in the Design/Build of a Single Family Residence, Digital Architecture and Construction 2006, Seoul, September 19-21 2006 (ISBN 978-1-84564-084-2)
- Chang, J., Incorporating CFD into the Design Process of Architectural Education, ARCC/EAAE 2006 International Conference on Architectural Research, Philadelphia, May 31-June 4 2006 (ISBN 2-930301-28-7)
- Chang, J., Environmental Design Through Research Focused Architectural Education, 2006 International Biohousing Symposium, Gwangju, May 22-24 2006
- Chang, J., Kim, J.J., Park, J.C., Computer Modeling of Underfloor Air Supply System, Proceedings of Indoor Air 2002, Monterey, June 30-July 5 2002 (ISBN 0-9721832-0-5)
- Hwang, J.H., Chang, J., Kim, J.J., Multi-Zone Climate Control System for Single Family Home, Proceedings of Indoor Air 2002, Monterey, June 30-July 5 2002 (ISBN 0-9721832-0-5)

Park, J.C., Chang, J., Kim, J.J., A Study on the Indoor Environment of Underfloor Air Supply System Using CFD Analysis, Proceedings of the KSES 2002 Spring Annual Conference

Kim, J.J., Chang, J., Park, S.D., Greening of an Office Building: A real-world experience, Proceedings of The Millennium Conference Sri Lanka 2000, Kandalama, February 22-25 2000 (ISBN 955-9027-09-3)

### **Abstract**

Chang, J., Archival Environments, Conservation Science Annual 2009, Somerset, November 16-18 2009

Chang, J. and Harght, P., Impact of Ventilation System Design on Airborne Infectious Disease Control in an Emergency Room, 13<sup>th</sup> ICID, Kuala Lumpur, June 19-22 2008

Chang, J. and Hodgson, J., Relationship Between Perception of Workplace Environmental Performance and Personal Awareness of Environmental Responsibility, EDRA 39, Veracruz, May 28-June 1 2008 (ISBN 0-939922-32-0)

Chang, J., and Falk, B., Experimental and Computer Simulation Approach to Investigating the Environmental Performance of a Rare Books Archive, 8<sup>th</sup> Indoor Air Quality Meeting, Vienna, April 17-19 2008

Chang, J. and Hodgson, J., Study of Overhead and Displacement Ventilation Systems and Occupant Health in an Emergency Room, IHF 35<sup>th</sup> World Hospital Congress, Seoul, November 6-8 2007

### **Journal**

Moon, J., Lee, J., Chang, J., and Kim, S., Preliminary Performance Tests on Artificial Neural Network Models for Opening Strategies of Double Skin Envelope in Winter, *Energy and Buildings*, Vol. xx, 2013 (ISSN 0378-7788) (under review)

Choi, J.S., Chang, Y.K., and Chang, J.D., The Effect of Perceived Warmth Elicited by Visual Sensation on Judgment of Business Environment, *Psychology & Marketing*, Vol. xx, Issue x, 2013 (ISSN 1520-6793) (under review)

Moon, J., Chang, J., and Kim, S., Determining Adaptability Performance of Artificial Neural Network-Based Thermal Control Logics for Envelope Conditions in Residential Buildings, *Energies*, Vol. 6, 2013 (ISSN 1996-1073) pg 3548-3570

Chong, W.K., and Chang, J., Understanding Engineers' Roles for Delivering Solutions to Curtail Urban Sprawl, *Leadership and Management in Engineering*, Vol. 13, No. 3, July 2013 (ISSN 1532-6748) pg 171-180

Yoon, D.I., Ko, M.J., Cho, Y.H. Ho, J.H., Chang, J.D., and Kim, Y.S., A Study on the Current Status and Feasibility of New and Renewable Energy System with Survey, *Journal of the Korean Society of Living Environmental Systems*, Vol. 20, No. 2, 2013 (ISSN 1226-1289) pg 225-232

