

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 (Option I, research-oriented). **Thesis: Daylighting and Community Gardening Land Use Design Tools.** Course work and research focused on energy efficient building, passive solar heating and cooling, environmental issues, landscape analysis, and urban design

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.

1984 **Bachelor of Architecture,**

School of Architecture, **Tulane University**, New Orleans, Louisiana. **Thesis: Public Aquarium,** New Orleans, LA. Upper level studios focused on passive energy technology integration and structures



Professional Registration and Professional Societies

- **Registered Architect**, State of Vermont, #1907, since 1992
- **Society of Building Science Educators**
- **American Solar Energy Society**
- **Fellow, Institute of Green Professionals**
- **American Society of Heating, Refrigeration and Air-conditioning Engineers (full)**

Honors and Awards

- 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.
- 1991-92 **Graduate Research Fellowship**, Center for Housing Innovation, Dept. of Architecture, Univ. of Oregon, three terms
- 1991 **Frederick Charles Baker Scholarship in Architectural Lighting**, Dept. of Architecture, Univ. of Oregon, for research into the impacts of daylighting access in urban areas on land use and density (grant)
- 1991 **Graduate Teaching Fellowship**, Dept. of Architecture, Univ. of Oregon, Winter and Spring term Environmental Control Systems courses
- 1984 **Thesis Commendation**, School of Architecture, Tulane Univ.

Academic Experience

- 6/08-present **Director of Graduate Studies, (college admin)**
College of Architecture and Design, University of Tennessee, Knoxville, Tennessee
- 6/07-6/08 **Interim Director of Graduate Studies, (college admin)**
College of Architecture and Design, University of Tennessee, Knoxville, Tennessee
- 6/08-present **Chair, Architecture Graduate Program, (school of Arch admin)**
School of Architecture, CoAD, University of Tennessee, Knoxville, Tennessee
- 6/07-6/08 **Interim Chair, Architecture Graduate Program, (school of Arch admin)**
School of Architecture, CoAD, University of Tennessee, Knoxville, Tennessee

- 6/07-present **Appointed to faculty, Graduate Program in Landscape Architecture**
- 8/02-present **Associate Professor, tenured**
College of Architecture and Design, University of Tennessee, Knoxville, Tennessee
 Teaching courses in building energy efficiency, climatic-responsive passive energy design, ecological design, technical integration, and design studio
- 1/01-7/02 **Assistant Professor**
College of Architecture and Design, University of Tennessee, Knoxville, Tennessee
 Teaching courses in environmental systems, ecological design, technical integration, and design studio
- 7/00-12/00 **Fulbright Scholar**
Center for Environmental Planning and Technology, Ahmedabad, India
 Focused on low-energy climatic design of institutional buildings without air-conditioning.
- 8/94-12/00 **Assistant Professor**
School of Architecture, Washington University, Saint Louis, Missouri
 Teaching required courses in energy-efficient design, environmental systems and ecological issues, design studio, thesis preparation, and advanced seminars in design + energy
- 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.
 Teaching building environmental control systems, third year undergraduate architectural design studio, and advanced seminars in energy and environmental issues
- 6/90-6/92 **Research Assistant**
Center for Housing Innovation, School of Architecture and Allied Arts,
University of Oregon, Eugene, Oregon
 Energy-Efficient Industrialized Housing Research Program. Writing and editing research reports, whole building energy computer simulation, design studies, and artificial sky modification and calibration
- 3/90-9/91 **Adjunct Instructor, design studio and workshops**
School of Architecture and Allied Arts, University of Oregon, Eugene, Oregon
 Special career discovery summer program, "Summer Architecture Academy," for landscape, interiors, and architecture. Taught studio and workshops at introductory level. Taught second year undergraduate design studio focusing design process, spatial ordering, lighting and acoustics.

