

**Rob Fleming**, Architect and Sustainable Designer, LEED® AP  
 1030 Rock Creek Drive, Wyncote, PA 19095 | 215.990.8350

## **Academic Employment**

---

### **School of Architecture, Philadelphia University**

- Program Director, Master of Science in Sustainable Design	2007 - Present
- Associate Professor, Architecture Program	2003 - Present
- Assistant Professor, Architecture Program	1997 - 2003
- Visiting Assistant Professor, Architecture Program	1995 - 1997
- Adjunct Professor	1993 - 1994

### Courses Taught

• <b>Thesis in Sustainable Design I</b> (Graduate)	2009 - Present
• <b>Sustainable Design Studio</b> (Graduate)	2008 - Present
• <b>Sustainable Design Methodologies</b> (Graduate)	2007 - Present
• <b>Design X for Architecture</b> (Solar Decathlon Project)	2007
• <b>Design V for Architecture</b> (Focus on sustainability)	1997 - 2008
• <b>Experimental Materials</b> (Co-taught with materials engineer)	2006
• <b>Design VII for Architecture</b> (Fourth year digital studio)	1999 - 2000
• <b>Visualization I: Modeling</b> (New course developed)	1995 - 2000
• <b>Visualization III</b> (New course developed)	1997 - 2000
• <b>Visualization: Multimedia</b> (New course developed)	1997 - 2000
• <b>Design VI for Architecture</b> (Third year studio)	1996
• <b>Design III for Architecture</b> (Second year studio)	1995 - 1996
• <b>Design IV for Architecture</b> (Second year studio)	1995 - 1996

### Additional Course/Program Development

• <b>Master of Science in Sustainable Design</b>	2005 - Present
• <b>Bachelor of Science in Digital Design</b>	2000
• <b>Masters of Science in Digital Design</b>	2000

### Student Projects/Awards

• DVGBC Sustainable Design – David Cremer (gold medal)	2007
• IES Lighting Design Award – Bryan Giroux	2007
• ACSA Design with Brick Competition, Faculty Liaison	2007
• ACSA Design with Brick Dan Termini, Ben Motyl and Brent Miller, 2 <sup>nd</sup> place,	2007
• Faculty Liaison: Design Coalition of Minority Designers	2003 - 2006
• Thesis Advisor: Architecture & Interior Design	1996 - Present
• Dan Termini, Honorable Mention DVGBC Student Design Competition	2005
• Karen Blanchard, Architecture, Thesis prize	1998
• Student work selected for the Vitteta Design Education Competition:	1996

**The Catholic University of America**, Instructor 1995

**Temple University**, Instructor 1994

## Major Research Projects and Grants

---

### **Pennsylvania Green Growth Partnership (PAGGP), 2006 – Present**

Co-Founder and Co-Director. PAGGP is a broad coalition of Pennsylvania universities pursuing research into sustainable materials and technologies in the context of economic development. Partners include Temple University, Villanova University, Delaware Valley Green Building Council, Penn State, Pittsburgh University, Carnegie Mellon University and the Green Building Alliance.

*Total funding 3.5 million dollars, 36 months, Pennsylvania Department of Community & Economic Development*

### **Consortium for Sustainable Design and Research (CSDR), 2003 – 2006**

Co-Founder and Co-Director. CSDR is an alliance of Southeastern Pennsylvania Universities pursuing research into sustainable materials, technologies and sustainable design principles in the context of economic development. Partners include Temple University, Villanova University, Delaware Valley Green Building Council, and the Ben Franklin Technology Partners. *Total funding 1.5 million dollars, 2003 - 2006, Pennsylvania Department of Community & Economic Development*

### **Engineering and Design Institute (EDI), Philadelphia University, 2000 - Present**

Co-Founder and Co-Director. EDI is an Interdisciplinary, collaborative research environment located in the Manayunk section of Philadelphia. An annex to Philadelphia University, EDI pursues research into sustainable materials, technologies and sustainable design.

