

**Annual Report 2010-2011**  
**School of Architecture + Design**

12 June 2011

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## Program Rankings

All programs within the School of Architecture + Design have again been highly ranked in a survey of design education in the United States, and, for the first time, **all four undergraduate programs in the School are ranked in the top 10 in their respective disciplines in the 2011 DesignIntelligence rankings.**

DesignIntelligence publishes the only national college rankings focused exclusively on design. Rankings are based on survey responses from 220 private practice firms and other organizations that hire architects, landscape architects, interior designers, or industrial designers. The survey also includes a "skills assessment" for each discipline. In addition, deans and chairs from 126 academic programs participated in a survey which is presented separately from the rankings.

For 2011, the Architecture Deans' Survey of "most admired" B.Arch. programs lists Virginia Tech #3 nationally, citing the program's "high admission standards, excellent facilities and innovative pedagogy." The undergraduate Architecture program is tied for #4 in the rankings of approx. 50 B.Arch. programs accredited by the National Architectural Accrediting Board (NAAB). The Architecture Skills Assessment ranking, which surveys both undergraduate and graduate programs, lists Virginia Tech #2 in Construction Methods and Materials, #4 in both Analysis and Planning and in Sustainable Design Practices and Principles, and #5 in Computer Applications and in Communication. The graduate Architecture program is ranked #12 among the approx. 100 NAAB-accredited graduate programs.

The undergraduate Landscape Architecture program is tied for #3 in the nation, and the graduate program is tied for #4. In the Landscape Architecture Skills Assessment, Virginia Tech is ranked #4 in the three categories of Design, Communication, and Computer Applications.

The undergraduate program in Interior Design is tied for #6 nationally, and the graduate program is tied for #9. In the Interior Design Skills Assessment rankings the program is tied for #1 in Computer Applications and tied for #3 in Communication.

The Industrial Design program is tied for #10 in the nation and, in the Industrial Design Skills Assessment, is tied for #3 in Computer Applications.

For further information regarding rankings, see the DesignIntelligence website at <http://www.di.net>.

### Summary of rankings of programs in the School of Architecture + Design

Architecture:  
Undergraduate #4  
Graduate #12

Landscape Architecture:  
Undergraduate #3  
Graduate #4

Industrial Design:  
Undergraduate #10

Interior Design:  
Undergraduate #6  
Graduate #9

## Teaching | Learning

### National and International Faculty Awards

**Robert Dunay**, T.A. Carter Professor of Architecture, and Director of the Center for Design Research, was awarded the 2010-2011 **ACSA Distinguished Professor Award** by the Association of Collegiate Schools of Architecture (ACSA). Professor Dunay was honored as an "outstanding individual who has sustained creative achievement in the advancement of architectural education through teaching, design, scholarship, research, and service."

**Jim Bassett**, Assistant Professor of Architecture, was awarded the 2010-2011 **ACSA/AIAS New Faculty Teaching Award**. Co-sponsored by the ACSA and the American Institute of Architecture Students (AIAS), this honor is bestowed on a faculty who has "demonstrated excellence in teaching performance during the formative years of their architectural teaching career."

DesignIntelligence recognized two School of Architecture + Design faculty members among their list of "**Most Admired Educators of 2010.**" **Robert Dunay**, Director of the Center for Design Research and the T. A. Carter Professor of Architecture, and **Ron Kemnitzer**, Professor and Chair of the Industrial Design Program, were among only 25 educators nationwide to receive this honor in 2010.

**Keith Zawistowski** and **Marie Zawistowski** – the School of Architecture + Design's first Professors of Practice – won the **2011 National Council of Architectural Registration Boards (NCARB) Grand Prize** for Creative Integration of Practice and Education in the Academy. The \$25,000 prize for their project "Designing Practice" was awarded for excellence in integrating practice and education. The project will be featured in the annual NCARB Prize publication. Keith and Marie will make a presentation about the project in June, 2011 at the NCARB Annual Meeting in Washington, DC.

The **Virginia Tech Solar Decathlon team** (led by School of Architecture + Design faculty members Robert Dunay, Joe Wheeler, Robert Schubert, and David "Chip" Clark) won a **National Council of Architectural Registration Boards (NCARB) Prize** for Creative Integration of Practice and Education in the Academy for "A Sustainable, Net Zero Energy Dwelling," one of five awards nationally (\$7500), Feb 2011.

The **Virginia Tech Solar Decathlon Team** (Robert Dunay, Joe Wheeler, Robert Schubert, and David Clark) also received a 2010 **CASE Bronze Award** from the Council for Advancement and Support of Education, Special Media Relations Programs and Projects category.

### Student Awards in International, National, and Regional Competitions

A **Landscape Architecture team** based at the Washington-Alexandria Center in the National Capital Region garnered first place in the **2010 Theme Park Challenge**, the first annual national **Historic American Landscapes Survey (HALS) competition**, sponsored by the National Trust for Historic Preservation. Entrants were asked to complete at least one short format history for a historic theme park landscape, documenting the landscapes of childhood. Associate Professor **Paul Kelsch** and three students from the Master of Landscape Architecture Program — **Nicholas Colombo** and **Luke Van Belleghem**, both of Arlington, Va., and **Seth Estep**, of Wise, Va. — chose to interpret the history of Glen Echo Park, Md., a National Park Service arts and culture venue, for their 2010 Theme Park Challenge submission. The team was awarded the top prize for their entry, "Topographies of Amusement: The Evolving Terrain of Glen Echo Park."

Virginia Tech architecture student **Christopher Morgan** won first place in an international competition, sponsored by the Royal Institute of British Architects (RIBA), to design the **Yéle Music Studio** in the Cité Soleil area of Port-au-Prince. The brief asked entrants to design a 1,000 square foot music studio that would contain recording and radio-production facilities, while also offering space for vocational training for at-risk youth in Cité Soleil, a poor and crime-ridden district.

**Jamie Ivey** (Interior Design) won first place in the 2011 **NEWH Sustainable Hospitality Design Competition** for her "Mélange Resort," influenced by the blend of Asian, Indian, African, French Creole, and European cultures on the island of Mauritius. Jamie's faculty advisor was Lisa Tucker.

## Student Awards in International, National, and Regional Competitions (cont'd)

**Katie Herber** (Interior Design) took home first place in the 2011 **Starnet Flooring Competition**, student category, for her design of an Alzheimer's Care Facility in the Appalachian Region. In the 2010 Starnet Flooring Competition, **Jamie Matthews** won the Student Prize and both **Rachel Erickson** and **Lindsey Richards** were also honored for their entries, which were completed as a part of the KSA sponsored studio.

**Molly Berman** (Interior Design) won a 2011 **Earth-Minded Award** for Hospitality, "Tomorrow Award" (student category), presented by *Hospitality Design* magazine and the American Society of Interior Designers (ASID), for her design of "Son Paysage," a resort whose name means "sound landscape" and is influenced by the relationship between music and architecture.

**Kala Letts** (Interior Design) was awarded **Honorable Mention** in the 2010 **American Society of Interior Designers (ASID) Student Design Competition**. Letts, from Culpeper, Va., submitted a design for the INova Regional Department of Alzheimer's and Dementia Center in Falls Church, Va.

**Jessie Oliver** (Interior Design) won first prize in the **Benjamin Moore Paint Color Competition**. The competition was open to design students in the United States and Canada, and there were a total of 141 entries. The first round involved a selection for the top ten by popular vote. The top ten were then reviewed by Benjamin Moore professionals, and three winners were chosen. As the first place winner, Jessie's design will receive a cash prize of \$10,000, and her design has been chosen to be built in the Benjamin Moore Headquarters showroom in Montvale, New Jersey.

**Oscar Salguero**, **James Connors**, and **Reid Schlegel** (all 3<sup>rd</sup>-year Industrial Design students) had their humanitarian footwear project selected as an **IDEA Student Award Finalist**. This is a very well-known, selective, and prestigious design award for both students and professionals.

**Liz Stokley**, **Ayan Bhandari**, **Zack Filbert** and **Kees Luyendijk** (Industrial Design) were finalists for the **iF Concept Award 2011** for their project to redesign the Washington, DC Metro car.

Industrial Design student **James Connors'** toy design was selected as a finalist in the Dutch company Present Time's '**Surprise Me**' design competition.

**Emily Rothrock** (5th-year, Landscape Arch.), **Nicholas Denney** (3rd-year Landscape Arch.), and **Jessica Martin** (MLA) won the **Freedom Park Design Competition** sponsored by Monday Properties, a real estate investment firm based in New York City and Arlington, Virginia.

**Trevor Curtis** (Landscape Arch.) was selected as the first place winner of the 3rd annual 2010 **DawnTown Miami Design competition** (<http://downtown.org/>).

**Alireza (Ali) Bozorgi**, a Ph.D. candidate in the Architecture and Design Research degree program, received this year's scholarship from the **Pension Real Estate Association** (PREA) for his research on assessment of risk and uncertainty for "green" building valuation. Recent winners of this prestigious and competitive award have come from the Harvard Graduate School of Design, Harvard Business School, MIT Sloan School of Management, University of Pennsylvania School of Design, University of Pennsylvania's Wharton School of Business, Stanford Graduate School of Business, and Columbia University Business School. Additionally, Ali received the 2010 American Council for an Energy Efficiency Economy (ACEEE) Student Scholarship which supports presenters for attending the 2010 ACEEE conference in Pacific Grove, CA. Seven winners were selected among 177 applicants.

The 2011 **Virginia Society AIA Prize Student Design Competition** was awarded to **Siim Tiisvelt**, of the Virginia Tech Washington-Alexandria Architecture Center (WAAC). **Garrett Reynolds** was selected as the Best of School for Virginia Tech, Blacksburg. An Honorable Mention went to **Gui Talarico** from Virginia Tech, WAAC. Jurors Timm Jamieson, FAIA, Michael Ashe, AIA, Joe Atkins, AIA, and Steven McCurdy of Norfolk Southern Railroad juried the competition for an Amtrak station in Clifton Forge, VA. The responsibility for writing the program brief for the competition rotates among the state's architecture schools, and for 2011 it was written by faculty members Dave Dugas, Bill Galloway, and Markus Breitschmid from Virginia Tech.

## University, College, and School Awards

**Gene Egger**, Nancy and Patrick Lathrop Professor Emeritus, received the College of Architecture and Urban Studies' 2011 **Career Achievement Award**.

**Lisa Tucker** (Interior Design) was awarded a **University Certificate of Teaching Excellence** for the College of Architecture and Urban Studies.

**Terry Clements** (Landscape Architecture) and **James Bassett** (Architecture) were awarded **Teaching Excellence Certificates** by the College of Architecture and Urban Studies.

The School of Architecture + Design **Studio Teaching Excellence Award** went to **Andrew Balster** (Architecture).

School of Architecture + Design **Lecture/Seminar Course Teaching Excellence Awards** went to both **Greg Tew** (Interior Design) and **Paul Kelsch** (Landscape Architecture).

The School of Architecture + Design **New Faculty Teaching Excellence Award** went to **Hilary Bryon** (Architecture).

**Jaan Holt**, professor of architecture and director of the Washington-Alexandria Architecture Center, National Capital Region, was named the **Patrick and Nancy Lathrop Professor of Architecture** by the Virginia Tech Board of Visitors.

Two Architecture graduate students, **Jonathan Grinham** (MS.Arch., 2010) and **Negar Kalantar Mehrjardi**, an Architecture Ph.D. candidate, were members of a team that was awarded the **2011 XCaliber Award** for excellence as a group involved in technology-assisted teaching. The team was recognized for their PARTeE project (Prototyping in Architectural Robotics for Technology-enriched Education) and will receive a commemorative plaque and cash award of \$1,500 on August 21, 2011 at an Awards Ceremony held at The Inn at Virginia Tech and Skelton Conference Center. Other members of the team were Dr. Ki-Hong Ku, an Assistant Professor in the Myers-Lawson School of Construction, and Spencer Lee, a Ph.D. candidate in the Department of Computer Science.

Architecture student **Jane Jennings**, of Roanoke, VA, was selected as the **Outstanding Graduating Senior** in the College of Architecture and Urban Studies for the 2010-2011 academic year. In May 2011, she graduated with a Bachelor of Architecture degree, Summa Cum Laude, in the top fifth percentile of the 2011 graduating senior class.

Interior Design student **Lindy Balls** was selected as the College of Architecture and Urban Studies **Outstanding Graduate Student Award**, Masters level.

Architecture student **Jonathan Foote** (Washington-Alexandria Architecture Center) was selected as the College of Architecture and Urban Studies **Outstanding Graduate Student Award**, doctoral level.

**Alireza Borhani Haghighi**, a graduate student in the M.Arch.2 program, received a 1st Place Award for his research poster, "Setting the Scene of Water in Persian Landscape," at the 27th **Graduate Student Assembly (GSA) Annual Research Symposium**.

## Off-Campus Educational Opportunities

The **2010 College of Architecture and Urban Studies Interdisciplinary Education Abroad Summer Program** occurred from May 18 through June 22, 2010, led by two A+D faculty members: Terry Clements and Wendy Jacobson. Sixteen students participated.

The **2010 ITDS/IDS Summer Travel Abroad Program** occurred from May 20 through June 10, 2010, led by Ron Kemnitzer and Greg Tew. Twenty-four students participated.

