

CURRICULUM VITAE – MARK DeKAY

Education

1992 **Master of Architecture, (post-professional)**

Department of Architecture, School of Architecture and Allied Arts, **University of Oregon**, Eugene, Oregon (research degree). Thesis: *Daylighting and Community Gardening Land Use Design Tools*.

1984 **Master of Architecture, (professional)**

School of Architecture, **Tulane University**, New Orleans, Louisiana. Awarded retroactively when the school converted its 5-yr B Arch to a first-professional M Arch.

Professional Registration and Professional Societies

- **Registered Architect**, State of Vermont, #1907, since 1992
- **Society of Building Science Educators**
- **Building Technology Educators Society**
- **Biophilic Design Education Network**
- **American Solar Energy Society**
- **Fellow, Institute of Green Professionals**
- **American Society of Heating, Refrigeration and Air-conditioning Engineers**



A handwritten signature in black ink that reads "Mark DeKay".

Honors and Awards

- 2018 **Fulbright Specialist Roster**, international peer reviewed consulting program
- 2018 **Best [Creative] Academic Paper Award**, Integral European Conference, Hungary
- 2018 **Best [Applied Theory] Academic Paper Award**, Integral European Conference, Hungary
- 2017 **Chancellor's Award for Research and Creative Achievement**. University of Tennessee.
Given to recognize senior faculty members who have received national and/or international recognition in their field
- 2016 **Green Lights Award**, US Green Building Council, East Tennessee, for *Sun, Wind & Light, architectural design strategies*, 3rd ed.
- 2015 **Building Technology Educator's Society Book Award**, 3rd award, for *Sun, Wind & Light*, 3rd ed.
- 2014 University of Tennessee **Chancellor's Award for Teaching Excellence**
- 2014 **University of Tennessee Scholar of the Week** (office of research and engagement)
- 2011 **AIA Upjohn Initiative Award for architectural research**
- 2011 **University of Tennessee Scholar of the Week** (office of research)
- 2009 **Hon. Fellow, Institute of Green Professionals (FIGP)**
- 2005 **AIA COTE/Tides Foundation Award for Ecoliteracy in Architecture Schools**, with Prof. Ted Shelton, for graduate design studio and seminar in architectural technology. Sponsored by the AIA Committee on the Environment
- 2000 **Fulbright Fellowship**, 5 month lecturing appointment at Center for Environmental Planning and Technology, Ahmedabad, India
- 1995 **AIA National Education Honor Award**, one of three national awards from the American Institute of Architects, for innovations in the graduate class "Environment and Buildings I" at Washington Univ.

Academic Experience

- 7/17 –12/17 **Visiting Scholar**, Integrated Environmental Solutions, Glasgow
College of Architecture and Design, University of Tennessee, Knoxville, Tennessee
- 6/14–present **Professor, tenured**
- 8/02-6/14 **Associate Professor, tenured**
- 6/08-7/11 **Director of Graduate Studies, (college admin)**
- 6/07-6/08 **Interim Director of Graduate Studies, (college admin)**

- 6/08-7/11 **Chair, Architecture Graduate Program, (school of arch admin)**
- 6/07-6/08 **Interim Chair, Architecture Graduate Program, (school of arch admin)**
- 1/01-7/02 **Assistant Professor**
- 7/00-12/00 **Fulbright Scholar**, Center for Environmental Planning and Technology, Ahmedabad, India
- 8/94-12/00 **Assistant Professor**, School of Architecture, Washington University, Saint Louis, Missouri
- 8/92-6/94 **Assistant Professor**, Department of Architecture, College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia.
- 6/90-6/92 **Research Assistant**, Center for Housing Innovation, School of Architecture and Allied Arts, University of Oregon, Eugene, Oregon
- 3/90-9/91 **Adjunct Instructor, design studio and workshops**, School of Architecture and Allied Arts, University of Oregon, Eugene, Oregon

Professional Experience (selected)

- 1987-89 **Architectural Designer/ Intern Architect** , David Sellers & Company, Architects, Warren, Vermont
- 1986-87 **Intern Architect**, William Maclay, Architects and Planners, Warren, Vermont
- 1985-86 **Intern Architect**, E. Eean McNaughton & Associates, Architects, Planners, Exhibit Designers, New Orleans, Louisiana

Related Construction Experience

- 1984-85 **Assistant Estimator/Project Manager**, F. J . Forstall, Co., Inc., general contractors, New Orleans, Louisiana

SCHOLARLY WORK

Profile and Publications

- **GreenVision Studio** (research lab) greenvisionstudio.org
- **InForm** (consulting, lectures and workshops) greenvisionstudio.org/in_form
- **Academia.edu** (publications) utk.academia.edu/MarkDeKay
- **Univ. of Tennessee School of Architecture** (faculty page) archdesign.utk.edu/people/mark-dekay/