Kim, Y.H., Ko, M.J., Kim, Y.S., and Chang, J., Performance Evaluation of Hydrogen Fuel Cell System in Apartment Complex, *Journal of the Korean Society of Living Environmental Systems*, Vol. 19, No. 4, 2012 (ISSN 1226-1289) pg 464-471

Bae, Y.M., Jung, E.J., Kim, Y.S., and Chang, J., Case Studies and Analysis of Indoor Landscaping Methods in Foreign Buildings, *Journal of the Korean Institute of Architectural Sustainable Environment and Building Systems*, Vol. 6, No. 3, 2012 (ISSN 1976-6483) pg 151-158

Ko, M.J., Choi, D.S., Chang, J.D., and Kim, Y.S., Energy Performance Variation of Solar Water Heating System by LCC Optimization in an Office Building, *Journal of the Korean Solar Energy Society*, Vol. 31, No. 2, 2011 (ISSN 1598-6411) pg 89-98

Ko, M.J., Choi, M.Y., Choi, D.S., Chang, J.D., and Kim, Y.S., Feasibility Analysis of a Wood Bioenergy System in an Apartment Complex, *Journal of the Korean Solar Energy Society*, Vol. 30, No. 6, 2010 (ISSN 1598-6411) pg 81-88

Ko, M.J., Choi, D.S., Chang, J.D., and Kim, Y.S., Optimizing the Life Cycle Cost of a Solar Water Heating System in an Office Building Through Simulation, *Korean Journal of Air-*

*Conditioning and Refrigeration Engineering*, Vol. 22, No. 12, 2010 (ISSN 1229-6422) pg 859-866

Chang, J. and Falk, B., Experimental and Computer Simulation Approach to Investigating the Environmental Performance of a Rare Books Archive, *e-Preservation Science*, Vol. 6, 2009 (ISSN 1854-3928, E-ISSN: 1581-9280) pg 180-185

Lee, Y.H., Chang, J., Hwang, J.H., and Kim, J.J., Assessment of Temperature and Velocity in an Office Using the Underfloor Air Conditioning System, *Journal of the Korean Society of Living Environmental Systems*, Vol. 11, No. 1, 2004 (ISSN 1226-1289)

## **SCHOLARLY PRESENTATIONS**

Chang, J. (Keynote Speaker), Energy Consumption Monitors: Building Occupant Understanding and Behavior, International Conference on Intelligent Building System, Seoul, May 8-9 2013

National Science Foundation (NSF) Workshop, invited panelist, Fort Worth, November 7-8 2012

Chang, J., Energy and the Built Environment, ULTRA UKC 2011, Park City, August 12 2011

Chang, J. and Kim, D., Influence of High-Rise Apartment Building Complex Layout on External Airflow, 6<sup>th</sup> International Symposium of Asia Institute of Urban Environment, Changchun, September 22 2009

Chang, J., Comparative Study of Ventilation Performance between an Underfloor and Overhead Air Distribution System Using Experimentation and Computer Simulation, International Conference on Building Energy and Environment 2008, Dalian, July 13-16 2008

Chang, J., and Falk, B., Experimental and Computer Simulation Approach to Investigating the Environmental Performance of a Rare Books Archive, 8<sup>th</sup> Indoor Air Quality Meeting, Vienna, April 17-19 2008

Chang, J. and Hodgson, J., Study of Overhead and Displacement Ventilation Systems and Occupant Health in an Emergency Room, IHF 35<sup>th</sup> World Hospital Congress, Seoul, November 6-8 2007

Chang, J., Investigating the Environmental Performance of a LEED Gold Certified Environment, Third Annual Healthy Indoor Environments Conference, Kansas City, October 5-6 2006

Chang, J. and Rosemann, N., Incorporating Computational Fluid Dynamics in the Design/Build of a Single Family Residence, Digital Architecture and Construction 2006, Seoul, September 19-21 2006

Chang, J., Incorporating CFD into the Design Process of Architectural Education, ARCC/EAAE 2006 International Conference on Architectural Research, Philadelphia, May 31-June 4 2006