The **2010 Europe Study Abroad Fall Travel Program** was organized in three segments, directed by 8 faculty members: segment 1 (Berlin – Nuernberg - Munich – Bregenz - Vals - Basel – Ronchamp – Paris) was led by Profs. Heiner Schnoedt and Mario Cortes; segment 2 (Granada –

### Off-Campus Educational Opportunities (cont'd)

Alicante – Valencia – Barcelona – Nimes – Aix-en-Provence) was led by Profs. Sal Choudhury, William Galloway, and Rengin Holt; and segment 3 (Como – Verona - Venice - Florence - Siena - Rome) was led by Profs. Frank Weiner, Steve Thompson, and Patrick Doan. The semester-long program began on Sept. 1 and concluded on Nov. 10, 2010. Participants included 30 undergraduate and 2 graduate students.

The **Fall 2010 Europe Study Abroad Residency Program** at the Center for European Studies and Architecture (CESA) in Riva San Vitale, Switzerland, was led by Prof. Hunter Pittman. 16 students participated in the semester-long program, which included lecture classes, design studio, and travel segments.

The **Spring 2011 Europe Study Abroad Residency Program** at the Center for European Studies and Architecture (CESA) in Riva San Vitale, Switzerland, was led by Prof. Gene Egger. 15 students participated in the semester-long program, which included lecture classes, design studio, and travel segments.

The **Berlin Studio** was offered as an option for 3rd-year architecture students for the 2010-2011 academic year. Integrating academic education, professional practice, and cultural exchange, the year-long research studio with a one-semester abroad component in Berlin promoted a collaborative design process incorporating multiple points-of-view from a variety of academic discourses. The direct integration of foreign practices in the studio exposed students to new professional modes of operation and contemporary building methods in Europe and the U.S. Due to its position as a thriving metropolis and epicenter for emerging subcultures, Berlin offered opportunities to explore past, present and future tendencies in architecture and design. The studio, comprised of 19 students, was led by instructors Markus Bonauer and Tiffany Taraska.

**Exchange Programs:** During AY 2010-11, nine A+D students participated in bi-lateral and other exchange programs in Argentina, Denmark, Germany, Great Britain, India, Japan, and Switzerland.

The **Chicago Studio** was not offered for 2010-11 so that it could be reformulated. The Chicago Studio will be offered again in 2011-12 as a full-year program under the direction of Visiting Instructor Andrew Balster.

### Pre-Professional Educational Experiences

The professional **Extern Program** offers the opportunity for 4th-year undergraduate architecture students to receive 12 credits of academic credit while employed in an architectural practice for one semester. Six students participated in the program during the 2010-11 academic year. The Extern program is directed by Prof. Heiner Schnoedt.

**Inside Architecture + Design** is a week-long summer experience for high school students who are curious about the world of design. The School of Architecture + Design offered its tenth summer workshop for high school students, July 26 - 30, 2010. Professors Robert and Donna Dunay led a group of 75 high school students through an in-depth experience regarding architectural education, the world of design, and campus life. The quality of the program is validated by demand, as applications have significantly increased. This year, Inside Architecture + Design will be held from June 27 through July 1, 2011.

### Grants to Support Educational Mission

Albright, Kathryn. Virginia Tech Quality Enhancement Program **First Year Experience Grant**, \$20,700

Albright, Kathryn. Virginia Tech **Summer Sessions Grant**, \$4,000

## Discovery | Research

### International Design Research Awards

In June 2010, the Virginia Tech **LumenHAUS** was declared the winner of the **Solar Decathlon Europe**. Seventeen research universities from around the world gathered in Madrid, Spain to demonstrate their solar-powered houses to the public and to engage in nine days of strategic competition. In addition to winning first place overall, the LumenHAUS team placed first in the Architecture category. 2002 Pritzker Architecture Prize recipient Glenn Murcutt served as jury chair for the Architecture contest, judging the quality of the houses' architectural design, consistency, spatial adaptability, strategic bioclimatic application, and integration of technological systems. Speaking for the jury, Murcutt said, "the jury applauds the intelligence of the further development of Mies van der Rohe's Farnsworth House in the multi-layering of two long north and south facades that invites enjoyable variations in habitation and use, subtle adjustments of light, privacy, and aesthetic expression; this scheme was exemplary in its landscape design, its innovative spatial concepts that have been achieved through simple movement of specific furniture pieces." The LumenHAUS received other awards, including second place in the Communication and Social Awareness category, third in the Industrialization and Market Viability category, third in the Comfort Conditions category, and third in the Appliances and Functioning category. The LumenHAUS also received third place in Lighting Design.

### Professional Awards and Honors

Prof. **Robert Dunay** was inducted into the **College of Fellows of the American Institute of Architects** at the AIA National Convention, Miami, FL, June 2010.

The **Virginia Tech Solar Decathlon Team** (School of Architecture + Design faculty members Robert Dunay, Joe Wheeler, Robert Schubert, and graduate student Jonathan Grinham) were awarded the **Research Prize** by the Virginia Society of the American Institute of Architects in Richmond, VA, Nov 2010.

Interior Design Program visiting instructor **Matt Wagner** was a member of a team that won the 'Images That Provoke Award' for their entry re-thinking the future of Chicago entitled, "Reclaiming Nature's Metropolis - A Living Building Language," in the International Living Future Institute's **Living City Design Competition**. The award was presented in Vancouver, B.C. in April, 2011.

**Margarita McGrath** (with S. Oliver, noroof architects) received a Merit Award in the Renovation Category in the 2011 **Residential Architect Design Awards** for the Finger Apartment, renovation of a 540 square foot apartment in the East Village in New York City; 40 projects out of over 800 submissions were selected for awards; winning projects will appear in the May/June 2011 issue of *Residential Architect* magazine.

**Brad Whitney** received a **Certificate of Merit** from the *Journal of Interior Design*, March 2011.

**Paola Zellner-Bassett & James Bassett** received a 2010 **Award of Excellence** from the Blue Ridge Chapter of the American Institute of Architects for the Bee Global Studio and Gallery, Robbinsville, NC.

The **Virginia Tech Solar Decathlon Team** (School of Architecture + Design faculty members Robert Dunay, Joe Wheeler, Robert Schubert, and David Clark) received an **Award for Excellence** in Architecture from the Blue Ridge Chapter of the American Institute of Architects, Roanoke, VA, Aug 2010.

**Scott Poole**, Director of the School of Architecture + Design, received the **Honor Award for Distinguished Achievement** from the Blue Ridge Chapter of the American Institute of Architects, 2010.

**Larry Fenske** received a First Place Award in the **Design Craft Materials Identification Contest** (Professional) held at the 2011 Industrial Designers Society of America (IDSA) Southern District Conference, Austin, Texas.



## University, College, and School Awards

Associate Professor of Architecture Dr. **Markus Breitschmid** has been recognized by the Office of the Vice President for Research as Virginia Tech's **Scholar of the Week** for his scholarship on aesthetics and architecture.

The College of Architecture and Urban Studies **Certificate for Distinguished Scholarship Award** went to **Paul Emmons**.

The School of Architecture + Design **Excellence in Creative Achievement Awards** went to **Markus Breitschmid** and **Sal Choudhury**.

The School of Architecture + Design **Excellence in Scholarship Award** went to **Hilary Bryon**.

**Hilary Bryon**, **Lisa Tucker**, and **Joe Wheeler** received **Faculty Research Grants** in Fall 2010.

**Kathryn Albright**, **Markus Breitschmid**, and **Heiner Schnoedt** received **Faculty Research Grants** in Spring 2011.

## Design Research

Virginia Tech's efforts in competing in the **Solar Decathlon** – in 2002, 2005, and 2009, and the winning entry (LumenHAUS) in the Solar Decathlon Europe in 2010 – have led to a number of sub-projects and spinoff research endeavors, directed by School of Architecture + Design faculty members **Robert Dunay**, **Robert Schubert**, **Joseph Wheeler**, and **David “Chip” Clark**. The 2005 Solar Decathlon house, located at the Science Museum of Virginia in Richmond, has been extensively monitored as part of an ongoing research project to measure electrical production from the house's photovoltaic array, and this data is now being distributed via the world-wide-web so that K-12 school teachers may use the information for their lesson plans. The commercialization and mass-production of the **LumenHAUS** is currently being explored. Research is also continuing on the control system for the LumenHAUS's reconfigurable façade, known as the Eclipsis system, and on the laminated photovoltaic system used on the house. The success of the LumenHAUS at the Solar Decathlon Europe has led to Virginia Tech assuming a leadership role, in collaboration with 9 other international research universities, in organizing the “**House of the Future**” exhibition at the 2015 World's Fair in Milan, Italy, showcasing housing innovation and new technologies relating to energy, industrialization, and environmental controls.

**Fields Everywhere** ([www.fieldseverywhere.org](http://www.fieldseverywhere.org)) is a project aimed at unlocking fields, a powerful yet mostly invisible concept of physics, for middle schoolers. Virginia Tech, the Science Museum of Western Virginia, and the Paul Orselli Workshop are collaborating to develop a museum exhibition and a companion interactive website designed to allow middle school girls to explore the concept of fields, in an effort to engage them in science just at the point in their schooling where research shows they lose interest in studying science, technology, engineering, and math. The project uses narrative, parallel learning models, and immersion — methods proven to connect to girls. The team of advisors and consultants includes gender studies specialists and the Girl Scouts of America. The project team includes Virginia Tech faculty members **Mitzi Vernon**, Professor of Industrial Design, **Michael Ermann**, Associate Professor of Architecture, Ico Bukvic, Assistant Professor in Music Composition and Technology, Kathy Cennamo, Professor of Instructional Design and Technology, Steve Ellingson, Associate Professor of Electrical and Computer Engineering, Phyllis Newbill, Exec. Research Assistant, John Simonetti, Professor of Physics, and Tatsu Takeuchi, Associate Professor of Physics. A National Science Foundation (NSF) Informal Science Education (ISE) Grant submission (\$2 million) is pending. Several of the project team members from the School of Architecture + Design are also involved in a related project: Soundbarge ([www.soundbarge.org](http://www.soundbarge.org)).

**Voltaic Electric Scooter Project:** Three students from the fourth-year Industrial Design studio led by **Larry Fenske** were involved in a collaborative effort with architecture and electronic engineering students. Students investigated the system design for an electric scooter and a bus shelter/charging station. Co-Instructors: **Robert Dunay**, RA, AIA, IDSA and **Joseph Wheeler**, AIA.

The **Immersive 3D Visual Environment** project explores surface projection techniques on a 20 foot hemispherical dome located at the College's Research + Demonstration Facility.

## Design Research (cont'd)

**Vibration Testing and Analysis of Virginia Tech Campus Buildings:** Prof. **Mehdi Setareh** has conducted Vibration Testing and Analysis of the Infectious Disease Research Facility, the new Visitors and Undergraduate Admissions Center, and the Academic and Student Affairs Building

### Sponsored Research

In 2010-11, faculty members from the School of Architecture and Design authored grant proposals totaling \$2,614,425 and were awarded \$89,902 in new sponsored research funding. School of Architecture + Design faculty members were involved in the following sponsored research projects over the past year:

**National Science Foundation** – \$558,000; P.I.: **Setareh, Mehdi**, "Study of the Effects of Non-Structural Building Elements and Human-Structure Interaction on the Dynamic Behavior of Floors Subjected to Human Movements." The project is funded by the National Science Foundation, along with the Virginia Tech Research Division and industry support. This project was completed in December 2010.

**National Science Foundation** – \$499,833; P.I.: **Setareh, Mehdi**; "Integrating Web-Based Visualization with Structural Systems Understanding to Improve the Technical Education of Architects," funded by the Division of Undergraduate Education, National Science Foundation. This project involves the development of the Structure and Form Analysis System (SAFAS).

**National Science Foundation** — \$59,427 (Grant total: \$398,180); **Dorsa, Ed**, Co-PI, part of a 6 person team (2 Industrial Design faculty, 1 ECE faculty, 1 Business faculty, 1 ISE faculty and 1 Engineering Education faculty), "Building New Engineering Education Theory and Practice for Interdisciplinary Pervasive Computing Design," a grant from the Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) program, National Science Foundation (second year).

**National Science Foundation** — \$59,427 (Grant total: \$398,180); **Kemnitzner, Ron**, Co-PI, part of a 6 person team (2 Industrial Design faculty, 1 ECE faculty, 1 Business faculty, 1 ISE faculty and 1 Engineering Education faculty), "Building New Engineering Education Theory and Practice for Interdisciplinary Pervasive Computing Design," a grant from the Innovations in Engineering Education, Curriculum, and Infrastructure (IEECI) program, National Science Foundation (second year).

**Acoustical Society of America (ASA)** – \$3,500; P.I.: **Ermann, Michael**; Grant to write a booklet on the acoustics of multi-family housing, Nov 2008. Booklet completed, Nov 2010, and with the ASA pending publication.

**LiveRoof® Green Roof Systems** – (\$4,645; in-kind value from LiveRoof: \$3,845; in-kind value from GAF Materials Corporation: \$800) P.I.: **Grant, Elizabeth**; grant to support green roof runoff retention research at the Research and Demonstration Facility at Virginia Tech. GAF Materials Corporation donated TPO membrane waterproofing, which was installed by Acrylife, Inc. of Wytheville; Systems Construction, LLC of Blacksburg provided construction services gratis to erect the platforms along with a crew of architecture students in July 2010.

**National Park Service** – \$69,000.00; P.I.: **Katen, Brian** with **Patrick Miller** and **Mintai Kim**; grant to provide foundational documentation, inventory, analysis, and evaluation of character-defining features utilizing innovative digital mapping analysis associated with the mid-19<sup>th</sup> century historic landscape at the Bowman-Hite- Whitham Farm on the Cedar Creek Belle Grove National Historic Park Battlefield in the Shenandoah Valley.