Professional Experience (selected)

- 1987-89 **Architectural Designer/ Intern Architect**
David Sellers & Company, Architects, Warren, Vermont
 Job captain on several projects, including a resort inn renovation of 28,000 s.f. Project architect (with David Sellers) on three houses. Supervised other employees. Energy analysis.
- 1986-87 **Intern Architect**
William Maclay, Architects and Planners, Warren, Vermont
 Working drawings for \$4.5 million hotel, master planning for holistic health institute campus, heavy timber industrial workshop; conducted numerous code and environmental regulatory reviews, preliminary design of a residence, schematic design of a planned neighborhood.
- 1985-86 **Intern Architect,**
E. Eean McNaughton & Associates, Architects, Planners, Exhibit Designers,
 New Orleans, Louisiana
 Entry level position. Prepared working drawings for nature and science center addition. Design team on high school. Job captain on exhibit planning of historical museum. Also responsible for code reviews, promotional materials, and library.

- 6-9/82 **Architectural Photographer's Assistant**
Architectural View, architectural photographers, New Orleans, Louisiana
 Photo documentation of New Orleans historic warehouse district
- 6-9/80 **Architectural Draftsman**
H. Herschberg & Associates, AIA, architects, New Orleans, Louisiana

Related Construction Experience

- 1985 **D. H. Holmes Store Renovations and Retail Display, New Orleans, LA.** Construction supervision with F. J. Forstall Co.
- 1984-85 **Assistant Estimator/Project Manager**
F. J . Forstall, Co., Inc., general contractors, New Orleans, Louisiana
 Estimated bids, purchased materials, expedited, managed and coordinated crews. Inspected construction for large office and retail renovation of historic structures.

Professional Development

- Workshop** **How to Recruit Graduate Students: Getting the Results You Want**, Feb 27-28, 2008. Atlanta, GA
- Workshop** UT Graduate School's **Graduate Director's Workshop, Fall 2008, 2009**
- Workshop** **Landmark Forum**, Dec. 12-14, 16, 2008, Landmark Education, Atlanta
- Workshop** **The Landmark Advanced Course**, Mar. 27-29, 2009, Landmark Education, Atlanta
- Workshop** **Excellence- in the Zone**, weekly 10-session seminar, Spring 2009, Landmark Education, Atlanta
- Certification** **Yoga Teacher Training**, Kripalu method, Knoxville Acupuncture & Yoga Center, Prasad R. Hutter, instructor.

SCHOLARLY WORK

Scholarly Work in Progress

- Book: **Sun, Wind, & Light, 3rd edition**, co-authored with G. Z. Brown, Univ. of Oregon. Contract signed. Manuscript deadline: September 2011. New York: John Wiley & Sons.
- **University of Tennessee/RedVector Certificate in Sustainable Design and Green Building**, an on-line continuing education and professional development program, branded by UT, **edited by UT professors Mark DeKay and Dick Kelso**. Certificate launched Spring, 2009 and growing rapidly. I have enrolled scholars from around the country, editing and helping them to develop their courses.
- Journal Article: **Thinking Architecture Ecologically, six perceptual shifts**, an article exploring how designers must change perception and thinking to create a living ecosystem-based architecture. In draft.
- Journal Article: **Foundations For A Developmental Design Curriculum, with special attention to Graduate Professional Architecture Programs**. In draft.
- Digital resource. **Bioclimatic Dwelling Design: instructional modules to support ecological design in architecture classes**. With Prof. Gary Coates, Kansas State Univ.
- Digital resource. **Sun, Wind & Light Applications Manual**

Books/Chapters

- DeKay, Mark, 2011. **Integral Sustainable Design, transformative perspectives**. approx. 525 pp., +300 illustrations. in press, manuscript complete and delivered to publisher, publication due 1/2011, London: Eathscan Press. A new theoretical book that uses Integral Theory to expand the idea of sustainable design beyond (yet including) the technological view--to include the perspectives of systems, cultures, and experiences at four levels of human values.

Books/Chapters (cont.)

- 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 co-author of the 2nd edition, taking over the work from G. Z. Brown, author of the 1st edition. I was responsible for 95% of all aspects of this work, 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. Now a standard for sustainable design courses.
- DeKay, Mark, 2004. *Teachings From Babu Kuti*, in Dziuban, Emily and Kristin Robertson, eds. (2004). *Migrants and Stowaways: an Anthology of Journey's*. 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, 2009. "Daylighting and Urban Form, design and planning for daylight access," *Journal of Architecture and Planning Research*. Under review: revisions have been submitted.
- 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 Micheal 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 (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.