Scholarly Work in Progress

- [Host] **Visiting Research Scholar**, Laval University, Quebec, collaborating on research for **Biophilic Design in Cold Climate Elementary Schools**
- [Book in writing] **Felt Form: experiential design patterns**, with Prof. Gail Brager, engineer, (Berkeley). About 75 research-informed design patterns for how to create rich human experiences of living Nature and natural forces via buildings. At least a year to go.
- [Research project] **An Integral Sustainable Design approach to human inhabitation of architectural spaces**, with Astrid Roetzel (PI), Akari Nakai Kidd, Anna Klas and Abdul-Manan Sadick
- [Journal article] Astrid Roetzel, Mark DeKay, Akari Nakai Kidd, Anna Klas, Abdul-Manan Sadick, Vanessa Whittem, Lucy Zinkiewicz (2019). **The Interplay of architectural, indoor environmental, personal and cultural Influences on Student's selection of a preferred Place to study—an Integral Research Approach**, *Architectural Science Review*, [in peer review now]
- [Essay, forthcoming] **Wholeness emerges in the Integral (post-postmodern) multi-perspectival mind**, in Hossein, Sadri, ed. *101 Things We Didn't Learn in Architecture School*. MIT Press

Books/Chapters

- DeKay, Mark (2016). **"Foreword"** to Pygmalion Karatzas, *The Integral Lens, vol. 1, editorial and artistic approaches to architectural photography*
- DeKay, Mark and G. Z. Brown (2014). *Sun, Wind, & Light, architectural design strategies, 3rd edition*. New York: Wiley, 860 pp, primary author. Expanded to two volumes. New knowledge structure; 700 pages of online climate data. Designed book and cover, oversaw all illustrations and layout
- DeKay, Mark (2014). *SWL Tools*, 62-page Excel spreadsheet included 'workbook' to accompany *Sun, Wind & Light, 3rd*
- DeKay, Mark (2014). *Mark DeKay (Sun, Wind & Light graphics)*, in Diane Fox, ed., *Thirty Two, an exhibit by the faculty of The University of Tennessee, Knoxville, College of Architecture and Design*. Knoxville: College of Architecture and Design, publication No Eo1-2710-001-14
- DeKay, Mark (2011). *Integral Sustainable Design, transformative perspectives*. 525 pp, +300 illustrations. London: Earthscan Press/Taylor & Francis. A theoretical book that uses Integral Theory to expand the idea of sustainable design beyond the technological view—to include perspectives of systems, cultures, and experiences at four levels of human values. *The first published book on integral design*.
- DeKay, Mark (2007). *Indian Architecture of the Open Envelope: Natural Cooling for a Hot Climate*, in Diane Fox, ed., *Space + Technology + Place*, exhibited work by the College of Architecture and Design Faculty of the University of Tennessee.
- Brown, G. Z. and Mark DeKay (2001). *Sun, Wind, and Light: Architectural Design Strategies, 2nd ed*. New York: John Wiley and Sons, 382 pp., +700 original illustrations. Available in *English and Portuguese, and Chinese*. I was coauthor of the 2nd edition, with G. Z. Brown, author of the 1st edition. I was primary author on this edition, including writing, editing, tool development, illustration, graphic design, and layout. The second edition expanded to 400 pp. from the 185 pages of the 1st edition.
- DeKay, Mark (2004). *Teachings From Babu Kuti*, in Dziuban, Emily and Kristin Robertson, eds. (2004). *Migrants and Stowaways: an Anthology of Journeys*. Knoxville: Knoxville Writer's Guild.
- DeKay, Mark and Michael O'Brien (2002). **Gray City, Green City, New thinking and new settlement patterns can bring about urban sustainability**, in *UIA Atlas on Architecture of the Future*. <http://fett.ethz.ch/uia/index.htm>.

Peer-reviewed Journals

- DeKay, Mark (2010). **Daylighting and Urban Form, an urban fabric of light**, *Journal of Architecture and Planning Research*. Vol. 27, No. 1, Spring, pp. 35-56.
- DeKay, Mark (1997). **Implications of Community Gardening for Land Use and Density**, *Journal of Architecture and Planning Research*, 14:2 (summer), pp. 126-148. Chicago: Locke Science Publishing.
- DeKay, Mark (1998). **Energy Scheming 2.5: software for architectural design with energy**, *Journal of Architectural Education*, February, 51:3, pp. 206-9.

Professional Journals

- DeKay, Mark, and Michael O'Brien (2001). **Gray City, Green City: New thinking and new settlement patterns can bring about urban sustainability**, *Forum for Applied Research and Public Policy*, Summer, Vol. 16, No. 2, pp. 19-27.
- DeKay, Mark (2001). **Lessons from Babu Kuti, Gandhi's Home at His Last Ashram**, *Connector, A Forum for Teachers of Technology in Schools of Architecture*, Fall issue pending.
- DeKay, Mark (1995). **Comprehensive Design Studio: Washington University**, *Connector, A Forum for Teachers of Technology in Schools of Architecture*, Fall, Vol. IV, No 2, pp. 1, 6-7.