*Total funding 1.25 million dollars, 2000 - 2002, Pennsylvania Department of Community & Economic Development*

### *Other Grants*

- Fleming, Rob, Pastore, Chris, Frosten, Susan, Fryer, Robert, Messinger, Alex: *Luminous Textile Ceiling Systems*, National Textile Center, Funding 75,000 dollars, 2007 – 08 (not funded)
- Fleming, Rob: *Fort Washington Office Park Redesign*, Participatory Design Process, subcontract to Temple University Ambler, 2006 - Present
- Advanced Energy Modeling Seminars, Sustainable Development Fund, 2006
- Fleming, Rob, *Green Advantage Training Program*, PA Department of Environmental Protection, 2006 – Present, Total funding 50,000 dollars
- Messinger, Alex, Fleming, Rob, George, Brian, Cundell, Diana, *Textile Based Breathing Wall Systems*, National Textile Center, Investigator 2005 – Present, Total funding 750,000 dollars - **patent pending 2009**
- Rusinko, Cathy, Fleming, Rob, Pastore, Chris, Pierce, John: *Economic Competitiveness of Sustainable Carpets*, National Textile Center, 2002 – 2004, total funding 750,000 dollars
- Twardowski, Tom, Pastore, Chris, Fleming, Rob, *Exolation: Low cost exterior insulation system for exposed walls of City row homes*, DOE/EPA/City of Philadelphia, Investigator. Wall system, 2001 – 2003, Total funding 150,000 dollars, **patent received 2009**
- Messinger, Alex, Fleming, Rob, and Pastore, Chris: National Textile Center, *Properties of Architectural Fabric Structures*, 2001 – 2003, Total funding 750,000 dollars
- Fleming, Rob: Sustainable Development Fund, Sustainable Design Resource Center, 2003 – 2005, Total funding 17,000 dollars
- Fleming, Rob, Pastore, Chris: Sustainable Development Fund, Visualization of LEED Rating Buildings via Energy Modeling, 2001 – 2003, Total funding 25,000 dollars

## **Economic Development Projects**

---

- **Kimberton Village Green Development**, Kimberton, PA  
Integrated design charrette facilitation, 2007 – 2008
- **Landmark Building Systems**, Pottstown, PA  
Pilot program to increase competitiveness of Pennsylvania's factory built architecture industry by introducing sustainable construction techniques, technologies and practices.  
2007 - Present
- **Tacitus**, Philadelphia, PA  
New digital convergence center, Environmental Visualization, 2006 – Present
- **Andropogon Associates**, Philadelphia, PA, Fabric Structure Design, 2005
- **Moulton Builders**, Lansdale, PA, Sustainable renovation of old factory, 2005
- **Converse-Winkler Architects**, Bala Cynwood, PA  
Norristown redevelopment, 2005 – Present
- **Tellus Building Systems**, Philadelphia, PA  
New construction system evaluation, testing and design, 2004 – Present
- **Adams Bickel Construction**, Collegeville, PA, Site Analysis, 2004
- **Maisey's Farm**, Chester County, Pennsylvania  
Visualization of new sustainability education center, Chester County, PA, 2004 – 2005
- **Solar Roofing Systems, Inc.**, Philadelphia, PA, Integrated PV roofing system, Philadelphia, 2004
- **Aerzen USA**, Chester County Pennsylvania  
Charette facilitation and environmental visualization for new headquarters building in Chester County, PA, 2004 – 2006  
- 42,000 sq. ft. light manufacturing and office building: LEED Gold projected, geo thermal, raised floor air distribution, daylighting, energy modeling, rain gardens, indigenous meadows, Providing ongoing green design advice
- **Re: Vision Architecture**, Philadelphia, PA  
Chester County Conservation District Headquarters: Sustainable Design Assistance, 2003 - Renovations to historic farm house: Passive solar design, Photovoltaic array, rain gardens, submerged wetland
- **Queen Village Development**, Philadelphia, PA, Visualization of sustainable housing development, 2001
- **Friday Architects**, Philadelphia, PA  
Energy modeling and sustainable design assistance, 2001 - Northern Liberties Community Center, Green Advocate, Energy Modeling, 2003 - 24,000 sq. ft. Community Center: Double skin wall design, day lighting, green roof, Optimization of design via energy 10 modeling