Complete Papers Published in Peer-Reviewed Conference Proceedings (selected)

- 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, Renewable Energy, Key to Climate Recovery*, 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.
- Brown, G. Z., R. Berg, R. Kellett, B. Muller, D. Peting, M. DeKay, and J. Rose, 1992. **"Design and Technology for Energy Efficiency in Housing -2030."** in Santos, A. N. and M. S. Ubbelohde, eds., *Making Environments: Technology and Design: Proceedings of the 10th Annual ACSA Technical Conference*, San Diego, California. Washington: Assoc. of Collegiate Schools of Architecture.
- Kellett, R., M. DeKay, B. Muller, and D. Peting, 1992. **"Design and Technology for Energy Efficiency in a Multi-family Concrete Panel House for a Hot-Arid Climate -2030."** 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.
- Kellett, R., M. DeKay, B. Muller, D. Peting, and G. Z. Brown, 1992. **"Performance Specifications for the Design and Manufacture of Energy Efficient Housing in the 21st Century,"** Center for Housing Innovation, Univ. of Oregon. *1992 American Society of Civil Engineers Specialty Conference: Housing America in the 21st Century*, June, Orlando, Florida.

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

- 2007 **Indian Architecture of the Open Envelope: Natural Cooling for a Hot Climate**, in *Space + Technology + Place*, an exhibit of work by the College of Architecture and Design Faculty of the University of Tennessee, Ewing Gallery, University of Tennessee, Nov 11–Dec 15, 2007.
- 2007 **A Vision for Future Development: The Beaver Creek Watershed Green Infrastructure Plan**, Nashville Civic Design Center, Nashville, TN, June 5–28, 2007.
- 2007 **The Beaver Creek Green Infrastructure Plan**, Art & Architecture Building, UT Knoxville, March 26 – April 13, 2007.
- 2006 **Green Center: Environmental Planning for Downtown Chattanooga**, Art & Architecture Building, UT Knoxville, Spring, 2006.
- 1997 **Drawing on the Site: an Ongoing Dialogue, exhibited at Site as Context: Art and Architecture Faculty Projects**, Washington University Gallery of Art, September 5-19. A collaborative project with art professor Ron Fondaw exploring the Washington University Campus as an environment for art, and engaging the public in graphic and written conversations about the relationship of ideas, art, campus planning, and architecture in the university setting.

Citations and Reviews (selected)

- Neely, Jack, 2007. "Laboratory Knoxville: In and Out of the Classroom Urban Design Scholars Reconsider our Hometown," *Metropole*, 17:4, April 9. Focus 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 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. <http://cebe.cf.ac.uk/resources/books/brown.html>, 1/15/2002.
- 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.
- Ann Nicholson, 2000. "India-bound DeKay Awarded Fulbright Grant," *Record*, 7/13. Washington University in St. Louis.
- 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)

SCHOLARLY WORK

Research Reports Submitted to Sponsors (selected)

- DeKay, Mark, Tracy Moir-McClean, et al. (2006). *Beaver Creek Watershed Green Infrastructure Plan*. 85 pp. (11 x 17).
- DeKay, Mark, Tracy Moir-McClean, with Richard Rothman (2003). *GreenCenter: Planning for Environmental Quality in Chattanooga, a report to the Chattanooga Downtown Planning and Design Center*. 200 pp.
- DeKay, Mark, David Meyers, and Doyle Cozadd, 1998-99. "Teaching Architecture + Energy Web Site," Curriculum dissemination site for *Energy Scheming*, sponsored by Washington University and the Fund for the Improvement of Post-Secondary Education, U.S. Dept. of Education. URL: <http://www.ecodesignresources.net>
- Berg, R., G. Z. Brown, M. DeKay, R. Kellett, B. Muller, D. Peting, 1992. "Systems and Technologies for a Multifamily Concrete Panel House in a Hot-Arid Climate," Task 2.1 Design for Energy Efficiency, Performance Specifications, Energy Efficient Industrialized Housing Program, Center for Housing Innovation, Univ. of Oregon, May, U. S. Department of Energy.
- Kellett, R., R. Berg, A. Paz, G. Z. Brown, 1991 (research team member). "Progress Report, Design for Energy Efficiency," Energy Efficient Industrialized Housing Program, Center for Housing Innovation, Univ. of Oregon, March, U. S. Department of Energy.
- Kellett, R., M. DeKay, P. Gay, B. J. McGinn, G. Z. Brown, G. Hubbard, M. Meacham, G. Skalangya, C. Wilson, and M. Mullens, 1990. "Problem Statements for the 21st Century House," Energy Efficient Industrialized Housing Program, Center for Housing Innovation, Univ. of Oregon, October, U. S. Department of Energy.
- 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.