Continuing Education Courses, online

- DeKay, Mark (2011). *Green Design: Ecological Design Thinking: six perceptual shifts*. Published by RedVector
- DeKay, Mark (2009). *Green Design: Intro to Integral Sustainable Design Theory*. Published by RedVector
- DeKay, Mark (2009). *Green Design: Levels of Complexity Theory*. Published by RedVector
- DeKay, Mark (2009). *Green Design: Designing Relationships with Nature*. Published by RedVector

Papers Published in Peer-Reviewed Conference Proceedings

- Baglia, Veda, Mark DeKay, Ruggiero Guida (2018). **Dynamic Microclimate Modelling for Urban Development: Assessing pedestrian comfort, air quality and building ventilation potential**, International Passive and Low Energy Architecture Conference, PLEA 2018, Hong Kong
- DeKay, Mark (2018). **Designing Relationships to Nature: five kinds of stories and five kinds of connection**, Integral European Conference, May 22–27, Siofok, Hungary. *Best [Creative] Academic Paper Award*
- DeKay, Mark and Pygmalion Karatzas (2018). **The Integral Lens: Exploring a Multi-Perspectival Approach to Architectural Photography**, Integral European Conference, May 22–27, Siofok, Hungary
- DeKay, Mark, Astrid Roetzel, Akari Nakai Kidd, Lucy Zinkiewicz, Anna Klas (2018). **An Integral Sustainable Design (ISD) approach to human inhabitation of architectural spaces**, Integral European Conference, May 22–27, Siofok, Hungary. *Best [Applied Theory] Academic Paper Award*
- DeKay, Mark (2017). **The Carbon Balance Index: a simple metric for progress toward net-zero carbon**, 37th International Passive and Low Energy Architecture Conference (PLEA), Design to Thrive, July 3-5, Edinburgh, Scotland
- DeKay, Mark and Sitan Zhu (2017). **Urban Wind Patterns in High-Rise Residential Super-blocks: assessing pedestrian comfort, air quality and building ventilation potential**, 37th International Passive and Low Energy Architecture Conference (PLEA), Design to Thrive, July 3-5, Edinburgh, Scotland
- DeKay, Mark and Peter Giddings (2016). **The Energy Balance Index: Extending the 2030 Targets to plus-energy buildings**, 36th International PLEA Conference (Passive and Low Energy Architecture), Cities, Buildings, People: Towards Regenerative Environments, Los Angeles, CA, July 11-13
- DeKay, Mark and Hansjörg Göritz (2016). **In the Beginning Were Buildings: the radical idea of learning architecture by designing it**, NCBDS32, National Conference on the Beginning Design Student, 1:1, Cal Poly San Luis Obispo, CA, Feb 25–27
- DeKay, Mark (2014). **The Four Perspectives of Integral Sustainable Design**, 30th International PLEA Conference (Passive and Low Energy Architecture), Ahmedabad, India, Dec 16–18
- **The Bundle-Up! Game: a collaborative learning tool for net-zero energy design**, 30th International PLEA Conference (Passive and Low Energy Architecture), Ahmedabad, India, Dec 16–18
- DeKay, Mark (2012). **Using Pattern Maps to Chart the Knowledge Base of Climatic Design**, PLEA 2012, Passive and Low Energy Architecture. 7-9 November, Lima, Peru
- **Five Levels of Aesthetics for Sustainable Design**, PLEA 2012, Passive and Low Energy Architecture. 7-9 November, Lima, Peru
- **Climatic Urban Design: Configuring the Urban Fabric to Support Daylighting, Passive Cooling, and Solar Heating**, Sustainable City 2012, 7th International Conference on Urban Regeneration and Sustainability, 7-9 May, Ancona, Italy
- DeKay, Mark and Mary Guzowski (2006). **A Model for Integral Sustainable Design Explored through Daylighting**, in Campbell-Howe, R., et al., eds., *Proceeding of the National Passive Solar Conference*, American Solar Energy Society, Denver, CO, July 7-13, 2006. Boulder: ASES
- DeKay, Mark (1999). **Learning Design + Energy Through the Whole Building Approach: using Energy Scheming simulation in lecture courses**, *Technology in Transition, Proceedings of the 1999 International Science and Technology Conference*, June 25-27, Montreal, pp. 124-133. Washington: ACSA Press
- DeKay, Mark (1998). **Translating ASHRAE for Architects: Sizing Solar Hot Water Systems and Spacing Roof-Mounted Collectors in Preliminary Design**, in Campbell-Howe, R., et al., eds., *Proceedings of the 23rd National Passive Solar Conference*, American Solar Energy Society, Albuquerque, NM, June 14-17, 1998. Boulder: ASES
- DeKay, Mark (1996). **Systems Thinking as the Basis for an Ecological Design Education**, in Campbell-Howe, R. and B. Wilkins, eds., *Proceedings of the 21st National Passive Solar Conference*, American Solar Energy Society, Asheville, NC, April 13-18, 1996. Boulder: ASES
- **Environment and Buildings I: A Case Study in the Evolving Technical Education of Architects**, in Campbell-Howe, R. and Wilkins, B., eds., *Proceedings of the 21st National Passive Solar Conference*, American Solar Energy Society, Asheville, NC, April 13-18, 1996. Boulder: ASES