## Professional Employment

---

**Rob Fleming, Architect and Sustainable Designer, Philadelphia PA, 2000 – Present**

### **Selected Professional Sustainable Design Trainings**

- L2 Architecture, 2008; IEI Design & Kass & Associates, 2007; Ark Creatives, 2007, Francis Cauffman Architects, 2007; WS Cumby & Sons Construction Managers, 2007; Hillier Architecture, 2007, PZA Architects, 2006; Metcalfe Architects, 2006; Sheward Architects, 2005; Allison Schwartz, Pennsylvania State Senator, 1999

### **Integrated Design and Charrette Facilitation Experience**

- YMCA at Snipes Farm, Lower Bucks County, Pennsylvania, **Sustainable Design Charrette Team Leader, 2007**
  - Led a team of 10 in developing schematic design options for a LEED Gold YMCA project
- Potomac Wildlife Conservation Area, **Sustainable Design Charrette Team Leader, 2006**
  - Led a team of 10 in the schematic design of a sustainable overnight camp project, Hard Bargain Farm, Maryland
- Energy Coordinating Agency, **Sustainable Design Charrette Team Leader, 2006**
  - Co-Leader of an interdisciplinary team of architects, clients, and consultants in the design of a their warehouse in North Philadelphia
- Barkan Residence, **Sustainable Design Charrette Participant, 2005**
  - 8,000 sq. ft. LEED for Homes Pilot Silver (projected) renovation residential project on Spring Garden Street in Philadelphia
- Mercy Neighborhood Ministries, **Sustainable Design Charrette Team Leader, 2005**
  - 30,000 sq. ft. LEED Silver (projected) renovation project for day care and adult care services, Optimization of room locations and functions in appropriate areas of the building in relationship to sun locations; proposed green roof
- Carver High School for Engineering and Science, **Sustainable Charrette Team Leader, 2005**
  - 40,000 renovation and addition for a LEED rated high school, Led one of four teams in developing schematic designs that incorporate sustainable strategies and technologies
- Churchville Nature Center, **Sustainable Charrette Team Participant, 2004**
  - Renovation and additions to nature center: Low impact design strategies to protect natural site, reallocation of existing functions to increase display and exhibit space and improve circulation
- Friends Center Corporation, **Charrette Team Leader, November 2004**
  - 24,000 sq. ft. LEED silver renovation for office space, Space planning for sustainability; green roof, geothermal; on site water treatment system
- Jackie O'Neil Residence: **Charrette Team Participant, 2004**
  - Assisted in the design of sustainable house in Chester County: Cistern water collection, daylighting, building orientation, sustainable materials, first LEED Gold for Homes in the US.
- Walden School Renovations and Additions, **Charrette Team Leader, 2004**
  - Led charrette design team exploring various site design options to accommodate bus/car drop off, playing fields and building orientation towards solar access and breezes

### **Design Projects**

- Blake-Howard House: **Sustainable Design**, 2005 - Present
  - Renovation and addition of a suburban house near Jenkintown for sustainability
- Miguel's Restaurant, **Sustainable Design**, 2005 - Present
  - Sustainable Design of a new fast food restaurant prototype in Las Cruces, New Mexico,
- Peace Valley Nature Center, **Co-designer with Re:Vision Architecture**, 2003
  - Renovations and additions to nature center: Passive Solar design, Daylighting strategies, Photovoltaic array

### **Curriculum Design**

- Wilson Technical Community College, **Curriculum Design**, 2006 - Present
  - Currently designing 16 hour training course on sustainability for construction workers
- Delaware Valley Green Building Council, **Curriculum Design**, 2005 – Present
  - Design and development of the Green Advantage Training Program, a certification program in sustainable construction practices