**Urban Land Institute** – \$14,504.00; P.I.: **Miller, Patrick**; McNamara and ULI Fellowship

**Advance VT** – \$1,500; P.I.: **Renard, Helene**; Micro-Mentoring Grant for travel to interview design practitioners working with felt in Cumberland, VA, Portland, Oregon, and Seattle, WA, and student workshop with Kathleen Oliver of Scarlet Fleece.

### Sponsored Research (cont'd)

**VT ICTAS** – \$186,000 (over 2 years, 2009-10 and 2010-11); P.I.s: **Tew, Greg**, and **Tucker, Lisa** (Interior Design), with Dushan Boroyevich and Fred Lee (Electrical and Computer Engineering). “Sustainable Building Design Initiative.”

**Nuckolls Fund** – \$20,000 (over 4 years, 2008-2012); P.I.: **Tucker, Lisa** (Interior Design); Lesley Wheel Introductory Lighting Program Grant, awarded to create an introductory lighting program within the interior design program at Virginia Tech

**National Science Foundation** – \$494,818 (3 years: 2008-2011); P.I.s: **Vernon, Mitzi** and Cennamo, Katherine, **McGrath, Margarita** (Co-PI), and Brandt, Carol (Co-PI); Collaborative Research: Investigating and Refining the Studio Experience as a Method for Teaching Human Computer Interaction.

### Patents and Trademarks

Robert Dunay, David Clark, Nathan King, and Joseph Wheeler, “Modular Building System,” VTIP 09-157, #12/78,437, pending

Robert Dunay, Joseph Wheeler, Robert Schubert. Trademark: “LUMENHAUS” U.S. Service Mark Application Serial No. 77/808,430; Mark: LUMENHAUS, Int. Class: 42, Our Ref.: 092469-0114

Larry Fenske, “Adjustable Holder for Cleaning Implement Having Two Support Heads,” U. S. Utility Patent awarded February 15, 2011 – US 7,886,396 B2

Joseph Wheeler. “Projector Perch,” Development of a universal mechanized platform for projector leveling (<http://www.projectorperch.com/>), Patent #TBD

### Faculty Publications – Magazine Articles

Breitschmid, Markus. “El Repertorio Conceptual de Valerio Olgiati – Valerio Olgiati’s Ideational Inventory” in *El Croquis*, Enrique Marquez (ed.), Madrid: No. 155/2011, pp. 6 – 29 (Forthcoming in June 2011). Spanish translation by Paola Zellner-Bassett.

Dunay, Robert, “El hogar de la luz y la eficiencia energetica,” *Arquitectura y Construction*, pp. 128-132, #479, Centro informativode la Construcción, Barcelona, Oct. 2010

Dunay, Robert, “Hauser, die Energie produzieren,” *Architektur, Fachmagazin, Energie Effizient*, pp. 48-54, #07, Austria, Oct./Nov. 2010

Dunay, Robert, “LUMENHAUS – Quality of Life and Energy Awareness Integrated through Architecture,” *2A Architecture and Art*, No. 14, Dubai, UAE, Summer 2010 (*2A: Architecture and Art* is a quarterly publication with a readership of 10,000 targeted to those involved with architecture and art in the Persian Gulf region.)

Dunay, Robert, “Hauserkampf Unter Spanischer Sonne.” *Nach Dem Abfluss*, pp. 6-9, NR. 36, Sept. 2010

Grant, E., “Green roofs in the cradle of civilization.” *2A: Architecture and Art*, No. 14, Summer 2010.

### Book Chapters

Albright, Kathryn. “Critical Discussion: Developing Self & Peer Assessment in Creative Disciplines,” to be included in *Assessment in the Arts* edited by Ally Ostrowski

Breitschmid, Markus, “The Architect as ‘the Molder of the Sensibilities of the General Public’. Bruno Taut and the *Architekturprogramm*” in *Painting Mirrors. Essays on the Artist as Observer and Social Critic*. Shawn Bingham (ed.) Lanham: Rowman & Littlefield (Forthcoming in Summer 2011)

## Book Chapters (cont'd)

Bryon, Hilary. "The worm's eye as a measure of man: Choisy's development of axonometry in architectural representation" in *Scale: Imagination, Perception, and Practice in Architecture*, Chapter 4, edited by Gerald Adler, Timothy Brittain-Catlin & Gordana Fontana-Giusti. London: Taylor & Francis / Routledge, anticipated fall 2011.

Clements, Terry. "Where are the Women in Landscape Architecture?" book chapter in *Women in Landscape Architecture: Essays on History and Practice*. In print McFarland Publishers. Linda Jewell and Louise A. Mozingo, Editors. Print ISBN: 978-0-7864-6164-6 EBook ISBN: 978-0-7864-8733-2 ca. 60 photos, tables, notes, bibliography, index

Dunay, R., Schubert, R., Wheeler J., and Clark, D., "Design and Construction of High Performance Homes: Solar Technology," *Innovative Materials and Integrated Practice*. Routledge Press, UK (to be released in Nov. 2011)

Dunay, R., Schubert, R., Wheeler J., and Clark, D., "LumenHAUS," *Nano House*, Phyllis Richardson, editor, Thames and Hudson Inc, UK (to be released in Oct. 2011)

Emmons, Paul and Carolina Dayer, "Performance in the Craft of Architectural Drawing" in *Architecture as a Performing Art*, Gray Read and Marcia Feuerstein, eds. (London: Ashgate, under review for publication).

Emmons, Paul and Jonathan Foote, "Making Plans: Ichographia as a cultural artefact" in *Architecture and Culture* Adam Sharr, ed. (London: Routledge, forthcoming 2011).

Galloway, William, Scarpaci, J., and Kolivras, K. "Engineering Paradise: Marketing the Dominican Republic's Last Frontier," in *Engineering Earth: The Impacts of Mega-Engineering Projects* (ISBN 978-90-481-9919-8), selected papers from the Engineering Earth conference at the Univ. of Kentucky, July 2008. Brunn, Stanley D., Ed. (New York: Springer, 2011) pp. 1267-1282.

Katen, Brian. "Parks Apart: African American Recreational Landscapes in Virginia," in, *Public Nature: Scenery, History and Park Design*, (forthcoming), edited by Ethan Carr, Shaun Eyring, and Richard Guy Wilson. The University Press of Virginia.

Kelsch, Paul and Joseph Schilling, "Integrating disciplines, practices and perspectives in the Commonwealth Avenue Project", in *Service-Learning in Design and Planning: Educating At The Boundaries*, Tom Angotti, Cheryl Doble and Paula Horrigan, eds., Oakland, CA: New Village Press, in press (due out this summer).

McGrath, Margarita. "Fishing for Ghosts," Chapter 11 in *Feminist Practices: Interdisciplinary Approaches to Women in Architecture* (Ashgate Publishers, forth-coming). Editor, Prof. L. Brown, Syracuse University.

Tucker, L.M., 2010. "Environmental Responsibility and Interior Design Education" in Guerin, D. and Martin, C. (eds.) *The State of the Interior Design Profession*. New York: Fairchild Books, pp. 42-47.

Wheeler, Joe. "Ten Action" in *Solar Decathlon Europe Houses*, European Union and the Spanish Ministry Housing (forthcoming)

Wheeler, Joe. "Gordon Watkinson Photography," in *Solar Houses*, Birkhäuser (English & German Editions, forthcoming).

Zellner-Bassett, Paola. "Narrative Space – The Book of Lies" in *Museum Making: Narratives, Architectures, Exhibitions* (forthcoming)

## Textbooks

Tucker, L.M., 2010. *Sustainable Building Systems and Construction for Designers*. New York: Fairchild Books. Textbook adopted by 37 Interior design programs in the U.S.

## Research Papers in Refereed Journals

Clements, T. and Sarah Dorminey, "Spectrum Matrix: landscape design and landscape experience," *Landscape Journal* (currently in final print, anticipated print release fall 2011).

Clements, T., Wiseman, P.E., J. Hoffman, S.D. Day. 2011. "A syllabus-level review of arboriculture education in the United States." *Arboriculture & Urban Forestry* 37(2): 51-59.

Kelsch, Paul, "Putting the History in Natural History: Buster Simpson's *Host Analog* and Alan Sonfist's *Time Landscape*", *Visual and Historical Geographies: Essays in Honour of Denis Cosgrove, Historical Geography Research Series, no 42*. London: Historical Geography Research Group, Royal Geographic Society, December 2010.

Kelsch, Paul, "Cultivating Modernity, History and Nature: The planting design for the Mount Vernon Memorial Highway", *Studies in the History of Gardens and Designed Landscapes*, in press.

McGrath, M. and Ludwig, C. "Mass-Public Space-Response: Berlin Workshop" *The International Journal on the Constructed Environment* (Accepted, submitted for typesetting)

Miller, P.A., S. Abu Bakar and S. Liu. (2010) "An Exploratory Study of the Use Google Earth to Communicate Geospatial Information for Scenic Assessment and Management: Examples from a Study of Claytor Lake in Southwest Virginia," in *Digital Landscape Architecture 2010*. Aschersleben, Germany. pp. 133- 144.

Miller, P. A. and Huan, Y. (in progress) "The Potential Use of Traditional Chinese Medicine in Therapeutic Garden Design," submitted to *Journal of Therapeutic Horticulture*.

Rodríguez-Camilloni, Humberto, "Art: Colonial: South America," *Handbook of Latin American Studies*, Vol. 66, Austin: University of Texas Press (in press).

Setareh, M., and Ma, L., "An Analytical Study of Steel Flat Double Layer Grid Spatial Structures", *Modern Methods and Advances in Structural Engineering and Construction*, Sixth International Structural Engineering and Construction (ISEC-6), Zürich, June 21–26, 2011.

Setareh, M., and Ma, L., "Structural Behavior of Double-Layer Braced Barrel Vaults", *Modern Methods and Advances in Structural Engineering and Construction*, Sixth International Structural Engineering and Construction (ISEC-6), Zürich, June 21–26, 2011.

Setareh, M., "A Study of the Verrazano-Narrows Bridge Movements During A New York City Marathon", *Journal of Bridge Engineering*, American Society of Civil Engineers, Vol. 16, No.1, pp. 127-138, 2011.

Setareh, M. "Vibration Studies of A Cantilevered Structure Subjected to Human Activities Using A Remote Monitoring System", *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 25, No. 2, pp. 87-97, 2011.

Setareh, M. "Vibration Serviceability of A Building Floor Structure – Part I: Dynamic Testing and Computer Modeling", *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 24, No. 6, pp. 497-507, 2010.

Setareh, M. "Vibration Serviceability of A Building Floor Structure – Part II: Vibration Evaluation and Assessment", *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, Vol. 24, No. 6, pp. 508-518, 2010.

Setareh, M., and Lovelace, M., "Vibration Analysis and Design of A Structure Subjected to Human Walking Excitations", *Shock and Vibration Journal*, Vol. 17, No. 4-5, pp. 631-639, 2010.

Setareh, M. "Evaluation and Assessment of Building Vibrations Due to Human Rhythmic Activities", *Structures and Buildings*, in press.

Setareh, M. "Vibrations Due to Walking in A Long-Cantilevered Office Building Structure", *Journal of Performance of Constructed Facilities*, American Society of Civil Engineers, in press.

## Research Papers in Refereed Journals (cont'd)

Tucker, L.M., 2011. "Plans of the Architects Small House Service Bureau and Net Zero Housing." *Journal of Interior Design* (accepted for publication)

Vernon, Mitzi. (2011) "A Theoretical Framework for the Studio as a Learning Environment," *International Journal of Technology and Design Education*.

Vernon, M., McGrath, M., Cennamo, K., Brandt, C., Scott, B., Douglas, S., Reimer, Y., (in press). Managing the complexity of design problems through studio-based learning." *International Journal of Problem-based Learning*.

Wang, Y., P. A. Miller and B. Katen. 2011. "The Traditionality in the Evaluation of Cultural Landscape Space and Its Holistic Conservation Pattern: A Case Study of Qiandeng-Zhangpu Region in Jiangsu Province," *ACTA Geographica SINICA*. (April) 66:4, PP. 57–65.

## Conference Presentations

Albright, Kathryn. "Critical Discussion: Developing Self & Peer Assessment in Creative Disciplines." Conference on Higher Education Pedagogy, February 3, 4, 2011.

Bassett, James, "Three Intervals of an Incomplete Order." Fixed? Architecture, Incompleteness and Change. University of Plymouth, Plymouth, UK. April 2011

Bork, Dean (with Josh Franklin). *Revitalizing Urbanized Watersheds through Densification: A City of Fairfax Case Study*. 2010 International Making Cities Livable Conference, Charleston, S.C.

Bork, Dean (with Josh Franklin). *Revitalizing Urbanized Watersheds: The Fairfax Boulevard Case Study*, 2010 Virginia Stormwater Symposium, Richmond, Virginia

Bryon, Hilary. "The worm's eye as a measure of man: axonometry in architectural representation" *Questions of Scale*, 7th Architectural Humanities Research Association International Conference, University of Kent, Canterbury, November 20-21, 2010

Carraher, Erin. "Parameters of a Digital Design Foundation," ACADIA Regional Conference: *Parametricism* (SPC), University of Nebraska. March 10-12, 2011.