SEMINARS and WORKSHOPS (Organizer)

- 2006 **Conference Co-Organizer** "SBSE Summer Meeting: **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, 2009. "Integral Sustainable Design," *Focus the Nation*, Jan 31, 2009, UT local site, Knoxville, TN
- DeKay, Mark, 2008. "Integral Sustainable Design," *International Society of Arboriculturists Convention*, Mar 17, 2008, Knoxville, *Green Infrastructure*.
- 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. "Integral Theory Basics for Sustainable Design, a framework for constructive post-modernism," Plenary presentation, *SBSE Summer Meeting 2006: Integral Sustainable Design*, Colorado State University Pingree Park Mountain Campus, July 15-18, 2006.
- DeKay, Mark, 2006. "Integral Theory for Sustainable Design: levels of complexity," Plenary presentation. *SBSE Summer Meeting 2006: Integral Sustainable Design*, Colorado State University Pingree Park Mountain Campus, July 15-18, 2006.

- DeKay, Mark and Mary Guzowski (2006). "**A Model for Integral Sustainable Design Explored through Daylighting**," *National Passive Solar Conference*, American Solar Energy Society, "Renewable Energy, Key to Climate Recovery," Denver, CO, July 7-13, 2006. Boulder: ASES.
- 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.
- DeKay, Mark, and Tracy Moir-McClean, 2004. "**Green Center: Planning for Environmental Quality in Downtown Chattanooga.**" *7th Annual Southeast Watershed Roundtable*. Oct. 27-29, 2004, Nashville, TN.
- DeKay, Mark, 2002. "**Gray City, Green City,**" April, 2002, Invited lecture to a group of downtown development stakeholders, Downtown Planning and Design Studio, Chattanooga.
- DeKay, Mark, 2001. Public Lecture, "**The Architecture of Climate.**" *UT College of Architecture and Design Lecture Series*.
- DeKay, Mark, 2001. "**Teaching With Sun, Wind & Light**" Presentation and workshop for *Society of Building Science Educators Summer Conference*, Redfish Lake , ID, June 9-12.
- DeKay, Mark, 2000. Public Lecture, "**The Architecture of Climate,**" public lecture, *Center for Environmental Planning and Technology (CEPT) Lecture Series*, Ahmedabad, India.
- DeKay, Mark, 2000. Public Lecture, "**Thinking Architecture Ecologically: Six Perceptual Shifts,**" public lecture, *Center for Environmental Planning and Technology (CEPT) Lecture Series*, Ahmedabad, India.
- Brown, G. Z. , Paul Clark, Mark DeKay, and Lance Lavine, 1999. "**Measuring Teaching Effectiveness,**" Presentation to *Society of Building Science Educators Summer Conference*, Tadoussac, Quebec, Canada.
- Brown, G. Z. , Paul Clark, Mark DeKay, and Lance Lavine, 1998. "**Teaching Architecture + Energy: Energy Scheming in the Studio and Classroom,**" Presentation to *Society of Building Science Educators Summer Conference*, Taos, NM.
- DeKay, Mark, 1997. **Review Panel** for integrated projects, Dept. of Engineering and Public Policy, Carnegie Mellon University.