### **ArchiGlyphics, Philadelphia, PA, 1996 – 2000**

*Co-founded (with Nica Waters), a small multidisciplinary design firm that specialized in graphic design and multimedia*

#### **Selected Projects:**

Spring Lecture Series Poster, *Philadelphia University*, 2001, 2002; E-Commerce web site design, *Bayshore Ford Car Dealership*, Wilmington, Delaware, 1999, *Uptown Theatre* Renovation and Additions, Philadelphia, PA, Architectural design and visualization, 1999, North Broad Street in Philadelphia, PA.; Philly Health Club and Dance Center, Philadelphia, PA, Interior design 2000, Providing schematic and design development services for new health spa. *Weights for Women*, West Chester, Pennsylvania, Interior design 1999 Provided schematic and design development services for new health spa. *The Enterprise Foundation*, Columbia, Maryland, Interactive CD-ROM design, 1998 Design and production of interactive, cross platform CD ROM that aids communities in developing their own strategic plans; Animation design, 1997 Designed and produced 2 interactive CD-ROMs with digital video to promote an e-magazine produced by The Enterprise Foundation. The video was shown at a networking conference in Washington, D.C. to an audience of 1,000 people. We subsequently received the commission to design packaging and graphics to distribute the video on CD-ROM and videotape; *Kelly-Maiello Architects*, Philadelphia, PA, Web Page Design, 1998, [www.kmarchitects.com](http://www.kmarchitects.com); *Francis Cauffman Foley Hoffmann Architects*, Philadelphia, PA, Web Page Design, 1998, [www.fcfh-did.com](http://www.fcfh-did.com)

### **Francis Cauffman Foley Hoffmann Architects, Philadelphia, PA, 1987 – 1994**

#### **Selected Projects:**

**Designer:** Lobby, surgical suite and emergency room renovations for Springfield Hospital in Springfield, Pennsylvania, 35,000 sq. ft. renovation and addition to The Oaks, senior citizen housing in Cheltenham, PA., Feasibility study and preliminary design schematics for a new 20,000 sq. ft. medical office building for Mediplex Rehab in Camden, N.J., Trauma center for Phoenixville Hospital in Phoenixville, PA., New entryways and clinics for Community Hospital in Chester, PA. **Staff Architect:** Responsible for construction documents and consultant coordination for The Oaks, senior citizen housing, Produced design development and construction drawings for a new 20,000 sq. ft. car rental facility for National Car Rental in Boston, MASS., Produced wall sections and details for a new chapel at St. Joseph's University in Philadelphia, PA. **Project Architect/Manager:** Primary client contact and project manager for numerous AT&T projects throughout the Pennsylvania and New Jersey region. Primary client contact, project manager and designer for The Sacred Heart Nursing Home in Philadelphia, PA.