- DeKay, Mark (1996). **Possible Evolution of Technology Education in Architecture Schools**, in Young, Beth, ed., *Construction of Tectonics for the Postindustrial World: Proceedings of the 1996 ACSA European Conference*, Copenhagen, Denmark, May 25-29. Washington: American Collegiate Schools of Architecture
- DeKay, Mark (1993). **The Relationship of Building Height to Street Width Under Overcast Skies**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 18th National Passive Solar Conference*, American Solar Energy Society, April 22-28. Washington, D.C. Boulder: American Solar Energy Society
- **Urban Development Patterns for Daylighting**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 18th National Passive Solar Conference*, American Solar Energy Society, April 22-28, Washington, D.C. Boulder: American Solar Energy Society.
- **Implications of Community Gardening for Land Use and Density**, *Proceedings of the 14th International Conference on Making Cities Livable*, Charleston, SC, March 8-12, 1993.
- DeKay, Mark (1992). **A Framework for Understanding the Concerns of Ecological Designers**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 17th National Passive Solar Conference*, American Solar Energy Society, Cocoa Beach, FL, June 15-18. Boulder: ASES
- **A Comparative Review of Daylight Planning Tools and a Rule-of-Thumb for Street Width to Building Height**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 17th National Passive Solar Conference*, American Solar Energy Society, Cocoa Beach, FL, June 15-18. Boulder: ASES
- **Volumetric Implications and a Rule-of-Thumb for Thickness of Atria Buildings**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 17th National Passive Solar Conference*, American Solar Energy Society, Cocoa Beach, FL, June 15-18. Boulder: ASES.
- **Capabilities of Computerized Tools for Passive Cooling and a Case Study Comparison Between Three Methods for Analyzing the Performance of Night Ventilated Thermal Mass**, in Burley, S. M. and M. E. Arden, eds., *Proceedings of the 17th National Passive Solar Conference*, American Solar Energy Society, Cocoa Beach, FL, June 15-18. Boulder: ASES.

Unpublished Thesis

- DeKay, Mark (1992). **Daylighting and Urban Agriculture Land Use Design Tools**, Master of Architecture Thesis, Department of Architecture, School of Architecture and Allied Arts, University of Oregon, Eugene, OR. Dissertation Abstracts On-line #AAG1349521

Exhibits (selected)

- 2013 **Mark DeKay (Sun, Wind & Light graphics)**, in *Thirty Two*, an exhibit by the faculty of The University of Tennessee, Knoxville, College of Architecture and Design, Ewing Gallery, University of Tennessee, Knoxville, Aug 1–29
- 2007 **Indian Architecture of the Open Envelope: Natural Cooling for a Hot Climate**, in *Space + Technology + Place*, and exhibited work by the College of Architecture and Design Faculty of the University of Tennessee, Ewing Gallery, University of Tennessee, Nov 11–Dec 15
- 2007 **A Vision for Future Development: The Beaver Creek Watershed Green Infrastructure Plan**, Nashville Civic Design Center, Nashville, TN, June 5–28
- 2007 **The Beaver Creek Green Infrastructure Plan**, Art & Architecture Building, UT Knoxville, March 26–April 13
- 2006 **Green Center: Environmental Planning for Downtown Chattanooga**, Art & Architecture Building, UT Knoxville, Spring

Reviews, Interviews, and Citations (selected)

- Pearson, Candace (2014). "Sun, Wind & Light" Adopts Net-Zero Focus, *Environmental Building News*, September, Volume 23, Number 9
- Mead, Philip (2014). **Book Review–Sun Wind and Light: Architectural Design Strategies (3rd Edition)**, *SBSE News* (Society of Building Science Educators), Summer 2104, p 4
- Villagomez, Erick (2104). **Book Review–Sun Wind and Light: Architectural Design Strategies (3rd Edition)**, *Spacing: Canadian Urbanism Uncovered*. March 11. <http://spacing.ca/national/2014/03/11/book-review-sun-wind-light-architectural-design-strategies-3rd-edition/>

- Schwartz, Michael (2013). **Book Review–Integral Sustainable Design: Transformative Perspectives**, *Integral Review*, February, 2013, Vol 9, No 1, p 106–109
- Soibelman, Lucio (2013). **Book Review–Integral Sustainable Design**, *Construction Management and Economics*, Vol 31, No 2, p 202–203
- Hamilton, Marilyn and Mark DeKay (2012). **Integral City eLab 2012, Co-Creating the Future of the Human Hive**, [audio interview]. September 13. mp3 available. <http://www.integralcitycollective.com>
- Lisa Norton (2012). **Integral Sustainable Design** [book review], *Metropolis*, January 13
- Peter Buchanan (2012). **Integral Plaudits: Widening Sustainability, Integral Sustainable Design**, by Mark DeKay, Earthscan, 2011 [book review], *Architectural Review*, 29 February, part of "The Big Rethink" series
- Aran Baker (2012). **Integral Sustainable Design: Transformative Perspectives**, by Mark DeKay: **Book Review**, *Ecotecture: The Journal of Ecological Design*, April 28
- Wilber, Ken and Mark DeKay (2011). **The Principles of Integral Sustainable Design** [audio interview], 2 hours, published on Integral Life web site, <http://integrallife.com/node/111286>. mp3 available
- Hamilton, Marilyn (2011). **Integral Sustainable Design: Transformative Perspectives**, by Mark DeKay, [book review]. *Journal of Integral Theory and Practice*, 6(3), p 137-149
- Neely, Jack (2007). **Laboratory Knoxville: In and Out of the Classroom Urban Design Scholars Reconsider our Hometown**, *Metropulse*, 17:4, April 9. Focuses on work of three faculty in UT downtown studio.
- Gould, Kira and Lance Hosey (2006). **Ecology and Design: Ecological Literacy in Architecture Education, 2006 Report and Proposal**, The AIA Committee on the Environment. Washington: American Institute of Architects, pp. 54-59 (feature on UT curriculum), plus numerous citations. Award was with Prof. Ted Shelton, for a graduate design studio and a seminar in architectural technology.
- Rylander, Mark (2005). **COTE ELAE (Ecological Literacy in Architectural Education) Award Winners**, *SBSE News*, Winter. Society of Building Science Educators, Summer
- Malin, Nadav (2005). **AIA Recognizes Ecoliteracy in Architecture Schools**, *Environmental Building News*, 14:7, July
- Fedeski, Mike (2002). **Book Review: "Sun, Wind And Light: Architectural Design Strategies**, The Centre for Education in the Built Environment, Welsh School of Architecture
- Malin, Nadav (2002). **Book Review: Sun, Wind & Light, 2nd edition**, *Environmental Building News*, 11:4, April
- Voelcker, Adam (2001). **Book Review: Sun, Wind And Light: Architectural Design Strategies**, *The Architectural Review*, March, 3/1/2001
- Prigmore, Kathryn T. (2000). **The Other Studio Companion: Sun, Wind & Light, 2nd edition**, *SBSE News*, Winter, Society of Building science Educators
- Washington University (2000). **Faculty Are Conducting Fulbright Research in India and Nepal**, *Asia Extra*, supplement to the *Washington University Magazine* for readers throughout Asia
- AIA (1995). **On Honoring Teaching Excellence: the 1995 AIA National Education Honor Awards**, monograph, Washington American Institute of Architects, Feature on my graduate class "Environment and Buildings I" (energy issues and climatic design) at Washington Univ