Chang, J., Environmental Design Through Research Focused Architectural Education, 2006 International Biohousing Symposium, Gwangju, May 22-24 2006

Chang, J., Healthy Environmental Conditions for the Preservation of Recorded Sound, Architecture Research Symposium, Lawrence, March 29 2006

Chang, J., Environmental Considerations for the Built Environment, Second Annual Healthy Indoor Environments Conference, Kansas City, October 13-15 2005

Kim, J.J., Chang, J., Park, J.C., Computer Modeling of Underfloor Air Supply System, Proceedings of Indoor Air 2002, Monterey, June 30-July 5 2002

Hwang, J.H., Chang, J., Kim, J.J., Multi-Zone Climate Control System for Single Family Home, Proceedings of Indoor Air 2002, Monterey, June 30-July 5 2002

Chang, J. and Kim, J.J., Underfloor Air Supply System for Local Environmental Control, IAR Poster Session, ACSA Annual Meeting, Baltimore, March 16-20 2001

## **OTHER PRESENTATIONS**

Invited Speaker: Putting Teaching into Practice, Hanbat National University, Daejeon, May 18 2012

Invited Speaker: Architectural Education, Kyungbuk National University, Daegu, May 27 2011

Invited Speaker: Architectural Education, Soongsil University, Seoul, May 26 2011

Invited Speaker: Higher Education, Architecture, Academia in the USA, Chung-Ang University, Seoul, November 4 2010

Invited speaker: Health and Architecture, Osher Lifelong Learning Institute, Overland Park, June 17, 24 and July 1 2009.

Invited speaker: Whole Building Energy Analysis – An Overview of Building Energy (Thermal) Simulation, Burns and McDonnell, Kansas City, May 4 2009.

Invited Speaker: Ideas on Energy Saving Technologies for the Building Industry, Universiti Teknologi Malaysia, Jahor, January 5 2009.

Invited speaker: Thinking, Planning, and Building Green, League of Women Voters of Topeka-Shawnee County, Topeka, August 5 2008

Invited speaker: Indoor Environmental Quality Issues in Conservation Environments, Museum Studies: Conservation Principles and Practice, Lawrence, February 14 2008

Invited keynote: Technology and Design, Chung-Ang University, Seoul, November 5 2007

Invited speaker: An Interior Designer's Role in Addressing Indoor Environmental Issues, University of Kansas School of Fine Arts, Lawrence, April 18 2007

Invited speaker: Indoor Environmental Quality Issues in Cultural Spaces, Museum Studies: Conservation Principles and Practice, Lawrence, February 22 2007

Invited speaker: Utilizing CFD to Enhance Environmental Performance, Chung-Ang University, Seoul, September 21 2006

Invited speaker: Research in Architectural Education, Chung-Ang University, Seoul, May 25 2006

Invited speaker: Monitoring Air Quality in Cultural Spaces, Museum Studies: Conservation Principles and Practice, Lawrence, March 2 2006

Invited speaker: Improving Environmental Design by Incorporating Research and CFD in Architectural Practice, DLR Group, Overland Park, January 23, 2006

Invited speaker: New Directions in Architectural Education and Research, Architectural Management, Overland Park, November 12 2005

Invited speaker: Architectural Strategies for Improving Indoor Environmental Health, Emerging Green Builders, Lawrence, November 2 2005

Interview: Profile of Randy Burkett Lighting Design. Bill Townsend, St. Louis Business Journal, September 14 2005

Interview: Health Issues in Architectural Education. Seoul Broadcasting System (SBS), HIEC Conference, Kansas City, MO, September 24 2004