## **Selected Lectures, Presentations, Symposia (2003 – Present)**

- Fleming, Rob, *Sustainability in Education*, Pennsylvania Department of Higher Education Conference, Pennsylvania State University, 2009
- Fleming, Rob, *Sustainable Construction*, D.C. Green Builders, Washington, D.C., 2009
- Fleming, Rob: Moderator, *Preparing for the Green Jobs of the Future*, Go Green Expo, Philadelphia, PA, 2009
- Fleming, Rob: *Sustainable Design Education Revolution*, GreenBuild 2008, Boston Massachusetts
- Fleming, Rob; *Greening your Business*, Philadelphia Chamber of Commerce, Philadelphia, PA
- Fleming, Rob; Frosten, Susan; Ellis, Gena; Kratzer, David; *Building the Green Economy*, AIA Design on the Delaware, Philadelphia, PA 2008
- Fleming, Rob, *Sustainable Design Basics*, Langan Civil Engineers, Philadelphia, PA 2008
- Fleming, Rob, *Sustainable Design Basics*, Uptown Development Corporation, Philadelphia, PA, 2008
- Fleming, Rob, *The Role of Green Facilities in Promoting Faculty Activity*, American Institute of Campus and University Planners, Swarthmore, PA, 2008
- Cathers and Associates, *Sustainable Design Training*, 2007
- Fleming, Rob: *Paradigms of Sustainable Education*, Keynote Address, Interior Design Education Council, Northeast Regional Meeting, Philadelphia, PA, 2007
- Fleming, Rob: "Energy Generation Through Conservation," Atlantic County Environmental Conference, Stockton State College, 2007
- Fleming, Rob, Weidle Joseph: "Green Construction," PENNBOC – Presentation to regional code and zoning officials, 2007
- Fleming, Rob: "Sustainable Design: "Promoting Philadelphia's Direction," AIA Committee on Design Symposium, Art Alliance, Philadelphia, PA, 2007
- Rob Fleming, "Dimensions of Sustainability," Delaware College of Art and Design, Visiting Scholar in Interior Design, Wilmington, Delaware, 2006
- Fleming, Rob, Phillips C. & Bockarie, A. Philadelphia University, "Sustainable Design Education," *The Architectural Research Centers Consortium (ARCC) and the European Association for Architectural Education*, (EAEE), Philadelphia PA, 2006
- Fleming, Rob, "The Future of Textiles and Sustainability," *TechTextil North America, Atlanta Georgia*, 2006
- Fleming, Rob, Weidle, Joe: "Green Building Construction Strategies": *Region on the Rise*, Philadelphia Chamber of Commerce, Philadelphia, 2006
- Fleming, Rob, Weidle, Joe, "Green Advantage Training Program." Ongoing since 2005 – 16 completed training programs leading to over 300 certified construction professionals
- Fleming, Rob: "LEED Overview," *Emerging Green Builders Conference*, DVGBC, Philadelphia, 2006
- Fleming, Rob, Kelly, Scott: "The Integrated Design Process and Sustainability," *AIA Design on the Delaware*, Philadelphia, PA, 2005
- Fleming, Rob: "Beyond Sustainability," Keynote Address, *Society of American Registered Architects*, Philadelphia, PA, 2005
- Fleming, Rob: "Transcendent Sustainability," *Bucks County AIA*, 2004
- Fleming, Rob: "Beyond Sustainability," Taliesin West, Scottsdale Arizona, 2004
- Fleming, Rob: "Symposium on Sustainability and Interior Design," *Delaware Valley Green Building Council, Cusano Center for the Environment*, Philadelphia, PA, 2003
- Fleming, Rob: "Transcendent Sustainability," Keynote Speaker, *Sustainable Action Project Conference*, Philadelphia, PA, 2003
- Fleming, Rob: "The Computer as a Design Tool," Taliesin North, Spring Green Wisconsin, 2003

## **Publications**

---

Fleming, Rob, Pastore, Chris: "*The Aesthetics of Green*," Proceedings, American Society of Collegiate Architects, National Conference, New Orleans, LA, 2003

Messinger, Alex; Fleming, Rob; Pastore, Chris; Wollner, Csilla: "*Search for a New Approach into the Investigation of Fabric Structures*," Proceedings 2002 ACSA National Conference, New Orleans, Louisiana

Pastore, Chris, Dunn, Matt, Fleming, Rob: "*Renewable Nonwoven Composites for a Sustainable Future*," Proceedings INTC 2001, Baltimore Maryland, 2001

Messinger, Alex; Fleming, Rob; Pastore, Chris; Wollner, Csilla: "*Understanding it all: A New Approach to Investigating Fabric Structures, Part 1*," Fabric Architecture Magazine, May/June 2002, pp. 10-17

Fleming, Rob: "*Survivor Studio @ Philadelphia University: Promoting sustainability in the design studio through collaborative game playing*," International Journal of Sustainability in Higher Education, Volume 3, Number 2, 2002, pp. 146 – 154