Licensed Works

RedVector, Inc., 2006–present. **Online Professional Continuing Education Courses**, <http://www.redvector.com>.

- **Designing for Sun, Wind, & Light: Analysis Techniques** (5 hours)
- **Designing for Sun, Wind, & Light: Strategies for Building Groups** (3 hours)
- **Designing for Sun, Wind, & Light: Strategies for Buildings** (4 hours)
- **Designing for Sun, Wind, & Light: Strategies for Building Parts** (4 hours)
- **Designing for Sun, Wind, & Light: Strategies for Supplementing Passive Systems** (2 hours)

SEMINARS and WORKSHOPS (Organizer)

- 2018 **10 Workshops, Co-organized and co-leader, The Integral Research Approach**, Deakin University School of Architecture and Built Environment, Co-led with Susanne Bennett workshops with five faculty transdisciplinary research teams, March 13–22, 2018

- 2006 **Conference Co-organizer, Integral Sustainable Design**, a 3-day scholarly event, *Society of Building Science Educators (SBSE) Summer Meeting*, exploring the implications of integral theory for teaching sustainable design. Held at Colorado State University Pingree Park Mountain Campus, July 15-18, 2006.
- 2002 **Conference Program Co-organizer, Society of Building Science Educators Summer Workshop, Ecoliteracy in Design Education**, Nevada Sierras, June 2002
- 1994 **Conference Program Coordinator, SBSE Summer Curriculum Development Workshop: Education and Research for Sustainability**, for Society of Building Science Educators, Green Gulch Zen Center, Sausalito, CA, June 30 - July 3

Invited Lectures and Peer Presentations (selected)