Dorsa, Ed (Co-authored with Tom Martin, Kahyun Kim, Jason Forsyth, Lisa McNair, and Eloise Coupey). "An Interdisciplinary Undergraduate Design Course for Wearable and Pervasive Computing Products," accepted for presentation and publication in the International Symposium on Wearable Computing, June 12-15, 2011 in San Francisco, CA. This symposium is collocated with Pervasive 2011, the Ninth International Conference on Pervasive Computing.

Edge, Kay, Presentation on Work contained in the International Archive of Women in Architecture (IAWA), at the International Union of Women Architects (UIFA) Conference in Seoul, Korea, Oct. 2010

Ermann, Michael, with Vernon, M, Jaramillo, A, Barnobi, C, Han, J, "Fields Everywhere," presented at the 160th meeting of the Acoustical Society of America, Cancun, Mexico, Nov. 2010.

Fenske, Larry and Sharma, Akshay. "Design for Empowerment," IDSA Southern District Conference, *The Business of Design*, Austin, Texas, April 15 -17, 2011.

Grant, E., and Jones, J., "Design Development and Performance Testing of a New Omni-Directional Low Pressure Vent for Low-Sloped Membrane Roofing Systems", presented at the International Conference on Building Envelope Systems and Technologies, Vancouver, BC, Canada, June 27-30, 2010.

Jacobson, Wendy R., and Rennick, Kimberly L. "Place and Process: The Continuum of Place Attachment in an Inner City Neighborhood." Council of Educators in Landscape Architecture/ ISOMUL Conference, Maastricht Netherlands, May 2010.

### Conference Presentations (cont'd)

Jacobson, Wendy R. and Rennick, Kimberly L. "Representation and Encounter: Place Attachment and Public Space in a Gentrifying Neighborhood", The City, 2<sup>nd</sup> International Conference, Vancouver, BC, May 2011.

Katen, Brian. "Good Roads, The Automobile, and the Virginia Landscape," presented at the *Preserving the Historic Road Conference*, September 2010 in Washington, D.C.

Katen, Brian. "Nature for All: The Black Press and the Experience of Nature in Virginia's Landscape of Segregation," presented at the March 2011 *CELA Conference* in Los Angeles.

Katen, Brian. "Yellow Sulphur Springs: A Hidden History," presented at the *Appalachian Studies Conference*, March 2011 in Richmond, Kentucky.

Kelsch, Paul. "Cultivating a Public Riverfront: Cultural Succession in the Vegetation of the George Washington Memorial Parkway", presented at Thinking About Washington's Public Spaces, Ninth Biennial Symposium on the Historic Development of Metropolitan Washington DC, Society of Architectural Historians, Latrobe Chapter, March 2011.

Kelsch, Paul. "Modernity, History and Nature: Cultural Succession in the Vegetation of the George Washington Memorial Parkway", presented at Council of Educators in Landscape Architecture, National Conference, Los Angeles, March 2011.

Kelsch, Paul. "Topographies of Amusement: The evolving terrain of Glen Echo Park, Maryland", presented at Council of Educators in Landscape Architecture, National Conference, Los Angeles, March 2011.

Kim, Mintai. 2011. "Studying Light Pollution as a Tool for Teaching Energy Sustainability" Digital Landscape Architecture 2011. Dessau and Bernburg. May 26-28, 2011.

Kim, Mintai. 2011. "Study of the Relationship between Light Pollution, Types of Lights and Environmental Conditions" CELA 2011. Los Angeles, CA. March 30 – April 2, 2011

Kim, Mintai. 2011. "Study of Relationship Between Urban Ecology and Demographic Changes" CELA 2011. Los Angeles, CA. March 30 – April 2, 2011

Kim, Mintai & Kettler, P.. 2011. "Multiple-Use and Sustainability in the Cemetery Landscape" CELA 2011. Los Angeles, CA. March 30 – April 2, 2011

Kim, Mintai & Morton, Amy. 2011. "Reconnecting People with Nature: An application of biotope mapping and reconciliation ecology design for the urban landscape" CELA 2011. Los Angeles, CA. March 30 – April 2, 2011

McGrath, M. and Ludwig, C. "Mass--Public Space--Response," Paper presented to *The Constructed Environment* International Conference Nov. 17-19, Venice.

Vernon, M., McGrath, M., Cennamo, K. S., Scott, B. C., Douglas, S., & Reimer, Y. (2011). *Adapting Studio-Based Learning Across Design Disciplines: Research-Based Guidelines for Effective Practice*. Paper presented by Cennamo at the American Educational Research Association Meeting, April 8-12, New Orleans.

Vernon, M., McGrath, M., Cennamo, K., Douglas, S., Brandt, C., Scott, B., Reimer, Y., (2011). *Promoting Creativity in the Computer Science Design Studio*. Paper presented by Cennamo at SIGCSE '11: The 42nd ACM Technical Symposium on Computer Science Education, March 12, 2011, Dallas, TX.

McGrath, M., Vernon, M., Cennamo, K., Brandt, C., Douglas, S., & Reimer, Y.J. "The DIY Ethic of the Design Studio - Past, Present & Future." Paper presented by Vernon, Cennamo, McGrath and Reimer at the Industrial Designers Society of America [IDSA] International Conference, Portland, OR, Aug. 4-7, 2010.

### Conference Presentations (cont'd)

Miller, P.A., Z. Chen, T. Clements and M. Powers (2011). "How and Why We Research: Preliminary Findings of Faculty Attitudes Towards Research in Landscape Architecture," Urban Nature 2011 Conference of Educators in Landscape Architecture (CELA). Los Angeles, Calif.

Miller, P.A. and S. Abu Bakar (2011) "Mobile Self-Interpretation: A Case Study on American Civil War Battlefields Using Augmented Reality," presented at the 2011 VT GIS Symposium. (spring 2011). Blacksburg, Virginia.

Miller, P.A., Franz, N. and Jeri Childers (2010). "Mapping the Cultural Context of Engagement at Virginia Tech," presented at the 2010 National Outreach Scholarship Conference, Sustaining Authentic Engagement. Raleigh, N.C. (October 2010).

Renard, Helene. "The Legacy of Felt." 2010 International Union of Women Architects (UIFA) Conference, Seoul, South Korea

Rodríguez-Camilloni, Humberto. "Constantino de Vasconcelos and *quincha* architecture in Spanish Colonial Peru." First International Conference on Structures and Architecture, University of Minho, Guimaraes, Portugal, July 21-23, 2010.

Sharma, Akshay (2011) "Designing empowerment - Design as a catalyst for positive change at the grass roots level." IDSA Southern District Conference, Austin, TX.

Weiner, Frank. "Dialectic of Humanism and Animality," 2011 Conference on Modernity, Humanism and Critique, California State University, Los Angeles, February 12<sup>th</sup>-13<sup>th</sup>, 2011.

Zellner, Paola, "Reconsidering Physicality." Fixed? Architecture, Incompleteness, and Change, University of Plymouth, Plymouth, UK. April 2011

### Papers in Refereed Conference Proceedings

Bassett, James, "The Form of Context." National Conference on the Beginning Design Student, Lincoln, Nebraska. March 2011

Carraher, Erin. "Parameters of a Digital Design Foundation," 2011 ACADIA Regional Conference: *Parametricism* (SPC). Proceeding publication expected to be forthcoming.

Clements, Terry. "What We are Doing Today: a snapshot of scholarship in design education and pedagogy." CELA 2010: Design and Research, in Maastricht, the Netherlands.

Dorsa, Ed. "Modules for Industrial Design." (a description of the implementation and results of curricular changes in the Industrial Design program at Virginia Tech), 2010 IDSA International Design Conference & Education Symposium in Portland, OR, Aug. 8 – 11, 2010

Dunay, R., Wheeler, J., Schubert, R., and McCoy, A.P., "lumenHAUS: Uses and Benefits of ICT for Educational Achievement and Market Advantage.", Proceedings, CIB W78 Conference 2010: 27th Annual Conference on Applications of IT in AEC Industry and BIM Research Workshop, Cairo, Egypt, November 2010.

Kelsch, Paul, Annalisa Miller, Irene Mills, Jacye Swallow, "Preserving the Vegetation of the George Washington Memorial Parkway", Preserving the Historic Road Conference, National Park Service, 2010.

P. A. Miller, Y. Wang, and B. Katen. 2010. "The Conservation of Local Culture Landscape Space Based on The Fragmentation Analysis: A Case Study of Zicaowu Village, Zhejiang Province in East of China," in *The 47<sup>th</sup> International Federation of Landscape Architects (IFLA) World Congress*. London Science Publishing Limited, p. 67-70.

Vernon, M., McGrath, M., Cennamo, K., Douglas, S., Brandt, C., Scott, B., Reimer, Y., (in press) Promoting Creativity in the Computer Science Design Studio. *SIGCSE '11: The 42nd ACM Technical Symposium on Computer Science Education*, March 19-12, 2011, Dallas, TX.



## Papers in Refereed Conference Proceedings (cont'd)

Vernon, M., McGrath, M., Cennamo, K., Brandt, C., Douglas, S., & Reimer, Y., (August, 2010). "The DIY Ethic of the Design Studio - Past, Present & Future." *ISDA 2010 Education White Papers*, available <http://www.idsa.org/content/content1/diy-ethic-design-studio-past-present-future>

Rodríguez-Camilloni, Humberto, "Constantino de Vasconcelos and *quincha* Architecture in Spanish colonial Peru," Paulo J.S.Cruz, ed., *Structures and Architecture: Proceedings of the First International Conference on Structures and Architecture, ICSA 2010*, Guimaraes, Portugal, Boca Raton, London, New York and Leiden: CRC Press, 2010, pp. 311-312.

Rodríguez-Camilloni, Humberto, "The Preservation and Conservation of 20<sup>th</sup> Century Architecture in the U.S.: A Case Study of Frank Lloyd Wright's Fallingwater," Keynote Address delivered at 5<sup>th</sup> Annual Meeting of ICOMOS Mexico Scientific Committee for 20<sup>th</sup> Century Architecture, Toluca, Mexico (in press).

Setareh, M., Bacim, F., Polys, N., Chen, J., Li, J., and Ma, L. "Cognitive Scaffolding in Web3D Learning Systems: A Case Study for Form and Structure", *Proceedings of the 15<sup>th</sup> International Conference on Web 3D Technology*, Los Angeles, California, July 24-25, 2010.

Sharma, A., Goncher, A., & Johri, A. (2010). "Use-Value and Functionality versus Aesthetics and Experience: Inculcation of Design Ideologies in Engineering and Industrial Design Students." forthcoming in *Proceedings of IEEE Frontiers in Education*, 2010.

Sullivan, Martha. "Digital Design and Ceramic Arts", *National Council of Education in the Ceramic Arts (NCECA) Journal*, paper presented at the NCECA Annual Conference in Tampa, Florida, April 2011.

Tucker, LM., 2011. "Sustainable Methods and Practices: Learning from the Architects' Small House Service Bureau," IDEC International Conference, Denver, Colorado, March, 2011. (acceptance rate 44.7%)

## Exhibitions

Terry Clements was invited by the Cultural Landscape Foundation (TCLF) to submit creative work for fall 2011 silent auction and exhibition supporting TCLF's educational programs, to be held at the ASLA Annual Meeting in San Diego, CA.

The Virginia Tech LumenHAUS (Faculty advisors: Robert Dunay, Joe Wheeler, Robert Schubert, and David Clark) was featured in "LumenHAUS" at the 2010 Architecture Biennale, Spanish Pavilion, Venice, Italy, August – November 2010. The exhibit highlighted the Virginia Tech LumenHAUS as the overall winner of the Solar Decathlon Europe competition.

Robert Dunay, Jonathan Grinham, and Andrew Balster, were invited to exhibit their work, "Kinetic Architecture Research," at Architecture Exchange East, Nov 2010.

Susan Piedmont-Palladino curated the exhibition, "Intelligent Cities," National Building Museum, Washington, DC.

Paola Zellner-Bassett served as an advisor for the Virginia Tech 2011 Fashion Merchandising and Design Society (FMDS) Annual Fashion Show, working with students in the design, development, fabrication and installation of the set design, in collaboration with Professor Tom Martin from Electrical and Computer Engineering, Destiny Jackson (architecture senior) and Zack Rattner (computer engineering), March 18<sup>th</sup>, Squires Ballroom.

## Poster Presentations

Jacobson, Wendy R. "The Evolution of an African American Main Street: A Morphological Study". Poster exhibited at Mapping Spectral Traces Conference, Virginia Tech, Oct. 2011

Kim, Mintai. 2011. "Teaching Sustainability in a Studio Environment" Poster. Third Annual Conference on Higher Education Pedagogy. Blacksburg, VA. Feb 3-4, 2011

## Published Reviews

Ermann, Michael, Review of Journal Manuscript, "Proposal of Facade Elements for Natural Ventilation and Sound Insulation," *Building Acoustics*, Dec. 2011.