COMPLETED PROJECTS

- 2010 ***Integral Sustainable Design: Transformative Perspectives***, Earthscan Press, 1/2011 (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 lunched 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 lunched 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.
- 2004 ***Chattanooga GreenCenter Exhibit***
Produce a graphic traveling exhibit of the *Chattanooga Downtown Plan Environmental Study*. .
- 2003 ***Green Urban Patterns: Evaluating Development Alternatives for Air Quality and Urban Cooling***
Explored improving hot season microclimate by urban design in downtown Chattanooga.
- 2002-03 ***Chattanooga Downtown Plan, Environmental Component. Chattanooga Downtown Plan Environmental Study, phase 1***
A multi-year project. I was asked to make a study of how the Chattanooga Downtown Plan could become more environmentally sound.
- 2003-04 ***Chattanooga Downtown Plan Environmental Study, phase 2***

- I continued developing maps, studies, and proposals for the downtown plan.
- 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*** (co-author 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.
- 2000 ***Architecture and Energy: Forming a Network for Course Material Development, Evaluation, and Dissemination***
 A three-year project that sought to improve architecture students' and practicing professionals' understanding of how to design energy-efficient buildings by developing course materials to support the existing computerized design tool, *Energy Scheming*, by evaluating student learning using these course materials, and by disseminating the course materials to architecture schools.
- 1994 ***A Review of Design Tools and Strategies for Ecological Urban Design***

Grant & Contract History

DATE	PROJECT	GRANTOR / CONTRACT	AMOUNT
2010	Integral Sustainable Design: transformative Perspectives (book)	Author contract with Earthscan, Ltd.	% of book sales
2010	Sun, Wind & Light: architectural design strategies, 3rd edition, manuscript and electronic component	Author contract (with G. Z. Brown) with John Wiley & Sons	% of book sales
2010	Sun, Wind & Light: architectural design strategies, 3rd edition, illustrations and product/book design & layouts	Author (DeKay) contract with John Wiley & Sons	\$10,000
2008-09	Contract for partnership, online continuing education Certificate in Sustainable Design and Green Building for licensed design professionals. Co-managed with Richard Kelso	Contract between UT and RedVector.com	% of course sales to UT COAD
2008-10	On-line Continuing Education Courses for Design Professionals 1. Intro to Integral Sustainable Design Theory 2. Levels of Complexity in Sustainable Design 3. Designing Relationships to Nature 4. Ecological Design Thinking	Author contract with RedVector.com	% of course sales to author
2007	Mississippi Art Plaza: Climate and Site, microclimate analysis project, Jackson, MS	Commissioned by Bemis Architects	\$5000
2006	Patterns for Green Infrastructure, tools for urban design, with Tracy Moir-McClean	Boston Society of Architects	\$10,000
2006-2010	Online Professional Continuing Education Courses, from Sun, Wind & Light 1. Designing for SW&L: Analysis Tech (5 hrs) 2. Designing for SW&L : Strategies for Building Groups (3 hrs) 3. Designing for SW&L: Strategies for Bldgs (4 hrs) 4. Designing for SW&L: Strat for Bldg Parts (4 hrs) 5. Designing for SW&L: Strategies for Supplementing Passive Systems (2 hrs)	Licensed derivative works: Publisher contract with RedVector.com	% of course sales, split with publisher (Wiley)