## **AWARDS + HONORS**

2012	<b>Society of Living Environmental Systems – Editorial Board service recognition</b>
2011	<b>ULTRA Program Recognition from the Korea Ministry of Education, Science and Technology</b>
2007	<b>University of Michigan Alumni/ae Board Scholarship</b>
2007	<b>University of Kansas Center for Teaching Excellence Teacher Appreciation Recognition</b>
2005	<b>Who's Who in Fine Arts Higher Education</b>
2004	<b>Doctoral Program Achievement Award</b>
2002	<b>Rackham One Term Dissertation Grant</b>
2001, 1999	<b>Willard A. Oberdick Scholarship</b>
2000	<b>Nathan Levine Architectural Research Fellowship</b>
1995	<b>Theide Art Collection</b>
1993	<b>Parkland College Art Gallery Metal Work Exhibition</b>

1992 **Earl Prize Nomination**

## **ACADEMIC SERVICE**

### **UNIVERSITY SERVICE**

2012-present **KU USGBC Student Chapter** – faculty co-advisor  
2010-2013 **University/Faculty Senate** – member, University of Kansas  
2011-present **Diversity and Equity Advisory Council** – Office of the Provost, University of Kansas  
2009-present **Center for Sustainability** – research and teaching affiliate, University of Kansas  
2009-2010 **International Affairs Committee** – University of Kansas  
2009-present **KU Korean Students Association** – faculty advisor  
2009 **Graduate Student Research Competition** – faculty judge, University of Kansas  
2006-2010 **KU IESNA Student Chapter** – faculty advisor  
2005 **Wheat State Whirlwind Tour** – participant, University of Kansas

### **SCHOOL/DEPARTMENT SERVICE**

2010-present **Multicultural Architectural Scholars Program** – co-director, SADP, University of Kansas  
2010-present **Strategic Group** – SADP, University of Kansas  
2010 **2010 Bradley Teaching Award Selection Committee** – SADP, University of Kansas  
2010-2012 **Architecture Faculty Search Committee** – SADP, University of Kansas  
2006-2007 (committee chair 2009-2010)  
2007-2008 **Interior Design Faculty Search Committee** – School of Fine Arts, University of Kansas  
2006-present **Graduate Studies Committee** – SADP, University of Kansas  
2006-present **Strategic Technology Development Committee** – SADP, University of Kansas  
2010-2014 **Architecture Department Promotion and Tenure Committee** – SADP, University of Kansas  
2005-2006 (committee chair 2013-2014)  
2011-2013 **Architecture Chair Search Committee** – SADP, University of Kansas  
2005-2006  
2005 **Research/Technology Integration Task Force** – chair, SAUP, University of Kansas  
2004-2012 **Center for Teaching Excellence** – ambassador, SADP, University of Kansas  
2004-2005 **Technology Advisory Committee** – SAUP, University of Kansas  
2002-2004 **Lecture Series Committee** – TCAUP, University of Michigan  
2001-2003 **Doctoral Advisory Committee** – TCAUP, University of Michigan  
2001-2002 **Computer Policy Committee** – TCAUP, University of Michigan

## **PROFESSIONAL SERVICE**

2013-present **Sustainable Cities and Society (Elsevier)** – manuscript reviewer, special issue editor  
2013-present **Energies (MDPI)** – manuscript reviewer  
2013-present **ICSDEC 2015 Chicago** – conference and editorial co-chair  
2013-present **ICSDEC** – board of directors  
2013 **International Journal of Steel Structures (Springer)** – manuscript reviewer  
2012-2013 **ARCC 2013** – technical review committee member  
2012 **ICSDEC 2012 Dallas-Fort Worth** – conference and editorial co-chair  
2011-present **Living Environmental Systems** – editorial board member