Setareh, Mehdi, Journal Paper Review for *Journal of Engineering Structures*: "Passively Controlled and Local Response Governed MR Damper Applications in Base-Isolated Benchmark Building"

Setareh, Mehdi, Journal Paper Review for *Engineering Journal, American Institute of Steel Construction*: "Modeling Footfall with Parametric Walking – Rigorous Modeling with Contemporary Analysis Tools -Part I"

Setareh, Mehdi, Journal Paper Review for *Engineering Journal, American Institute of Steel Construction*: "Parametric Walking Model (PWM) -- Comparison of Design Guide 11, PWM, and Experimental Results - Part II"

Setareh, Mehdi, Journal Paper Review for *Journal of Engineering Mechanics, American Society of Civil Engineers*: "Floor Stochastic Vibration Induced by Rhythmic Excitation and Control Using Optimal Multiple Tuned Mass Dampers"

Setareh, Mehdi, Journal Paper Review for *Journal of Mathematical Problems in Engineering*: "Dynamics of an Autoparametric Pendulum-Like System with a Nonlinear Semi-Active Suspension"

Setareh, Mehdi, Journal Paper Review for *Journal of Performance of Constructed Facilities, American Society of Civil Engineers*: "Vibration Based Damage Detection using Damage Location Assurance Criteria for Structural Health Monitoring"

Setareh, Mehdi, Journal Paper Review for *Journal of Performance of Constructed Facilities, American Society of Civil Engineers*: "Seismic Performance Assessment of Masonry Tile Domes through Nonlinear Finite Element Analysis"

Setareh, Mehdi, Journal Paper Review for *Journal of Performance of Constructed Facilities, American Society of Civil Engineers*: "Vibration Based Structural Health Monitoring of Eynel Bridge"

Setareh, Mehdi, Journal Paper Review for *Shock and Vibration Journal*: "Improvement of Tuned Vibration Absorber's Performance via Semi-Active Control of Damping and Stiffness"

Setareh, Mehdi, Journal Paper Review for *Journal of Vehicle System Dynamics*: "Fictitious Suspension Platforms for Optimal Ride Comfort"

## Reports

Rodríguez-Camilloni, Humberto, "Master Plan for the Restoration and Conservation of the Monastic Complex of San Francisco El Grande," Lima, Peru (under implementation).

Rodríguez-Camilloni, Humberto, "Master Plan for the Restoration and Conservation of the Historic City of Old Santa Fe, Argentina," (under implementation).

## Articles in Newsletters

Rodríguez-Camilloni, Humberto, "Sidney D. Markman," *Association of Latin American Art Newsletter*, Vol. 23, No. 01, April 2011, pp. 2-3.

Rodríguez-Camilloni, Humberto, "Milka T. Bliznakov," *Society of Architectural Historians News*, Vol. LV, No.1, March 2011, p. 12.

Rodríguez-Camilloni, Humberto, "José de Mesa Figueroa (1925-2010)," *Association of Latin American Art Newsletter*, Vol. 22, No. 02, October 2010, p. 2.

## Published Abstracts

Bohannon, Cermetrius L. and Terry L. Clements. 2011. Reflections on Community Engagement: Making Meaning of Experience. In *Gulf-South Summit on Service-Learning and Civic Engagement through Higher Education*. Roanoke, VA.

Bohannon, Cermetrius L. and Terry Clements, 2011. "Student Reflections on Community Engagement in the Design Studio: Making Meaning of Experience. Urban Nature CELA 2011: Council of Educators in Landscape Architecture 2011 Annual Meeting Schedule and Abstracts, p. 85-86.

Clements, Terry, Zheng Chen, Patrick Miller, and Matthew Powers, 2011. "How and Why We Do Research: Faculty Attitudes Toward the Research in Landscape Architecture" Urban Nature CELA 2011: Council of Educators in Landscape Architecture 2011 Annual Meeting Schedule and Abstracts, p. 155-56.

Clements, Terry L. 2011. Engaging our Multiple Intelligences in Site Design: Explorations in the Role of Cognition and Landscape Experience. In *5th International Conference on Design Principles and Practices*. Rome, Italy.

Clements, Terry, 2011. "Responsive and Reflective Learning in the 'Toughest' Studio." Urban Nature CELA 2011: Council of Educators in Landscape Architecture 2011 Annual Meeting Schedule and Abstracts, p. 117.

Clements, Terry L. 2010. What We are Doing Today: a snapshot of scholarship in design education and pedagogy." In *CELA 2010: Landscape Legacy*. Maastricht, the Netherlands.

Clements, Terry L. 2011. Why Did Women Choose to Study Landscape Architecture? Urban Nature CELA 2011: Council of Educators in Landscape Architecture 2011 Annual Meeting Schedule and Abstracts, p. 235.

Clements, Terry, Art Rice, Rebecca Myers, Richard Hawks, and J. Niefeld. 2010. Catalyst of the Strange: the impact of study abroad on the development of landscape architecture students' design abilities. In *CELA 2010: Landscape Legacy*. Maastricht, the Netherlands.

Grant, E., and Jones, J. "Design Development and Performance Testing of a New Omni-Directional Low Pressure Vent for Low-Sloped Membrane Roofing Systems", International Conference on Building Envelope Systems and Technologies, Vancouver, BC, Canada, June 27-30, 2010.

McSherry, L. 2009. "Possibilities Along Lines of Difference." Abstract published in proceedings: *CELA 2010: Landscape Legacy: Landscape Architecture Between Art and Science*. Maastricht, The Netherlands.

Sharma, Akshay. (2010).. "Design for other cultures - Designed empowerment." DesignEd2010, Hongkong.

Sharma, Akshay (2010). "Thin Physical Interface-A new approach for teaching and learning 3D applications." IDSA Southern District Conference

Sharma, Akshay (2010). "Designed - Access to knowledge for girls in developing societies." IDSA International Conference - 2010

Tucker, LM., 2011. "Transitional Spaces; The Interior-Landscape Relationship in the Design of the Architects Small House Service Bureau" FLOW 1: A Conference in Two Parts, The Modern Interiors Research Center, Kingston University, London, UK.

Tucker, LM., 2011. "Net Zero Housing: The Architects' Small House Service Bureau and Contemporary Sustainable Single-Family House Design Methods for the U.S." Symposium Design for a Small Planet, Denver, Colorado, March. (acceptance rate 68%)

Tucker, LM, 2010. "Modifying Wright's Buildings and their Sites: Additions, Subtractions, Adjacencies," 2010 Conference of the Frank Lloyd Wright Building Conservancy, Cincinnati, OH.

## Keynote Addresses

Markus Breitschmid delivered the keynote address, "Valerio Olgiati," at the American Institute of Architects Master Architects Series, Richmond, Virginia, November 6, 2010.

Susan Piedmont-Palladino delivered the keynote address at the FORMCities Urban Divide Symposium, Mississippi State University, Jackson Design Center.

## Invited Lectures

Clements, Terry, "Thoughts on creating public space within the private domain." Part of the kick-off for the Freedom Park Charrette, Rosslyn, Virginia. January 21, 2011.

Dunay, Robert and Wheeler, Joseph, "Skills for High Performance Buildings: Green Modular Building Delivery Systems," workshop conducted at the American Institute of Architects National Convention, New Orleans, May 2011.

Dunay, Robert, "LumenHAUS - a Net Zero Energy Dwelling," "Eclipsis System - An Innovative Sun Control and Insulation Fenestration," "Design Research - the Art of Integration," three invited lectures, Kyushu University, Fukuoka, Japan, Feb. 2011

Dunay, Robert, Wheeler, Joseph, Schubert, Robert, Clark, David, "Skills for High Performance Buildings: Green Modular Building Delivery," invited lecture, Build Boston, Boston, MA, Mar. 2011

Dunay, Robert and Wheeler, Joseph, "Strategic Roadmaps to 2050, Green Buildings and Renewable Energies," Pollutec 2010, International Exhibition of Environment Equipment, U.S. Dept of Energy/ADEME, Lyon, France, Dec. 2010

Dunay, Robert and Wheeler, Joseph, "LumenHAUS – Sustainable Design and a Net-Zero Energy House," American Chamber of Commerce, Green Forum, Paris, France, Dec. 2010

Dunay, Robert, "Case Study: LumenHAUS - Winner of the 2010 international Solar Decathlon Competition," Green Building Focus Exposition and Conference, Charlotte, NC, April 2011

Dunay, Robert, "Sustainable Solutions for Uncertain Times," 22<sup>nd</sup> Annual Environment Virginia Symposium, Center for Leadership and Ethics, Lexington, VA, April 2011

Dunay, Robert and Wheeler, Joseph, "Fabrication and Digital Technology," Catholic University, Washington D.C., Jan 2011

Dunay, Robert and Wheeler, Joe. "Eclipsis System: An Innovative Sun Control and Insulation Fenestration System," Architecture Exchange East, American Institute of Architects state convention, Richmond, Virginia, Nov 2010

Dunay, R., Schubert, R., Wheeler, J., and McCoy, A., "lumenHAUS: A Responsive Architecture," presented at The Governor's Conference on Energy, Richmond, VA, October 2010

Dunay, Robert and Wheeler, Joseph, "Industrialized processes and Design Education," Marywood University, Scranton, PA, October 2010

Grant, Elizabeth. "Basics and Benefits of Green Roof Systems", Invited lecture, Sustainability Week, Town of Blacksburg, September 25, 2010.

McGrath, Margarita. "Practice, a Worm's Eye View," Invited Lecture. *Norwich University*. Northfield, VT. Feb 11, 2011.

McGrath, Margarita. "Practice, a Worm's Eye View," Invited Lecture. *North Dakota State University*. Fargo, ND. Nov. 5, 2010.

Piedmont-Palladino, Susan. "Brutalism: the Architecture we Love to Hate," lecture presented at the National Building Museum, Washington, DC.

### **Invited Lectures (cont'd)**

Rodríguez-Camilloni, Humberto. "Inca Engineering" and "Mystery and Majesty of Machu Picchu." Civil and Environmental Engineering Department, University of Virginia, Charlottesville, VA, September 23, 2010.

Rodríguez-Camilloni, Humberto. "Under Cover of Darkness: The Meaning of Night in Ancient Mesoamerica." Pre-Columbian Society of Washington, D.C. Symposium, Washington, D.C., September 25, 2010

Rodríguez-Camilloni, Humberto. "From Rosalila to Oropendola: Unearthing Maya Secrets at Copán, Honduras." Dumbarton Oaks Pre-Columbian Studies Colloquium, Washington, D.C., February 24, 2011

Rodríguez-Camilloni, Humberto. "Form and Meaning of the Coricancha, Golden Pantheon of the Incas." 64<sup>th</sup> Annual Meeting Society of Architectural Historians, New Orleans, LA, April 13-17, 2011.

Rodríguez-Camilloni, Humberto. "The Rice House Charrette," Science Museum of Virginia, Richmond, VA, April 30, 2011

Rodríguez-Camilloni, Humberto. "Understanding the Early Worldviews in Ancient Peru," Pre-Columbian Society of Washington, D.C. and Embassy of Peru, Colloquium, May 10, 2011.

Tucker, Lisa. "The Architects' Small House Service Bureau: Single Family Homes and Good Design," Middle Tennessee State University 2011 Lecture Series, March 30, 2011

Wheeler, Joe. "Nearly zero-energy buildings: from research to real construction," International Conference 10Action; Instituto para la Diversificación y Ahorro de la Energía (IDEA), Barcelona, Spain, 18 May 2011.

Wheeler, Joe. "Accessible Design of the Crawford Smith Residence," 2011 Roanoke Regional Housing Symposium, Vinton War Memorial, Vinton, Virginia. May 2011

Wheeler, Joe. "The Aesthetics of Technology - Interdisciplinary Research to design and construct a net-zero energy Dwelling," Green Building Focus – USGBC, Charlotte, N.C., April 20 - 21, 2011

Wheeler, Joe. Lecture and Energy and Technology Consultant; Lighting Design, Corcoran College of Art and Design, Washington, DC April 2011

Wheeler, Joe. "Strategies for Solar Decathlon Competition," Catholic University of America, College of Architecture, Washington DC, January, 2011

Wheeler, Joe. "Research Focus Group," Catholic University of America, College of Architecture, Washington DC, January, 2011

Wheeler, Joe. Presentation to Perkins Eastman on Lumenhaus Research, New York, NY, December 2010

Wheeler, Joe. Presentation to Rehau National Conference on Energy, Leesburg, Virginia, September 2010

Wheeler, Joe. "Green Modular Manufacturing Delivery Systems", Build Boston Conference and Trade Show (Given by Nathan King on behalf of J. Wheeler) November 2010

### **Invited Panelists, Moderators**

Clements, Terry, Invited Panel Member, "Sustainable Landscape Design and Development" at the US Mission to the United Nations in Geneva, Switzerland, August 10th, 2010

Dunay, Donna. "Celebrating Women in Design: Sharing Insights and Experiences" Colloquium, with Mary McLeod, Chrysanthe Broikos, Shannon Chance, Carmina Sanchez, University of Virginia

### **Invited Panelists, Moderators (cont'd)**

Jones, Jim, Panelist: "BIM for facility management." The 2010 Annual Labs21 conference, Albuquerque, NM. Sept. 29, 2010.

McGrath, Margarita. openhouse**newyork**, Invited participant, October 9-10, 2010

Piedmont-Palladino, Susan. Panelist, Data and Cities, Regional Plan Assembly, New York

Rodríguez-Camilloni, Humberto. Discussant. 18<sup>th</sup> Symposium on Architectural History and the Decorative Arts, "Traditions--II," Department of Art History, The School of the Arts, Virginia Commonwealth University, Richmond, VA, November 19, 2010.

Tucker, Lisa. Invited Participant (one of 100) to the Design Futures Council 9th Annual Leadership Summit on Sustainable Design, October 5-7, 2010, Atlanta, GA

Weiner, Frank. Moderated paper session on "Aesthetic Depth". 35<sup>th</sup> annual meeting of the International Merleau-Ponty Circle, University of North Carolina at Asheville, September 22<sup>nd</sup> – 24<sup>th</sup>, 2010.