DATE	PROJECT	GRANTOR	AMOUNT
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	\$7500
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	\$3000
2004	Integrated Methods for Green Infrastructure Planning (BC Watershed Green Infra project)	UT's Chancellor's Award to Pursue External Funding	\$6000
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
2004-2007	Building at the Edge: An Exhibit of Architectural Photos on In-Between Space from A Fulbright to India	1. UT Exhibit, Performance, and Publication Expenses Fund 2. UT Development	\$2000
2004	Chattanooga GreenCenter Exhibit	UT EPPE fund	\$1500
2004	GIS software, and equipment.	SARIF Equipment and Infrastructure Fund	\$29,000
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 Patterns: Evaluating Development Alternatives for Air Quality and Urban Cooling	Provost's Professional Development and Research Awards	\$1000
2003	Maps to Design Knowledge: the Sun, Wind, & Light Applications Manual	1. College Development Award (Reagan) 2. UT Small Grant 3. Graham foundation grant	\$4000 \$5100 <u>\$9100</u> \$18200
2003	Chattanooga Downtown Plan Environmental Study, phase 2	City of Chattanooga	\$9,999
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
2001	Maps to Design Knowledge: SWL applications manual	Graham Foundation for Advanced Studies in the Fine Arts	\$9,000
2001	Sun, Wind, & Light on-Line: SWL applications manual	UT Provost's Professional Development and Research Award	\$2,000
2000-01	Climatic Design Resources: information for architectural design	Evelyn and Harold Hay Fund/Renewable Energy Institute, Cal Poly Foundation	\$18,275
1998-1999	Sun, Wind, & Light: architectural design strategies, 2nd edition	John Wiley & Sons	\$7,200
1998-1999	Sun, Wind, & Light: architectural design strategies, 2nd edition	Washington University School of Architecture, Graduate Research Assistant Grants	\$4,000
1999	Sun, Wind, & Light: architectural design strategies	Graham Foundation for Advanced Studies in the Fine Arts	\$5,000
1997-2000	Architecture and Energy: forming a network for course material development, evaluation and dissemination	U. S. Dept. of Education, Fund for the Improvement of Postsecondary Education (subcontract from Univ. of Oregon)	\$45,000
1993	A Review of Design Tools and Strategies for Ecological Urban Design	Virginia Tech College of Architecture and Urban Studies Creative Match Grant	\$1500

PROFESSIONAL WORK

Professional Projects (built works with design responsibility)

- 1989 *Diamond Residence, Richmond, MA.* Project architect with David Sellers. An exploration in design/build using tree columns cut from site. Lived on construction site for two months. Construction began from framing model and freehand plans.
- 1989 *Pittman Residence, Nantucket Island, MA.* Project architect with David Sellers. Vacation house in a historic district.
- 1988 *Wolfboro Inn Renovation and Addition, Wolfboro, NH.* Job captain with Sellers & Co. (des. develop. - constr.). Large addition to hotel on Lake Winnepesaki.

Professional Projects (built projects with documents and construction responsibility)

- 1987 *Inn of the Six Mountains, Killington, VT.* Job captain with William. Maclay, architects (des. develop. - wk. dwgs.). A 104 room hotel at Killington ski resort. Won praise from state officials for its environmental responsibility.
- 1987 *Gesundheit Institute Workshop, Droop, WV,* Job captain with William. Maclay, architects (wk. dwgs. - constr.). Three story heavy timber workshop.
- 1986 *Louisiana Nature and Science Center, Phase II, New Orleans, LA.* Working drawings production with Eean McNaughton and Assoc.

Planning Work

- 1987 *Gesundheit Institute Master Plan.* Design team with William. Maclay, architects (prelim. des - des. develop.). Master plan of rural campus for a holistic health community. Clients were committed to ecologically sound development.
- 1986 *Institute for Social Ecology Master Plan, Rochester, VT.* Team member with William. Maclay, architects for master planning of rural campus. Clients were committed to ecologically responsible development.
- 1985 *T. T. Wentworth Florida State Museum Exhibits Master Plan, Pensacola, FL.* Job captain with Eean McNaughton and Assoc. Permanent exhibit on W. Florida history.

Un-built Projects (selected)

- 1994 *Leber Residence, Richland, Washington.* An environmental and passive energy demonstration home in the Washington high desert, employing passive downdraft evaporative cooling and passive solar heating
- 1989 *Knuth Residence, Sharon, VT.* Project architect with David Sellers. A nontoxic residence for a chemically sensitive M.D. Owner died before construction.
- 1989 *Gesundheit Institute Hospital, Droop, WV.* Job captain with Sellers and Co. (prelim. des.) On hold for funding. A health facility for a holistic health community on a rural campus.
- 1989 *Cathedral of St. John the Divine, South Transept Completion, New York City, NY.* Design team member with Sellers and Co.
- 1989 *Graff Residence and Chamber Hall, Sonoma Valley, CA.* Job captain with Sellers and Co. (prelim. des. - des. dev.). Waiting for permits. A multiuse tower including a three story performance hall and pipe organ for a winery.