- DeKay, Mark and Gail Brager (2019). **Workshop: Felt Form: Using Evidence to Design for Experience**, Society of Building Science Educators Summer Meeting, SBSE 2019, Frontiers: Teaching Building Science in the 21st Century, Lima, MT, July 22-25
- DeKay, Mark and Susanne Bennett (2019). **Lecture: Preaching to the Prerational: the politics of communicating climate change**, Society of Building Science Educators Summer Meeting, SBSE 2019, Frontiers: Teaching Building Science in the 21st Century, Lima, MT, July 22-25
- DeKay, Mark and Susanne Bennett (2018). **Lecture to Faculty: Designing Integral Research**, Deakin University School of Architecture and Built Environment, March 13, 2018
- DeKay, Mark and Susanne Bennett (2018). **Workshops: The Integral Research Approach**, Deakin University School of Architecture and Built Environment, ten workshops with five faculty transdisciplinary research teams, March 13-22, 2018
- DeKay, Mark and Susanne Bennett (2018). **Public Lecture, Solving the Climate Crisis by Design**, Deakin University School of Architecture and Built Environment, March 20, 2018
- DeKay, Mark and Susanne Bennett (2018). **Moderation and Presentation, Integral Design Futures Symposium**, Deakin University School of Architecture and Built Environment, March 23, 2018
- DeKay, Mark and Susanne Bennett (2017). **Keynote: The Good, the True and the Beautiful of Climate Change**, at conference: Spiritual and Integral Ecology Perspectives on Art, Place and Nature, Oct 21, Edinburgh International Centre for Spirituality and Peace, Edinburgh, Scotland
- Roetzel, Astrid (presenter) and Mark DeKay (2017). **An Integral Sustainable Design (ISD) Approach to Human Inhabitation of Architectural Spaces**, International Workshop on Smart Cities, Human Behavior and Sustainable Development: Opportunities and Challenges for Infrastructure Development, Sept. 27-30 2017, Beijing, China
- DeKay, Mark and Susanne Bennett (2016). **Keynote: Solving the Climate Crisis by Design**, lecture delivered for Sustainable Design Week, American University in Beirut, October
- DeKay, Mark and Susanne Bennett (2016). **Workshop: Pulchritude, Pattern and Performance**, 3-day student workshop for Sustainable Design Week, American University in Beirut, October
- DeKay, Mark (2016) **Keynote: Exploring New Terrains: The Next Design School**, Architectural Education Forum [AEF], Johannesburg, South Africa, September
- DeKay, Mark, Rajat Gupta, and Alfredo Fernandez-Gonzalez (2016). **Presentation and Panel Discussion: Carbon-Neutral Design. Is this the Future?**, in Connections to practices: PLEA and American Institute of Architects Pasadena & Foothills, CA, Los Angeles
- DeKay, Mark and Susanne Bennett (2015). **Workshop: Three-Minute Manifestos**, a participatory peer workshop, *Society of Building Science Educators (SBSE) Summer Meeting: Regions and Localities*, Highlands, NC, June 16-19
- DeKay, Mark (2014) **Public Lecture: Reversing Climate Change by Design**, *L J School of Architecture*, Ahmedabad, India, Dec 15
- DeKay, Mark (2014). **Pecha-Kucha: Reversing Climate Change by Design**, *University of Tennessee MicNite, talks by UT faculty*, March 13, Knoxville
- DeKay, Mark (2013). **Keynote: Ecological Thinking for Integral Design**, *Atmospheres 5/Ecology and Design*, Feb 7-9, Faculty of Architecture, University of Manitoba, Winnipeg
- DeKay, Mark and Susanne Bennett (2012). **A New Knowledge Structure for Net Zero Energy Design: the Bundle Game prototype**, peer teacher workshop, *Society of Building Science Educators (SBSE) Summer Meeting: The Next Generation*. McCall Field Campus, June 15-17, University of Idaho

- DeKay, Mark (2012). **Keynote: Integral Sustainable Design: Diversity Aligned**, *Sustainability Forum*, Philadelphia University, March
- DeKay, Mark (2011). **Presenter, Climatic Analysis and Design**, Architecture 2030 continuing education series, North Carolina AIA, Charlotte, NC.
- DeKay, Mark (2009). **Integral Sustainable Design**, *Focus the Nation*, Jan 31, 2009, UT local site, Knoxville, TN
- DeKay, Mark (2008). **Green Infrastructure**, *International Society of Arboriculturists Convention*, Mar 17, 2008, Knoxville
- DeKay, Mark (2007). **A Vision for Future Development: The Beaver Creek Watershed Green Infrastructure Plan**, Nashville Civic Design Center, Nashville, TN, June 21
- DeKay, Mark (2006). **Integral Sustainable Design**, Presentation and invited panelist, *Plain Talk on Quality Growth*, an East Tennessee Conference," March 30
- DeKay, Mark (2006). **Plenary: Integral Theory Basics for Sustainable Design, a framework for constructive post-modernism**, *SBSE Summer Meeting 2006: Integral Sustainable Design*, Colorado State University Pingree Park Mountain Campus, July 15-18, 2006
- DeKay, Mark (2006). **Plenary: Integral Theory for Sustainable Design: levels of complexity**, *SBSE Summer Meeting 2006: Integral Sustainable Design*, Colorado State University Pingree Park Mountain Campus, July 15-18, 2006
- DeKay, Mark (2005). **Integral Communication for the Beaver Creek Green Infrastructure Plan**, *Integral Ecology & Sustainability Conference*, sponsored by the Integral Institute, Nov. 8-13, 2004, Denver, CO

COMPLETED PROJECTS (selected)

- 2014 ***Sun, Wind, and Light: Architectural Design Strategies, 3rd edition***, with G. Z. Brown. New York: John Wiley and Sons. 870 pages. A four-year project with multiple funding sources
- 2012 ***A New Knowledge Structure for Designing Net-Zero Energy Buildings***, funded by AIA/Upjohn Initiative Award, collaborative with University of Oregon
- 2011 ***On-line Continuing Education Courses for Licensed Design Professionals***
Ecological Design Thinking: six perceptual shifts, 3 C. E. hrs.
- 2010 ***Integral Sustainable Design: Transformative Perspectives***, Earthscan Press, published 4/2011 (Book). The book is a major accomplishment resulting from 8 years of reflection, study, writing, and application in classes.
- 2010 ***UT Certificate in Sustainable Design and Green Building, Level 2 certificate launched***, an on-line continuing education program for licensed design Professionals. The Level 2 program was launched in March, 2010 with several optional topical C. E. credit packages. The full, 3-level program is 72 C. E. credits.
- 2009 ***UT Certificate in Sustainable Design and Green Building, Level 1 certificate launched***, an on-line continuing education program for licensed design Professionals. The Level 1 program was launched in March, 2009 with 25 required C. E. credits. The full, 3-level program is 72 C. E. credits.
- 2007 ***Mississippi Art Plaza: Climate and Site***, microclimate analysis consulting project, Jackson, MS
- 2006 ***Patterns of Green Infrastructure: Tools for Urban Design***, Boston Society of Architects Grant
- 2006 ***Beaver Creek Watershed Green Infrastructure Plan***, Knox County, TN, a multi-year project with a substantial public component to develop conservation and development strategies in a suburbanizing, high-growth area, 3 x 25 miles in area
- 2003 ***Green Urban Patterns: Evaluating Development Alternatives for Air Quality and Urban Cooling***, explored improving hot season microclimate by urban design in downtown Chattanooga
- 2002-04 ***Chattanooga Downtown Plan, Environmental Component. Chattanooga Downtown Plan Environmental Study***, a multi-year project. I was asked to make a study of how the Chattanooga Downtown Plan could become more environmentally sound.
- 2002 ***Climatic Design Resources, on-line information for architectural design***. This project purpose was to collect, organize, and interpret climate information for 23 representative U.S. cities and to make the results freely available through the "Climatic Design Resources" web site.