Zawistowski, Keith and Marie. "Work/Life Balance", Panel Discussion Participant, Arch. Exchange East, Richmond, VA, November 2010

### **Invited Reviewers**

James Bassett participated in final reviews for the Master of Science in Design Research at the University of Michigan, March 2011.

Hilary Bryon was invited by Department of Architecture Chair, Taisto Mäkelä, to participate as a Visiting Critic in 2nd year and comprehensive graduate studio juries, University of Colorado-Denver, College of Architecture and Planning, May 3-4, 2011.

Terry Clements was invited to participate in final semester reviews for three graduate studios including each year in the MLA 1st professional degree program for the Master of Landscape Architecture program at the University of Tennessee, December 2010.

Margarita McGrath participated in final reviews for the second-year studio at Pratt Institute, April 25-26, 2011.

### **Invited Jurors**

Associate Professor of Industrial Design Ed Dorsa served as a juror for the Industrial Design Excellence Awards, sponsored by IDSA, Target Stores and Fast Company Magazine. This is the premier ID award in the United States and one of the major awards internationally, with entries from the North and South America, Europe and Asia.

Terry Clements served on the jury for the National Student Charrette for U.S. Mission in Geneva, Switzerland: "greening" the grounds to demonstrate the US State Department's commitment to sustainable design and showcase American design expertise. Selected 9 students from a national pool, late spring 2010.

Larry Fenske served on the jury to select the 2011 IDSA Western District Student Merit Award Winner, Industrial Designers Society of America (IDSA) Western District Conference, *Social Impact*, in San Jose, California, May 6 - 7, 2011

Wendy Jacobson served on the American Society of Landscape Architects (ASLA) Student Awards Jury, Apr. 2011.

Jim Jones served as a juror for the 2010 Design Innovation Awards for the Modular Building Institute.

Susan Piedmont-Palladino served as a juror for the Foreign Studies Competition, the Catholic University of American School of Architecture.

### **Invited Jurors (cont'd)**

Susan Piedmont-Palladino served as a juror for the AIA Annual Design Awards, Houston, TX.

Susan Piedmont-Palladino served as a judge for the Inspiration Awards, *Contract Magazine*.

### **Editorial Activities**

Helene Renard served as editor of the *International Archive of Women in Architecture (IAWA) Newsletter*.

Lisa Tucker served as a member of the editorial board of the *Journal of Interior Design*.

### **Artists-in-Residence**

Helene Renard was invited to serve as an artist-in-residence for the Detroit Research Project (DFLUX.org).

### **Student Accomplishments – Architecture and Design Research PhD program Design Research Track (Building Sciences) in Blacksburg**

#### **Publications**

Ali, A., Jones, J., "Between Design Process and Process Design: lessons learned from process engineering", *The International Journal of Environmental, Cultural, Economic and Social Sustainability, British Columbia, Canada, Conference proceeding*, coming fall 2012.

Ali, Ahmed, "Re-Defining the Architectural Design Process through Building a Decision-Support Framework for Design with Reuse", Conference proceeding, Decon'11, Yale University, New Haven, CT, May 2011.

Bozorgi, A. "Integrating Value and Uncertainty in the Sustainable Options Analysis in Real Estate Investment" the Architecture Research Centers Consortium, 2011 Conference. Detroit MI, April 20 – 24.

Bozorgi, A., Jones, J. R., "Integrating Value and Uncertainty in the Sustainable Options Analysis in Real Estate Investment" is currently under review in the *Journal of Sustainable Real Estate*.

Bozorgi, A., Jones, J. R., "A Framework for Linking Projected Energy Performance Uncertainty with Investment Decision-making" will be published in the conference proceedings and will be presented in the *2010 American Council for an Energy Efficiency Economy (ACEEE) Building Summer Study*. Pacific Grove, California, August 15-20, 2010.

Bozorgi, A., Jones, J. R., "What Else Do Design Professionals Need to Know About Sustainable Building Investment? A New Assessment Approach" will be published in the conference proceedings of *The Second International Conference on Sustainable Architecture and Urban Development*. Amman, Jordan, July 12-14, 2010.

Negar Kalantar, Kihong Ku and Jonathan Grinham, (2011). a2o: Responsive Mediator, *2A Magazine*, quarterly issue # 15, Fall 2011.

Negar Kalantar and Alireza Borhani, (2011). Beyond Transparency, *2A Magazine*, quarterly issue # 15, Fall 2011.

Gowda, V., and J. Jones, "Performance Assessment of Alternative Composite Earth Wall Panels." *SB11 World Sustainable Building Conference*, Helsinki Finland.

#### **Symposia Posters and Presentations**

Ali, Ahmed, "Design with Reuse Framework Development", Poster Presentation, 27<sup>th</sup> GSA Research Symposium, Virginia Tech GLC, Blacksburg, VA, March 2011

Bozorgi, A. "Integrating Value and Uncertainty in the Sustainable Options Analysis in Real Estate Investment," GSA Annual Graduate Student Symposium and CAUS Research Symposium

**Student Accomplishments – Architecture and Design Research PhD program  
Design Research Track (Building Sciences) in Blacksburg (cont'd)**

Gowda, V., "Performance Assessment of Alternative Composite Earth Wall Panels."  
Mabdeh, Shouib. 2011. A Decision-Support Framework for the Design and Application of Radiant Cooling Systems. GSA Annual Graduate Student Symposium and CAUS Research Symposium

**Honors and Awards**

Alireza Bozorgi. The James R. Webb American Real Estate Society Foundation (Travel Fund), Seattle, WA, December 2010

Alireza Bozorgi. Alpha Aka Alpha (AKA) Graduate Scholarship, AKA Educational Advancement Foundation, Inc. Chicago, IL, November 2010

Alireza Bozorgi. 2010 Pension Real Estate Association (PREA) Scholarship, PREA, Hartford, CT, July 2010

Alireza Bozorgi. 2010 American Council for an Energy Efficiency Economy (ACEEE) Student Scholarship (Travel Fund), Energy Efficiency in Buildings Conference, ACEEE, June 2010

**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (WAAC)**

**Primary Program Faculty:** Dr. Paul Emmons, program coordinator, Dr. Marcia Feuerstein, Dr. Paul Kelsch (LAR)

**Students (12):** Ameneh Amirikani, Carolina Dayer, Jonathan Foote, Amy Gilley, Federica Goffi, Hooman Koliji, Linda Heinrich, Mary Johnson, Andreea Mihilache, Annalisa Miller (LAR), Scott Neunemaker, and Ellen Sullivan.

All program graduates (four) are professors teaching in tenured or tenure-track positions. Of the students on dissertation only (ABD), two have teaching positions and two are practicing in architectural firms.

The weekly PhD Lecture Series was inaugurated in the Spring semester. *Practicing Theory*, the inaugural WAAC PhD Program Lecture Series, (Spring 2011) School of Architecture + Design, Virginia Tech follows on the success of the earlier Ph.D. student-organized international symposium: *Constructing Imagination: A Symposium on the Matter of Architectural Scholarship*, (2010). The lecture series was also organized as a course for undergraduate and graduate students. Speakers included internal PhD Students, Blacksburg faculty and invited external speakers. External presenters included:

Perry Kulper (University of Michigan) *Voluminous Lack* Lecture and Exhibition (also toured to AA, London).

Raymond Quek (Nottingham Trent University, UK) *Disegno at the fulcrum of Objectification: The Drawn and the Reproduced Image in Architecture*.

Jorge Slautsky (Atelier d'architecture J.S., Brussels) *Constructing Contemporary architecture within the European Urban Tissue*.

Ramla Benaissa (R.B. Architects) *Drawing as Criticism: Jacques-François Blondel's analytical teaching*".

Anu Mathur (University of Pennsylvania) "SOAK: Mumbai in an Estuary".

Bill Braham (University of Pennsylvania) "Household Power".

Scholarly PhD student activity included more than ten book chapters, four journal articles and twenty-six conference presentations.



**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (cont'd)**

**Publications**

**Books, Translation and Dissertations**

Carolina Dayer, Collaborative Editor and Spanish Translator of Alberto Pérez-Gómez's forthcoming book *El Sueño de Polyfilo (The Dark Forest)*.

Federica Goffi, *The Sempiternal Nature of Architectural Conservation and the Unfinished Building and Drawing* (Final defense, 2010 and public presentation, 2011).

Hooman Koliji, *Dirineh-Kha'neh: Sketches from Iranian Architecture*, Tehran: Shahid Beheshti University Publishers (Second Edition, 2010).

**Book Chapters**

Carolina Dayer and Paul Emmons, "Performance in the Craft of Architectural Drawing" in *Architecture as a Performing Art*, Gray Read and Marcia Feuerstein, eds. (London: Ashgate, under review for publication).

Jonathan Foote, "Ethos Logos Pathos: Architects and their Chairs" in *Scale: Perception, Imagination and Practice in Architecture* Gerald Adler, Timothy Brittain-Catlin & Gordana Fontana-Giusti, eds. (London: Routledge, forthcoming 2011).

Jonathan Foote and Paul Emmons, "Making Plans: Ichographia as a cultural artefact" in *Architecture and Culture* Adam Sharr, ed. (London: Routledge, forthcoming 2011).

Federica Goffi, "Restoring the Corporate Body: The Nature of Architectural Spoils in Tiberio Alfarano's Ichnographia of Saint Peter's in the Vatican" in *Architecture in Pieces: The Representation of Architecture by Means of Spolia*, Lex Bosman, ed. (Brepols, forthcoming 2011).

Federica Goffi, "Renaissance Visual Thinking. Architectural Representation as Medium to Contemplate Real Appearance" in *The Humanities in Architectural Design: A Historical and Contemporary Perspective*, Soumyen Bandyopahdyay, Jane Lomholt, Nicholas Temple and Renée Tobe, eds. (London: Routledge, 2010).

Mary Vaughan Johnson, "The Matter of Pochoir and the Imaging of the *Maison de Verre*" in *Manufacturing the Bespoke – The Making and Prototyping of Architecture, AD Reader*, (New York: Wiley and Sons, forthcoming 2011).

Andreea Mihalache, "The Peripheral Construction of National Identity: Architectural Travelogues of Bucharest and Washington in *Life and Simetria* Magazines," *National Identities* (London: Taylor & Francis Group, forthcoming).

Andreea Mihalache, "Between Church and State: The Competition for the Romanian Patriarchal Cathedral, Bucharest, 2002," in M. Ronn, R. Kazemian, J. E. Anderson, eds., *The Architectural Competition: Research, Inquiries, Experiences* (Stockholm: Axl Books, 2010).

Andreea Mihalache, "Re-Inventing the Center: Urban Memory, Political Travel and the Palace of the Parliament in Bucharest, Romania," in *All that is Solid Changes with Perspective: Place and Placemaking in a Mobile World*, Arijit Sen, ed. (London: Ashgate, under review for publication).

Ellen Sullivan, "Drawing Blood: The Sectional Diagrams of Patrick Geddes" in *The Architecture of Utopia*, Nathaniel Coleman, ed., *Rahaline Utopian Studies*, vol. 8 (Oxford: Peter Lang Academic Publishers, 2011) pp. 165-182. ISBN 978-3-03430-120-6.

**Journal Articles**

Federica Goffi, "Drawing Imagination & the Imagination of Drawing. The Role of Ambiguity and the Unfinished in Architectural Conservation Drawings" *Interstices, Journal of Architecture and Related Arts* (October, 2010).

**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (cont'd)**

Hooman Koliji, "Revisiting the Squinch: Squaring the Circle, From Tectonic Geometry to Philosophy of Imagination", *Nexus Nextwork Journal of Mathematics and Architecture* (forthcoming 2012).

Hooman Koliji, "Landscape | Architectural Drawing" 2A: *Art and Architecture Magazine* (United Arab Emirates, Dubai, 2010) pp. 34-41.

Hooman Koliji, "The Vertical Surface," *Architecture and Construction* (Tehran, 2010).

**Conference Proceedings**

Federica Goffi, "In Place and Time" *Where do you stand? ACSA Annual Meeting Proceedings*, Annie Pedret and Alberto Perez-Gomez eds. (Washington DC, 2011).

Koliji, Hooman. (2010). Hooman Koliji, "Between the Art and the Science: Architecture and Ibn Arabi's theory of Alam Al-Khayal, Mundus Imaginalis," *Council of Educators in Landscape Architecture 2010 Annual Conference*, Maastricht, The Netherlands, May 2010 (Proceedings).

Andreea Mihalache, "Poetic Techniques of Space Making: *La Ciudad Abierta*, Chile," B. Goodwin, J. Kinnard (ed.). *Re-Building*, Proceedings of the 98<sup>th</sup> ACSA Annual Meeting, ACSA Press: Washington, D.C. (2010).

**Conference Presentations**

Carolina Dayer, "Corporis Adumbratio: the divine scale of God in the human scale of Earth" *Scale*, AHRA Conference at the University of Kent, England.

Carolina Dayer, "Interpretation through *copia*: Michelangelo's imaginative gaze" RECTO – VERSO redefining the sketchbook conference at University of Lincoln, England.

Carolina Dayer, "The magician inside the architect," *Practicing Theory PhD Lecture Series*, WAAC.

Jonathan Foote, "Ethos Logos Pathos: Architects and their Chairs", *Architectural Humanities Research Association International Conference on Scale* (University of Kent, UK, 2010).

Jonathan Foote, "The well-tempered template drawing," *Practicing Theory PhD Lecture Series*, WAAC.

Amy Gilley, "John Hejduk's Silent Witnesses: Images Of Architectural Thought" in *Regarding the Unseen - Assessments of Architectural Inheritance Doctoral Seminar*, Copenhagen, Denmark 2010.