2011-present **Journal of the Korea Furniture Society** – editorial board member  
2011-present **Indoor and Built Environment (Sage)** – manuscript reviewer  
2011-present **Energy and Buildings (Elsevier)** – manuscript reviewer  
2011-present **Journal of Adhesion Science and Technology (Taylor & Francis)** – manuscript reviewer  
2011 **SBSE Awards and Scholarship Committee** – member  
2010-2011 **International Conference on Sustainable Design, Engineering, and Construction (ICSDEC) 2011 Kansas City** – architecture/planning papers chair  
2010-2011 **ARCC 2011** – paper reviewer  
2010-present **Architectural Research Journal** – editorial board member  
2010 **31<sup>st</sup> AIVC 2010** – International Scientific Committee member, session co-chair  
2009-present **Building and Environment (Elsevier)** – manuscript reviewer  
2009 **ISHVAC 2009** – paper reviewer  
2009 **ECCAC 2009** – session co-chair  
2008-2009 **ROOMVENT 2009** – International Scientific Committee member, session co-chair  
2008 **ACSA 97th Annual Meeting** – paper reviewer  
2008-2012 **ASHRAE Museums SubCommittee: Chapter A21** – reviewer  
2008 **COBEE 2008** – paper reviewer  
2007-present **International Journal of Energy Research (Wiley)** – manuscript reviewer  
2007 **ACSA 96th Annual Meeting** – paper reviewer  
2006-2007 **City of Lawrence Sustainability Advisory Board** – board member (appointed by city mayor)  
2006-2007 **Lawrence Free State High School Career and Technical Education Committee** – committee member  
2006 **Hawaii International Conference on Arts & Humanities 2007** – paper reviewer  
2006 **ASEE 2006** – paper reviewer  
2005-2007 **HIEC Officer/Board Nomination Committee** –committee member  
2005 **2nd Annual Healthy Indoor Environments Conference** – conference committee member  
2005 **Crayon to CAD** – ASHRAE, National Competition Judge  
2005 **Indoor Air 2005** – paper reviewer  
2004-present **Healthy Indoor Environments Coalition (HIEC)** – charter member  
2004 **General Services Administration** – UFAD report reviewer  
2003-2004 **Program Committee** – ASHRAE, Detroit Chapter

### **STUDENT/POST DOC ADVISING**

2013-present Haider Mohamed – Doctor of Philosophy in Architecture (PhD) committee chair  
2012-present Jeehwan Lee – Doctor of Philosophy in Architecture (PhD) committee chair  
2012-present Mohammed Bakarman – Doctor of Philosophy in Architecture (PhD) committee chair  
2012-present Casey Franklin – Master of Arts in Architecture (MA) committee chair  
2012-present Xiaomeng Su – Doctor of Philosophy in Engineering (PhD)  
Camera-Aided Daylighting Assessment and Controls: Fundamentals, Criteria, and Application  
Dr. Hongyi Cai, committee chair  
2012-2013 Linjie Li – Master of Science in Architectural Engineering (MS)  
Impact of New Lighting Technologies on Office Ergonomics  
Dr. Hongyi Cai, committee chair  
2012-present Yuson So – Doctor of Musical Arts (DMA)



	Prof. Richard Reber, committee chair
2011-present	Kin Yip George Kwok – Doctor of Philosophy in Civil Engineering (PhD) Comprehensive Carbon Emissions and Energy Use Flow Analysis for Building Lifecycle Dr. Oswald Chong, committee chair
2011-present	Kyoung Ok Lee – Doctor of Philosophy in Engineering (PhD) Experimental and Simulated Approaches for Optimizing the Thermal Performance of Building Enclosures Containing Phase Change Materials Dr. Mario Medina, committee chair
2011-2013	Jungsil Choi – Doctor of Philosophy in Business (PhD) The Revisiting of Positive and Negative Charity Appeal Effectiveness: Moderation of Color and Victim-Type Dr. Surendra Singh, committee chair
2010-2011	Alex Harbaugh – Master of Arts (MA) Bob Coffeen, committee chair
2010-2011	Shane Kanter – Master of Arts (MA) Bob Coffeen, committee chair
2010-2011	Walter Brooks Hooper – Master of Science in Architectural Engineering (MS)
2009-2012	Norman Philipp – Master of Arts (MA) committee co-chair Bob Coffeen, committee co-chair
2009-2010	Dr. Jin Woo Moon – post doc
2011	Min Hee Chung (Chung Ang University, Seoul, Korea) – Doctor of Philosophy in Architecture (PhD)
2009	Kyeongmi Lee – Doctor of Musical Arts (DMA) Dr. Jack Winerock, committee chair
2008	Pamela Harght – Master of Arts (MA) Bob Coffeen, committee chair