Historic Building Documentation Work

- 1986 *Cabildo and Louisiana State Museum Buildings, New Orleans, LA.* Documented details of two 18th century public buildings on Jackson Square for restoration project (Eean McNaughton and Assoc).
- 1983 *New Orleans Warehouse District Photographic Survey, New Orleans, LA.* Survey team member with Architectural View, including shooting, processing, and editing photomontages.

SERVICE

Institutional Service (selected, UT Only)

- 2007-10 **Administration (50%): Director of Graduate Studies (College)**
- 2007-10 **Administration (50%): Chair, Architecture Graduate Programs up to May 2009**
 University Graduate Dean's Council, College representative
 University Graduate Council, College representative
 University Graduate Council Academic Policy Sub-committee member
 S/Arc Exhibit Curator, NAAB accreditation exhibit of graduate programs
 S/Arc Graduate Program Committee, Chair
 COAD Graduate Studies Committee, Chair
 S/Arc Tenured Faculty Committee
 COAD Ad-hoc Committee on Research Center
 CAOD Library & Archives Committee
 CAOD Ad-Hoc College Research Committee
 COAD Ad-Hoc 2010 Imperative Implementation Committee
 ID Program, Interior Design Search Committee
 S/Arc Ad Hoc Sub-committee on Post-Professional Urban Design Program
 COAD College Curriculum Committee
 University Ad-hoc Committee on Research Centers
 University Ad-hoc committee on the future of MUP degree
 COAD Dean's Advisory Committee
 S/Arc Search Committee for two tenure-track positions
 COAD Ad-hoc Faculty Facilitation Committee
 S/Arc Graduate Program Committee

Service to the Profession (selected)

- 2006 **Conference Organizer** "SBSE Summer Meeting: **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. I co-chaired the program with Mary Guzowski (U of Minn.), facilitated half the meeting, and gave two plenary presentations on the theme.
- 2001-02 **Conference Program Co-Coordinator**, *Society of Building Science Educators Summer Workshop, "Ecoliteracy in Design Education*," Nevada Sierras, June 2002.
- 1999 **Technical Review Committee**, *American Solar Energy Society (ASES) Passive Conference*.
- 1998-99 **Board of Advisors**, national advisor to the *Ecological Design Education Network (EDEN)*, an internship program for design students, run by the Ecological Design Institute.
- 1998 **Session Moderator**, *Passive Cooling, American Solar Energy Society (ASES) Conference*, Albuquerque, NM, June.
- 1998 **Session Moderator**, *Vital Signs Curriculum Project Workshop*, Berkeley, CA.
- 1994 **Conference Program Coordinator**, *SBSE Summer Curriculum Development Workshop: Education and Research for Sustainability*, for Society of Building Science Educators, Green Gulch Zen Center, CA, June 30 - July 3.

1992 Local Expert Panel for AIA "Building Connections" teleconference series on environmentally conscious design, October.

Service to the Community (selected)

- 2004-6 **Beaver Creek Green Infrastructure Plan.** Most of personal project time donated as public service, free of charge. >1000 of hours.
- 2003-4 **Chattanooga Downtown Plan, Environmental Component.** All personal project time donated as public service, free of charge. >1000 of hours.
- 1998-99 **Board of Advisors,** Green Center, a nonprofit organization based in University City, MO, dedicated to outdoor environmental education and the creative arts.
- 1998 **Public Lecture** to Sustainable St. Louis, lecture and led a public discussion at UMSL, for the citizens group "Sustainable St. Louis," on the topic of "The Ecological City."
- 1998 **Public Lecture,** "Photovoltaic Architecture" Unitarian Church of St. Louis.
- 1997 **Colloquium Lecture,** "The Ecological City," Dept. of Engineering and Public Policy, Carnegie Mellon University.
- 1997 **Review Panel** for integrated projects, Dept. of Engineering and Public Policy, Carnegie Mellon University.
- 1990-92 **Founded Du-ma' Cooperative, Inc.,** a resident-owned housing cooperative, operating two large properties in Eugene, Oregon. Established to provide low cost community housing and ecological life-styles within an urban area.