Federica Goffi, "The Hybrid Phenomena of Architectural-Conservation Technologies" *Fixed*, conference organized by the School of Architecture, University of Plymouth, England (April, 2011).

Federica Goffi, *Brouillons, Basilicae and other Factures*, ORSA Architecture Week (October, 2010).

Federica Goffi, "The Search for a Hybrid Structural Imagination Language; Reassembling Architecture's Body of Knowledge," *The Cultural Role of Architecture Conference* School of Architecture, Lincoln, England (2010).

Federica Goffi, "Not a Sketchbook per se - Drawing the line before and after" in *Recto-Verso; Redefining the Sketchbook*, Lincoln University (Feb. 2011).

Federica Goffi, "In Place and Time" *Where do you stand? ACSA Annual Meeting Proceedings*, Annie Pedret and Alberto Perez-Gomez eds. (Washington DC, 2011).

Federica Goffi, "The Sempiternal Nature of Architectural Conservation," *Practicing Theory PhD Lecture Series*, WAAC.

Linda Heinrich, "Sketch-Up: The Oneiric Imagination of Architecture," *Practicing Theory PhD Lecture Series*, WAAC.

**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (cont'd)**

Linda Heinrich, "The Enduring Cartoons of Winsor McCay, a guide to the intelligent use of computer animation software", *Constructing Imagination*, Washington-Alexandria Architecture Consortium symposium (2010).

Mary Vaughan Johnson, ICAM (International Confederation of Architecture Museums) Annual Conference, Paris, France (2010).

Hooman Koliji, "Imaginative Inhabitation of the Islamic Garden" *Council of Educators in Landscape Architecture 2011 Annual Conference*, Los Angeles CA (poster).

Hooman Koliji, "From "Red Books" of Humphry Repton to the Digital Visualization, a Pedagogical Review", *Digital Landscape Architecture 2011, European Council of Landscape Architecture School Annual Conference*, Dessau, Germany.

Andreea Mihalache, "East, but not too Far East: Architecture and Political Travel in Bucharest, Romania," *ACSA 99<sup>th</sup> Annual Meeting*, Montreal (2011).

Andreea Mihalache, "Looking at Each Other: Bucharest and Washington in *Life and Simetria* Magazines," *Theoretical Currents – Architecture, Design and the Nation*, Nottingham Trent University, September 14-15, 2010.

Andreea Mihalache, "The Risk of Tomorrow: Romanian Architects Traveling to North America, 1939-1947," *Mid-Atlantic Popular / American Culture Association*, Annual Conference, Alexandria, VA, October 28-30, 2010 (abstract accepted for presentation, but unable to attend due to scheduling conflict).

Annalisa Miller, "The Mesoamerican Temazcal: Healing Holistically, Body to Building, Body with Soul", *The Spirituality of Place, Savannah College of Art and Design 7th Savannah Symposium*. Invited to submit for book chapter publication.

Annalisa Miller, "Ritual Transects and Bodily Binding: Landscapes of the Maya Sweatbath," *Practicing Theory PhD Lecture Series*, WAAC.

Ellen Sullivan, "Freedmen's Cemetery: Design as a Practice of Re-Consecration" *Spirituality of Space: Savannah College of Art and Design*, Savannah, GA. February, 2011.

Ellen Sullivan, "Patrick Geddes: The Cities and Town Planning Exhibition", *Practicing Theory PhD Lecture Series*, WAAC.

**Invited Lectures**

Jonathan Foote, invited lecturer, "Modenatura: The art of embellishing masses", *Horizonte lecture series*, Bauhaus-Universität Weimar (Germany).

Federica Goffi, "On Notation: Making Visible Aural Architecture. Designing Atmospheres," *IRHA Sensory Architecture Lecture Series*, Canadian Center for Architecture (CCA), Montreal (2010).

Federica Goffi, *Re-Thinking Structural Imagination from the Details*, Rhode Island School of Design Lecture Series (December, 2010). RISD, Providence, RI.

Andreea Mihalache, invited speaker, "Architecture and City in Romania after 1989," workshop organized by the Romanian Department of Education and Research, and New Europe College (Institute for Advanced Studies), Bucharest, 22-23 September, 2010.

Mary Vaughan Johnson, "Representation in Architecture through a reading of the Maison de Verre" *Pit Lecture Series*, Azrieli School of Architecture and Urbanism, Carleton University, Ottawa, CA (Fall, 2010).

Hooman Koliji, "*Design as Research*," Landscape Architecture Research Methods, Graduate Course, Landscape Architecture Department, University of Maryland (2011).

**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (cont'd)**

Ellen Sullivan, "Patrick Geddes: Collecting the City", invited lecture at Newcastle University, UK, 2010.

Ellen Sullivan "Patrick Geddes: Paradigmatic Strategies", invited lecture, Department of Architecture, University of Limerick, Ireland, 2010.

**Grants**

Mary Vaughan Johnson, received a research grant from the Association de la Maison de Verre, Paris, France (2010 – 2011).

**Service and Outreach**

Carolina Dayer, curator of drawing exhibition: *Overdrawing* by Perry Kulper (University of Michigan) (WAAC, 2011).

Amy Gilley Film workshop leader, Northern Virginia Community College, Annandale (Fall 2010).

Federica Goffi, Peer Reviewer *INT.Ar (Intervention in Adaptive Reuse Journal)*.

Hooman Koliji, Co-organizer, *[Re]presentation Symposium*, School of Architecture, Planning and Preservation, University of Maryland (Fall 2010).

Andreea Mihalache, Peer reviewer for the *Boletín Académico. Revista de investigación y arquitectura contemporánea*, edited by Escola Técnica Superior de Arquitectura de Coruna, Universidade da Coruna (since 2010).

**Professional and Creative Practice**

Ameneh Amirhakimi, AIA, Leed, AP + BD&C, Passed Architectural Registration examination for Washington DC, Project Architect, Beery Rio Architects, Springfield, Virginia.

Carolina Dayer, *Behind Drawings: Mirrored Narratives* and Ellen Sullivan, *Chalk talks: The Material of the Ephemeral* (VT, WAAC Exhibitions, Spring 2011).

Jonathan Foote, "Tectonic mediations in modanatura", stainless steel and bronze freestanding trellis structure, Washington DC (2011).

Linda Heinrich, Lead architect and lighting designer, MFM Design: Earl Scruggs Museum in Shelby, North Carolina; *For All the World to See*, exhibition for the National Museum of African American Culture and History about the role of photography in the Civil Rights Movement; *Cosmos*, exhibition for the National Museum of African Art (2010).

Linda Heinrich, *Artifice of Memory*, exhibition with two other artists at *Gallery 10* (Washington DC), works on paper and sculpture relating memory to the making of architecture (2010).

Scott Nunemaker, Project Architect at AECOM Ellerbe Becket.

**Teaching (Institutions other than Virginia Tech)**

Carolina Dayer, Invited Guest at Final Studio Reviews at Marywood University, Scranton, PA. and Final Studio Reviews at University of Maryland, MD.

Jonathan Foote, Visiting Instructor, month-long International Advanced Design Studio (*Prima Materia: the material imagination in fabric-formed concrete*), Bauhaus-Universität Weimar.

Jonathan Foote, Invited Critic, Marywood University (Scranton, PA)

Amy Gilley, Promoted to Associate Professor, Northern Virginia Community College (Annandale, Virginia).

Federica Goffi, Promoted to Assistant Professor with Tenure. Azrieli School of Architecture, Carleton University, Ottawa, CA.

**Student Accomplishments – Architecture and Design Research PhD program  
Architecture Track at the Washington-Alexandria Architecture Center (cont'd)**

Linda Heinrich, invited reviewer, Master's Thesis Defense, Carleton University (2011).

Mary Vaughan Johnson, GSAPP, COLUMBIA UNIVERSITY, in Paris and New York.

Mary Vaughan Johnson, Invited critic, SCHOOL OF ARCHITECTURE, UNIVERSITY OF ILLINOIS at Versailles.

Mary Vaughan Johnson, Invited critic, ILLINOIS INSTITUTE OF TECHNOLOGY, Paris.

Mary Vaughan Johnson, ASSOCIATION DE LA MAISON DE VERRE, Paris.

Mary Vaughan Johnson, The Catholic University of America, SCHOOL OF ARCHITECTURE AND PLANNING, Paris, France, Resident program director.

## Engagement | Outreach | Service

### University, College, and School Awards

The School of Architecture + Design 2011 **Excellence in Outreach Award** went to **Akshay Sharma**, Assistant Professor of Industrial Design.

The College of Architecture and Urban Studies **Outstanding Recent Alumnus Award**, presented by the Virginia Tech Alumni Association, went to **Brandon Craft** (Industrial Design, '05). Craft also delivered the keynote address for the College of Architecture and Urban Studies Spring Commencement Ceremony in Burruss Hall auditorium, May 14, 2011.

**Daniela Doninelli**, managing director of Virginia Tech's Center for European Studies and Architecture in Riva San Vitale, Switzerland, received the university's **2011 President's Award for Excellence**.

The following faculty members were honored for their service to Virginia Tech:

Prof. **Robert Dunay**: 35 years of service

Prof. **Dean Bork**: 30 years of service

Profs. **Mitzi Vernon** and **Paul Kelsch**: 15 years of service

Prof. **Joe Wheeler**: 10 years of service.

The Burchard Hall Shop staff – **Mark Leach, Noah Reiten, Jeff Snider, Matthew Tolbert** – received the College of Architecture and Urban Studies **Outstanding Staff Award**.

**Peggy Moles** received the School of Architecture + Design **Excellence in Staff Service Award**.

### National and Regional Outreach/Service Awards

**Humberto Rodríguez-Camilloni** was awarded a **Certificate of Recognition for High Standards of Service** on The Rice House Advisory Committee by the Science Museum of Virginia Foundation, April 30, 2011.

### International Engagement

**Designing empowerment** ([www.id4learning.com](http://www.id4learning.com)), led by Assistant Professor of Industrial Design **Akshay Sharma**, is an international outreach project directed toward economic development in India, focused on opportunities where design can play a more substantial role in improving the lives of those living at bottom of the pyramid. As part of this effort, Prof. Sharma recently completed a pilot project in rural India to develop an accounting system for micro-financing self-help groups (SHG) working with women entrepreneurs, designing a visual tool to overcome the literacy barrier. The visual tool eliminates the need for a group accountant to be present for every meeting, hence reducing the cost. Through an exploratory process, students created a number of solutions, tested them by creating a similar scenario in Blacksburg, and decided to pursue one solution that was then field-tested in India, where feedback from SHG members was collected. The group spent 18 days in India, understanding the workings of micro-financing self-help groups. Fifteen students were involved in the pilot project during the Spring semester of 2011, and eight students (5 from Industrial Design, 2 from Architecture, and 1 from Biology) traveled to India from Dec. 29, 2010 through January 26, 2011. Projects for next year are already underway, related to empowerment and the role of design as a catalyst. Three Industrial Design students, along with one graduate Architecture student and two Computer Science students, are working to develop a community learning device to be used in rural India, designing a tool for sharing and creation of knowledge in an informal setting, combining the portability of a tablet computer with interactivity of a fixed focus projector. A faculty member from Engineering Education and one from Human-Computer Interaction have recently joined the project team.

**Humanitarian Efforts in Laos:** Visiting Assistant Professor of Industrial Design **Larry Fenske** has developed a pilot program to evaluate the use of technology in rural school environments in Laos and has been investigating options to increase access to potable water in rural Laotian villages.

## International Engagement (cont'd)

**Design and Construction in Haiti:** Prof. **Hans Rott** developed a master-plan for a secondary school campus in Pignon, Haiti. In addition, he has been studying the failure of concrete block buildings in Haiti as a result of the 2010 earthquake, and he has been working to develop manufacturing and construction methods to promote more sound structures. In a parallel effort, Prof. Rott visited Haiti in March 2011 as part of a team from the College of Architecture and Urban Studies (with Dean **Jack Davis** and Prof. Christine Fiori, Building Construction) to look into the possibility of developing a curriculum for vocational education in construction there, in collaboration with the international organization Partners in Health (PIH).

## Exhibitions

In June 2010, the Virginia Tech **LumenHAUS** was exhibited at the **Solar Decathlon Europe** in Madrid, Spain. The LumenHAUS ultimately was declared the overall winner of the competition (see p. 8). Upon returning to the U.S., the LumenHAUS went on display on the **Virginia Tech Drillfield** in Blacksburg (Aug. – Nov., 2010), where it was filmed for the “ESPN Halftime Show” and profiled on the Cable News Network (CNN) (“Smart’ House Brews Your Coffee”). In Nov. 2010, the LumenHAUS was exhibited in **Millennium Park** in **Chicago, IL**, as part of GreenBuild 2010, which is billed as the world’s largest conference and expo dedicated to green buildings. The LumenHAUS is currently on display on the grounds of Mies van der Rohe’s **Farnsworth House** in Plano, Illinois (April-Aug., 2011), where the dual exhibit of the Lumenhaus and the Farnsworth House has brought a record number of visitors.

**Donna Dunay**, G.T. Ward Professor of Architecture and Chair, International Archive of Women in Architecture (IAWA), along with Associate Professor of Architecture **Kay Edge** are curating an exhibition in Tokyo, Japan entitled, “**For the Future: Pioneering Women in Architecture from Japan and Beyond**” exhibiting the work of women architects from Japan and the USA and including work from the IAWA. The exhibition features some of the work presented in the exhibition “Glass Ceilings: Highlights from the International Archive of Women in Architecture” at the Virginia Center for Architecture in Richmond, Virginia, March 4th through June 6th, 2010.