## STUDENT AWARDS

	US\$16,000+ student scholarships
2013	Casey Franklin – recipient of the KU Graduate Student Research Competition Presentation Award (\$250); KU Energy Club Student Symposium Presentation Award (\$300) at 3 <sup>rd</sup> Annual KU Energy Conference; and Sigma Xi Research Competition Award – 3 <sup>rd</sup> place
2012	Lauren Kimball – recipient of the IESNA Heart of America/Flint Hills Chapter Lighting Design Scholarship (\$1,250)
2011	Sara Mae Martin – recipient of the IESNA Heart of America/Flint Hills Chapter Lighting Design Scholarship (\$1,250)
2010	Peter Broeder and Katie Darter – AIA Central States Region Monsters of Design (MoD) Merit Award for KITE LITE (lighting fixture)
2010	Michelle Balducci – recipient of the IESNA Heart of America/Flint Hills Chapter Lighting Design Scholarship (\$1,250)
2008	Kelly Cook – recipient of the IESNA Heart of America/Flint Hills Chapter Lighting Design Scholarship (\$1,250)
2008	Pamela Harght and Kelly Cook – recipients of Greenguard Environmental Institute 2008 Ken Dillon Fellowship for Indoor Environmental Quality (\$3,500)
2007	John Hodgson – recipient of 2007 Undergraduate Research Assistantship (\$1,000)
2007	Lindsay Kenkel – recipient of 2006-2007 Architectural Research Centers Consortium King Student Medal for Excellence in Architectural + Environmental Design Research
2007	Dennis Bell and Michael Patrick – the recipients of IESNA Heart of America/Flint Hills Chapter Lighting Design Scholarship (\$1,250)

- 2006 Bryan Falk – recipient of Greenguard Environmental Institute 2006 Ken Dillon Fellowship for Indoor Environmental Quality (\$3,500)
- 2006 Nathan Rosemann – recipient of 2006 Undergraduate Research Assistantship (\$1,000)
- 2006 Kenneth Simmons – recipient of 2006 Undergraduate Research Award, China (\$500)
- 2006 Clarissa Diaz – recipient of 2006 Fulbright Fellowship, Chile (co-advised)

**COURSES TAUGHT**

**University of Kansas**

- ARCH 200: Architectural Foundations III
- ARCH 209: Architectural Design II
- ARCH 359/700: Directed Research
- ARCH 408/409: Architectural Design III/IV
- ARCH 500/501: Architectural Design VII/VIII
- ARCH 526: Building Power Systems for Architects
- ARCH 527: Lighting for Architects
- ARCH 530: Environmental Systems I
- ARCH 531: Environmental Systems II
- ARCH 600/635: Visualizing Airflow [Computational Fluid Dynamics]
- ARCH 601/701: Introduction to Research Methods
- ARCH 690: Study Abroad [Korea, Malaysia, Singapore, Laos, Thailand, Vietnam, Hong Kong, Macau, China]
- ARCH 691: Practicum
- ARCH 692: Documentation
- ARCH 735: Graduate Seminar in Environmental Systems
- ARCH 930: Doctoral Seminar

**University of Michigan – teaching assistant**

- ARCH 315: Environmental Technology I
- ARCH 712: Advanced Projects in Architectural Research – Analytical and Experimental Modeling in Environmental Technology

**PROFESSIONAL MEMBERSHIPS**

- American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
- International Building Performance Simulation Association (IBPSA-USA)
- International Society of Indoor Air Quality and Climate (ISIAQ)
- International Society for Infectious Diseases (ISID)
- Society of Building Science Educators (SBSE)
- U.S. Green Building Council (USGBC) – Kansas City Chapter