



# MARK DeKAY RA Professor

- 6/08- / **Chair, Architecture Graduate Program, (school of arch admin)**  
6/0 -6/08 **Interim Chair, Architecture Graduate Program, (school of arch admin)**  
/0 - /02 **Assistant Professor**  
/00- 2/00 **Fulbright Scholar**, Center for Environmental Planning and Technology, Ahmedabad, India  
8/ - 2/00 **Assistant Professor**, School of Architecture, Washington University, Saint Louis, Missouri  
8/ 2-6/ **Assistant Professor**, Department of Architecture, College of Architecture and Urban Studies, Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg, Virginia.  
6/ 0-6/ 2 **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)

- 8 -8 **Architectural Designer/ Intern Architect** , David Sellers & Company, Architects, Warren, Vermont  
86-8 **Intern Architect**, William Maclay, Architects and Planners, Warren, Vermont  
8 -86 **Intern Architect**, E. Ean McNaughton & Associates, Architects, Planners, Exhibit Designers, New Orleans, Louisiana

## Related Construction Experience

- 8 -8 **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](http://greenvisionstudio.org)
- **InForm** (consulting, lectures and workshops) [greenvisionstudio.org/in\\_form](http://greenvisionstudio.org/in_form)
- **Academia.edu** (publications) [utk.academia.edu/MarkDeKay](http://utk.academia.edu/MarkDeKay)
- **Univ. of Tennessee School of Arch** ~~9.5.9 (ch0 9.5.9 (sbu.Sye9B2h3 >Scati)1.0 (on)1.8s) )TJETEMC G0 (on)1.8s) )TJETEMC G0 (~~

### 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, 508 pp. (primarily a photo-essay) that includes 400 images of buildings and 27,000 pages of NOAA's 1969 OET (ed 'workbook' to accompany 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

**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, Siófok, 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, Siófok, 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, Siófok, 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 (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**

- 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***

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

2006 Conference Co-organizer, **Integral Sustainable Design**, a 3-day scholarly event, *Society of Building Science Educators (SBSE) Summer Meeting*,

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

DeKay, Mark (2012). **Keynote: Integral Sustainable Design: Diversity Aligned**, *Sustainability Forum*, Philadelphia University, March

DeKay, Mark (20 ). **Presenter, Climatic Analysis and Design**, 20 0 , , , \* | =

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



# MARK DeKAY RA Professor

- 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,

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- 2015-2016 **Visiting Greek Fulbright Artist Host**, Pygmalion Karatzas, architect and photographer
- 2016 **Promotion and Tenure External Reviewer**,  
• 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 *Building Research and Information*
- 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**,   
- 2014 **Technical Review Committee**, International PLEA 2014 (Passive and Low Energy Architecture) conference, Ahmedabad India
- 2008  **Editor**, UT Certificate in Sustainable Design and Green Building,      
   

TEACHING

Recent Courses

Mini-term (May) 2019

- Arch 491 Foreign Study —Greece (Architecture and Landscape Photography in Greece: Capturing the Human Experience in Place)

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

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	

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			