- 2002 ***Sun, Wind, & Light On-Line and Instructor Resources***
This project produced an added-value on-line resource web site for students, instructors, and architects, along with a CD for instructors who use the *Sun, Wind, & Light* text in teaching.
- 2001 ***Sun, Wind, and Light: architectural design strategies, 2nd edition*** (coauthor with G. Z. Brown)
Sun, Wind, and Light: is a book for designers who want to consider the form-generating potential of climatic forces in the earliest stages of the design process.

SERVICE

Institutional Service (selected, educational, UT Only)

- 2019-20 S/Arch Scholarship Committee
- 2016-18 Undergraduate Curriculum Committee
- 2015-15 Faculty Senate Alternate
- 2014-15 Undergraduate Admissions Committee
- 2014-16 Ad-hoc Technology Curriculum Committee
- 2013 Ad-hoc NAAB Accreditation Committee
- 2012-13 Director's Advisory Committee
- 2007-11 **Administration (50% FTE): Director of Graduate Studies (College)**
- 2007-11 **Administration (50% FTE): Chair, Architecture Graduate Programs**
- University Graduate Dean's Council, College representative; University Graduate Council, College representative; University Graduate Council Academic Policy Sub-committee member; Ad-hoc committee on the future of MUP degree
 - S/Arc Exhibit Curator, NAAB accreditation exhibit of graduate programs; Graduate Program Committee, Chair; Ad Hoc Sub-committee on Post-Professional Urban Design Program; Search Committee for two tenure-track positions; COAD Ad-hoc Faculty Facilitation Committee; Graduate Program Committee
 - COAD Graduate Studies Committee, Chair; Ad-Hoc 2010 Imperative Implementation Committee; College Curriculum Committee

Service to the Profession and Community (selected)

- 2019 **Article reviews**, *International Journal of Sustainability in Higher Education*
- 2019 **Tenure Review**, Washington University in St. Louis
- 2019 **Grant Proposal Review**, American University in Beirut
- 2019 **Paper reviews**, John Reynolds Sustainability Symposium: Education by Design
- 2019 **Tenure and Promotion Review**, University of Southern California
- 2018 **Scientific Committee PLEA 2018**, reviewed papers for international conference
- 2018 **Scientific Committee PLEA 2017**, reviewed papers for international conference
- 2018 **Grant Program Reviewer**, Integral Design Futures program, Deakin University, Australia
- 2017 **Research advising**, Deakin Univ., Geelong Australia
- 2017 **External Reviewer**, Collaborative Research Stimulus (CRS) grants, American University of Beirut (AUB)
- 2017 **Technical Committee PLEA 2017**, reviewed papers for international conference
- 2016-18 **External Examiner**, National University of Singapore, Master of Architecture [Design, Technology & Sustainability program], Singapore
- 2016-17 **Expert reviewer**, *Journal of Landscape and Urban Planning*
- 2016-17 **Expert reviewer**, *Energy Research and Social Science*
- 2016 **Visiting Scholar Faculty Host**, Dr. Sitan Zhu, Wuhan University, China

2015-2016	Visiting Greek Fulbright Artist Host , Pygmalion Karatzas, architect and photographer
2016	Promotion and Tenure External Reviewer , <ul style="list-style-type: none"> • Ecole Polytechnique Fédérale de Lausanne (EPFL) • Switzerland, University of Maryland • University of North Carolina, Charlotte • University of Massachusetts, Amherst
2016	Expert reviewer , research proposals, University of Cyprus
2012-present	Regular expert reviewer for <i>Building Research and Information</i>
2016	Scholarship Review Committee , National Conference on Beginning Design, San Luis Obispo, CA
2016	Technical Review Committee , International PLEA 2016 (Passive and Low Energy Architecture) conference, Los Angeles, CA
2015	External Proposal Reviewer , Research Center at Prince Sultan University, Saudi Arabia
2013-2014	Climate Reality Leadership Corps , Trained August 2013
2012	Promotion and Tenure Review , University of Utah
2014	Technical Review Committee , International PLEA 2014 (Passive and Low Energy Architecture) conference, Ahmedabad India
2008-present	Editor, UT Certificate in Sustainable Design and Green Building , online continuing education courses, in partnership with RedVector.com

TEACHING

Recent Courses

Mini-term (May) 2019

- **Arch 491 Foreign Study —Greece (Architecture and Landscape Photography in Greece: Capturing the Human Experience in Place)**, 3 cr, 10 students, co-taught with Pygmalion Karatzas, Greek architectural photographer.