Fleming, Rob: "*Survivor Studio @ Philadelphia University: Promoting sustainability in the design studio through collaborative game playing*," Greening of the Campus 4: Moving to the Mainstream, Conference Proceedings, Ball State University, 2001

Fleming, Rob: "*New Green Building Studio at Philadelphia University*," The Philadelphia Architect, November 2001

Fleming, Rob, "*Satellite Images from the Ground-up and Other Ecological Aspects of Raster Imaging*," Heterotopolis: Immigration, Ethnicity and the American City, Proceedings of the 88<sup>th</sup> ACSA Annual Meeting, ACSA Press, Washington D.C., 2000

Fleming, Rob, "*Sustainable Architecture Courses at the Philadelphia College of Textiles and Science*," The Declaration: Association of University Leaders for a Sustainable Future, Volume 3, Number 1: March 1999

Fleming, Rob, "*The Role of Interactive Media within Sustainable Curriculum*" Constructing New Worlds: Proceedings of the 1998 ACSA International Conference ACSA Press, Washington, DC: 1998

## **Current or Unpublished Research**

---

Vortex House: Proposed design for summer retreat house exploring aspects of the poetics of sustainability and cosmologically related design

The Seeds of Sustainability:

An Interactive Guide to Sustainable Design for the Architect, Designer & Planner 1996 - present

## **Awards and Honors**

---

- Board of Directors Leadership in Green Building Award, Delaware Valley Green Building Council 2007
- Philadelphia Sustainability Award, Pennsylvania Environmental Council 2007
- Leadership in Green Building, Pennsylvania Resource Council 2005
- President's Award for Teaching Excellence, Philadelphia University 2004
- Graphic Design USA Annual Design Awards, Winner 2001  
*Best of year: 1,000 winners/10,000 applicants for*
- Heritage & Kingman Island Competition, *Third Prize* 1995
- A.I.A. Sustainable Community Solutions Competition 1993
- Innovations in Plywood Competition, participant 1992
- Beaux Arts Ball Competition, *Winner*, 1989
- Beaux Arts Ball Competition, *Winner* 1988
- Stewardson Memorial Competition, participant 1987

## **Registrations and Certifications**

---

- Green Advantage Certified (Commercial and Residential) 2006
- LEED® 2.0 Accredited Professional 2004
- Registered Architect, Pennsylvania 1992

## **Professional Organizations and Political Appointments**

---

- Board Member, Community Ventures, Philadelphia, PA 2009 - Present
- Sub-Committee on Contractor's Training, USGBC 2007
- Philadelphia International Airport Green Task Force 2007
- Montgomery County Green House Gas reduction Task Force 2007  
- Chair – Green Buildings Sub-Committee
- Delaware Valley Green Building Council 2001 - 2008  
- Founding Board Member
- University Leaders for a Sustainable Future 1999 - 2002
- A.I.A. News Letter writer/editor 1988 - 1994
- Architects, Designers, Planners for Social Responsibility 1997 – 1999  
- Served on board of directors
- Foundation for Architecture 1985-1992
- Community Design Collaborative 1995, 2006

## **Education**

---

### **Master's Degree in Architecture, 1996**

Virginia Polytechnic Institute and State University,  
Washington Alexandria Architecture Consortium, Alexandria, Virginia

**Thesis:** "The Seeds of Sustainability: An Interactive Guide to Sustainability for Architects, Designers and Planners"

#### **Activities**

Graduate Teaching Assistant (librarian); selected to represent the school as a panelist at a citywide forum on the "Visions of Home" exhibit at the National Building Museum, Washington, D.C.; student work exhibited at the National Building Museum, Washington, D.C., 1996; First recipient of the "Student Ombudsman Award" to the student who best raises the level of discourse at the school.

### **Bachelor's Degree in Architecture, 1987**

Temple University, Architecture Program, Philadelphia, PA

#### **Activities**

One of five students selected to participate in the 1987 John Stewardson Memorial Design Competition; Finalist: Thesis Prize