Spring 2019

- **Arch 364 Performative Design I (Passive Systems)**, 58 students, cotaught with Prof. Bill Miller, Dept. of Mechanical Engineering
- **Arch 365 Performative Design I (Active Systems)**, 57 students, cotaught with Prof. Bill Miller, Dept. of Mechanical Engineering

Fall 2018

- **Arch 471 Integration Design Studio**, a net-zero Tesla store and service center
- **Arch 442/452 The Feeling of Living Buildings**, exploring design schemas, content from book in progress

Spring 2018

- **Arch 364 Performative Design I (Passive Systems)**, 55 students, cotaught with Prof. Bill Miller, Dept. of Mechanical Engineering
- **Arch 365 Performative Design I (Active Systems)**, 55 students, cotaught with Prof. Bill Miller, Dept. of Mechanical Engineering

Fall 2017

- **On Faculty Development Leave**, no teaching

Fall 2016

- **Arch 234 Climatic and Daylight Design**, 58 st, co-taught with Prof. Katherine Ambroziak
- **Arch 496/586 Advanced Architectural Design Studio: Sustainable Design**, low-income housing as infill

Spring 2017

- **Arch 452 Pulchritude, Pattern & Performance**, experimental research seminar to test generating experiential design strategies for sustainable design and expanding design knowledge frameworks

Grant History (selected)

DATE	PROJECT	GRANTOR / CONTRACT	AMOUNT
2017-18	An Integral Sustainable Design Approach to Human Inhabitation of Architectural Spaces, with team	Deakin Univeristy, Geelon Australia	\$18,000 AUD
2009-2018	Continuing Education Program in Sustainable Design and Green Building	UT contract with RedVector.com industry partner. Royalties from sales.	ongoing, > \$100K
2014	Developing and Disseminating Indices for Building Energy and Carbon Balance	College of Architecture and Design Faculty Development Awards	\$1500
2014	Learning Design Developmentally, Levels and Lines in Beginning Architecture, with H. Goeritz	College of Architecture and Design Faculty Development Awards	\$1250
2012	Bundle-Up! Game for learning net-zero energy design strategies	College of Architecture and Design Faculty Development Awards	\$1500
2011	A New Knowledge Structure for Net-Zero Energy Design, with G. Z. Brown, Univ. of Oregon	Upjohn Initiative	\$25,000
2010	Sun, Wind & Light: architectural design strategies, 3rd edition (book)	Humanities Initiative Book Subvention	\$3,000
2010	Integral Sustainable Design: transformative Perspectives (book)	Humanities Initiative Book Subvention	\$3,000
2010	Sun, Wind & Light: architectural design strategies, 3rd edition (book)	Provost's Faculty Development Award for Research	\$2,000
2010	Integral Sustainable Design: transformative Perspectives (book)	College of Architecture and Design Faculty Development Awards	\$3,500
2010	Sun, Wind & Light: architectural design strategies, 3rd edition, illustrations and product/book design & layouts	Author (DeKay) contract with John Wiley & Sons	\$10,000
2007	Mississippi Art Plaza: Climate and Site, microclimate analysis project, Jackson, MS	Bemis Architects	\$5,000
2006	Patterns for Green Infrastructure, tools for urban design, with Tracy Moir-McClean	Boston Society of Architects	\$10,000
2005-2007	Setting Design Priorities: A Climatic Design Method and Computing Tool (SWL Apps Manual)	1. Provost's Professional Development 2. Research Awards/UT CoAD	\$7,500
2005-2006	Beaver Creek Green Infrastructure Plan, Co-PI with Tracy Moir-McClean	Beaver Creek Task Force, Knox Land & Water Conservancy.	\$41,000
2004	Developing an Integral Method for Open Space Planning using the Beaver Creek Watershed	UT's SARIF Summer Graduate Research Assistantship Competition	\$3,000
2004	Integrated Methods for Green Infrastructure Planning (BC Watershed Green Infra project)	UT's Chancellor's Award to Pursue External Funding	\$6,000
2004-6	Navigating Design Knowledge, instructional modules to support ecological design in architecture classes (SWL Apps Manual)	UT Innovative Technology Center, Teaching With Technology Program	\$15,000
2004	The Bioclimatic Dwelling, instructional modules to support ecological design in architecture classes.	UT Innovative Technology Center, Teaching With Technology Program	\$15,000
2003	Green Urban Pattens: Evaluating Development Alternatives for Air Quality and Urban Cooling	Provost's Professional Development and Research Awards	\$1,000
2003	Maps to Design Knowledge: the Sun, Wind, & Light Applications Manual	1. College Development Award (Reagan) 2. UT Small Grant 3. Graham foundation grant	\$18,200

M A R K D e K A Y R A P r o f e s s o r

2002-2003	Chattanooga Downtown Plan Environmental Study, phase 1 + 2	City of Chattanooga	\$22,000
2002	Chattanooga Downtown Plan Environmental Study, phase 1	City of Chattanooga	\$12,000
2001	Sun, Wind, & Light on-Line: instructor and user resources	UT College of Arch + Design, Reagan Faculty Development Award	\$4,000