Design proposals for a future passenger rail station in Roanoke, VA, developed by students in Prof. **Scott Gartner’s** M.Arch. studio, were featured in an exhibition entitled, “**21 Designs: A Passenger Station for Roanoke**,” in the atrium at the Center in the Square, Roanoke, Virginia, Feb. 15 – April 1, 2011.

**Laurel McSherry**, with a team of 13 graduate Landscape Architecture students, participated in the **Nest Project Exhibition**, Alexandria, Virginia, an invited exhibition sponsored by The Target Gallery of the Torpedo Factory. Over the course of three weeks, the team worked to construct a site installation in Freedom Park along Alexandria’s waterfront in preparation for a month-long open-air exhibition from April 10 through May 15, 2011.

**Susan Piedmont-Palladino** served as an advisor for the **Green Exhibition Project**, Oregon Museum of Science and Industry (OMSI).

## Engagement with Visiting Scholars

During the Fall semester of 2010, the Landscape Architecture Program hosted Dr. Dong-Ha Oh of the Busan Development Institute, Busanjin-gu, Busan, Korea, who has been conducting research on ecological management using remote sensing and GIS (hosted by Dr. Mintai Kim), Mr. Sun Junqiao of the College of Arts at Chongqing University in Chongqing, People’s Republic of China, who has been conducting independent research on urban ecology, and Professor Hua Liu of the Department of Environmental Art and Design, Zhejiang Gongshang University, Hangzhou, Zhejiang Province, China, who has been conducting research on using plants to perform natural system services in urban environments (hosted by Prof. Dean Bork). Prof. Hua Liu continued as a Visiting Scholar through the Spring semester 2011.

## **National and Regional Service to the Professions**

**Lisa Tucker**, Associate Professor of Interior Design has been elected President of the **Interior Design Educators Council (IDEC)** for 2011-2012. For the past year, she has served as an IDEC International Board of Directors Member, in charge of overseeing all research publications, proceedings, and conferences on behalf of IDEC, and as Scholarship Director, liaison between staff scholarship co-coordinators and the IDEC International Board as the Board Member in charge of the Scholarship Collaborative.

**Terry L. Clements**, associate professor of landscape architecture, served as first vice-president of the **Council of Educators of Landscape Architecture (CELA)** through Dec. 2010, when she assumed the office of President. The CELA is composed of programs of landscape architecture in the United States, Canada, Australia, and New Zealand. Prof. Clements was responsible for conducting an annual review and update of the CELA strategic plan, presenting priorities and initiatives for the upcoming year to the executive committee, and coordinating with the treasurer on the budget for these initiatives.

**Mehdi Setareh** is a member of the American Institute of Steel Construction (AISC), the Education Committee of the Architectural Engineering Institute, the American Society of Engineering Education, the American Society of Civil Engineers, and the Society of Experimental Mechanics.

Prof. **Ed Dorsa** served on the **Commission for Accreditation** of the National Association of Schools of Art and Design (NASAD).

Prof. **Donna Dunay** served as the Chair of the visiting team from the **National Architectural Accrediting Board (NAAB)** at New York Institute of Technology (NYIT).

Prof. **Donna Dunay** served as a member of the **Honors Committee** of the Virginia Society of the American Institute of Architects (AIA).

Prof. **Donna Dunay** served as a member of the **Education Committee** for the 2010 Annual Convention of the American Institute of Architects (AIA).

Professor **Robert Dunay** served on the organizing committee for **Design Forum 2010**, sponsored by the Virginia Society of the American Institute of Architects.

**Brian Katen** served as a member of the Historic Preservation Interest Group of the American Society of Landscape Architects (ASLA).

Prof. **Joseph Wheeler** served as a board member of the Blue Ridge Chapter of the **American Institute of Architects (AIA)**.

Prof. **Robert Dunay** served as a board member of the Blue Ridge Chapter of the **American Institute of Architects (AIA)**.

## **National and Regional Engagement between the Academy and the Professions**

On Feb. 28, 2011, the School of Architecture + Design hosted its fifth **Career Day**. It was held at The Inn at Virginia Tech and Skelton Conference Center on the Virginia Tech main campus in Blacksburg, VA. 28 firms participated in the one-day event.

## **Membership on Local and Regional Boards and Advisory Committees**

**Kathryn Albright** served as a member of the **Creative Corridors Coalition Selection Committee**, Winston-Salem, NC.

**Kathryn Albright** served as Treasurer and Board member of the **Friends of the Farmers' Market**, Blacksburg, VA.

**Donna Dunay** served as chair of the Historic Overlay Committee, as a member of the Townscape Committee, and as a member of the Downtown Revitalization Committee for the **Town of Blacksburg**, VA.



## Membership on Local and Regional Boards and Advisory Committees (cont'd)

**Elizabeth Grant** served as a member of the Renewable Energy Focus Group for the **Climate Action Plan** for the Town of Blacksburg, VA.

**Humberto Rodríguez-Camilloni** served on the Committee to select the Society of Architectural Historians Edilia and Auguste de **Montequin Fellowship for Distinguished Scholarship** in Iberian and Latin American Architecture and Urbanism, 2010-11.

Profs. **Robert Schubert** (chair), **Bert Rodriguez**, and **Chris Fultz** served on the Advisory Committee for the restoration of Richard Neutra's **Rice House** in Richmond, VA.

**Martha Sullivan** served as a member of the Education Committee for the **Jacksonville Center for the Arts**, Floyd, VA.

**Greg Tew** served as a member of the Town of **Blacksburg Planning Commission**

## Architect Registration Examination Seminars

Assoc. Professor **Michael Ermann** developed and conducted a series of intensive 30-hour seminars on Building Systems to help prepare interns for the Architect Registration Examination (ARE). The seminars were delivered in Alexandria, with 7 participants, and in New York (co-sponsored by Virginia Tech and AIA New York) with 30+ participants, May 2011.

Professor **Mehdi Setareh** presented series of seminars to help prepare interns for the structures portions of the Architect Registration Examination (ARE). The seminar was delivered in Sept. 2010 at the Washington-Alexandria Architecture Center, Virginia Tech. These seminars also provided continuing education credits for practicing architects.

## Sponsored Studios 2010-2011

**SFCS Sponsored Studio on Senior Living:** Sherertz Franklin Crawford Shaffner (SFCS) is a full-service architectural, engineering, planning and interior design firm with offices in Roanoke, VA and Charlotte, NC with specialized experience in Senior Living, Higher Education and Civic and Public Buildings. In the Spring of 2011, SFCS partnered with thirty-four, 3<sup>rd</sup> year Industrial Design students (IDS 3016 Industrial Design Studio) under the direction of Profs. Ed Dorsa and Akshay Sharma. Nine student teams presented their research work at the 'By Design' Conference hosted by SFCS at the Hotel Roanoke. Staff and principals from SFCS visited VT on three occasions to participate in project reviews. The first place team (Aric McCosh, Reid Schlegel, and Connie Tran) was selected to receive the SFCS Senior Living Studio Award (\$1000 for the team) and another team (Olivia Ford, Susie Hogan, Lee Walker, and Jim Weer) received an Honorable Mention (\$400 for the team.)

This year's **Mark Boone Sponsored Studio** focused on designs for New York apartments. The studio was taught by Greg Tew. First Place went to Alexa Anderson, and Second and Third Place went to Anna Judge and Morgan Thorne, respectively. Eva Cohen received an Honorable Mention.

**KEM Sponsored Studio:** The KEM collaborative studio took place January 14-20<sup>th</sup>, 2011. Architecture, Industrial Design, Interior Design, Graphic Design, and Landscape Architecture students all worked together in collaborative groups to complete three projects in the span of seven days.

**Eastman Chemical:** Ed Dorsa taught a collaborative packaging design studio sponsored by Eastman Chemical, Kingsport, TN, in conjunction with School of Visual Arts Assistant Professor Somiah Muslimani. Eight Industrial Design and sixteen Graphic Design students participated in rebranding and repackaging a product, Spring 2011.

**Chesapeake Bay Foundation (CBF) Design Competition:** competition with six A+D studios (approx. 100 students in landscape architecture and architecture in Blacksburg and at the Washington-Alexandria Architecture Center). The competition was coordinated by Prof. Michael Ermann. A book of the winners' work was published for the CBF.

## Sponsored Studios 2010-2011 (cont'd)

**Farmers' Market, Covington, VA:** Over the 2010-11 academic year, in partnership with a local non-profit organization, Keith and Marie Zawistowski led a 3<sup>rd</sup>-year undergraduate architecture studio in a design/build project to develop a schematic design a Farmers' Market pavilion structure and park for Covington, VA, deconstruct a hundred-year-old warehouse for repurposing of its materials, pre-fabricate the building components for the market pavilion, and assemble them on the site. The project was funded by in-kind material donations and a grant from the Alleghany Foundation.

## National/Regional Service Engagement

Profs. **Dean Bork**, **David McGill**, **Patrick Miller** and **Donna Dunay**, with a group of second year students, performed a Site Design Charrette for the **Blacksburg YMCA**.

**Terry Clements**, Associate Professor of Landscape Architecture, served as an invited faculty member for "greening the **US Mission to the United Nations**," a two-week design charrette sponsored by the US State Department and the ASLA, August 2010.

**Laurel McSherry**, Associate Professor of Landscape Architecture at the Washington-Alexandria Architecture Center, organized and supervised a group of VT graduate landscape architecture student volunteers on a day-long community service / community gardening project at the LeDray Senior Housing, Alexandria, VA coordinated with **City of Alexandria Community Service Day**, May 6, 2011

**Patrick Miller**, Professor of Landscape Architecture, worked with students on an outreach project to design **streetscapes in Troutville**, Virginia.

## Engagement with Visiting Professionals

**Visiting Lecturers, Alumni Lecture Series, Fall 2010** – The School of Architecture + Design hosted the following alumni who have distinguished themselves in the architecture and design professions:

Sept. 2	Doug Pierson, (fer) Studio
Sept. 9	Steve and Cathi House, House + House
Sept. 9	David Wagner, Wagner Murray Architects
Sept. 30	Ron Faleide, Faleide Architects
Oct. 14	Nicholas Leahy, Perkins Eastman
Oct. 21	Halil Dolan & Christian Kienapfel, Paravant Architektur
Oct. 28	Rebecca Chestnutt, Chestnutt_Niess
Nov. 4	Jeremy Barbour, Tacklebox
Nov. 11	Nasser Abulhasan and Joaquin Perez-Goicoechea, AGi Architects

**Visiting Lecturers, Spring 2011** – The School of Architecture + Design hosted the following nationally and internationally prominent architects and designers:

Feb. 2	Valerio Olgiati, Architect
Feb. 9	Tucker Viemeister, Rockwell Group LAB
Feb. 15	Richard Wilson, SOM, Chicago
Feb. 17	Susannah Drake, Dlandstudio
Mar. 3	Carsten Roth, Carsten Roth Architekt
Mar. 16	Suzanne Lovell, Suzanne Lovell, Inc.
Mar. 24	Fuensanta Nieto and Enrique Sobejano, Nieto Sobejano Arquitectos (Art of Building Lecture)
Mar. 29	Gordon Gill, Adrian Smith + Gordon Gill
Mar. 30	Allison Williams, Perkins + Will
Apr. 6	Mikko Heikkinen, Heikkinen-Komonen Architects
Apr. 7	Diébédo Francis Kéré, Kéré Architecture

In addition to delivering public lectures, most of these visitors participated in design studio reviews and seminar-format discussions with students.

### **Outreach Presentations**

Albright, Kathryn. Lecture: "Why Right Brainers will Rule the Future". Women in Architecture and Upstate SC AIA, Greenville, SC, March 16, 2011

Clark, David, guest speaker, Roanoke Community Partnership

Piedmont-Palladino, Susan. "Intelligent Cities," Gensler, Washington, DC.

Wheeler, Joe. "The Virginia Tech LumenHAUS," Science Museum of Virginia Lecture Series: Lunch Break Science, Richmond, Va. August 2010

Wheeler, Joe. "LumenHAUS ," Optimist Club, Belle View Country Club, Washington DC, August 2010

Wheeler, Joe. "The VT Lumenhaus ," Kipps Elementary, 300 Students, Ware Lab Tour, Virginia Tech, Spring, 2011

### **Outreach Publications**

Albright, Kathryn. *Blacksburg Famers Market: An Archive*, event publication, 84 pp, May 2010.

Grant E., "Green roof research gets off the ground", *New River Valley Current*, November 2, 2010, at <http://www.roanoke.com/news/nrv/business/wb/265956>; and *Blue Ridge Business Journal*, October 27, 2010, posted by Michelle Skeen, at <http://blogs.bizjournal.com/ticker/2010/10/27/virginia-tech-begins-green-roof-research/>.

Grant, E., "Virginia Tech begins green roof research project", *Blue Ridge Business Journal*, August 2, 2010, at <http://blogs.bizjournal.com/ticker/2010/08/02/virginia-tech-begins-greenroof-research-project/>.

Grant, E. "All Summer in a Day", *Inside Higher Ed*, July 1, 2010, at <http://www.insidehighered.com/views/2010/07/01/grant>.

Grant, E., "VT students tour high-efficiency homes" *New River Valley Current*, May 25, 2010, at <http://www.roanoke.com/news/nrv/business/wb/247963>.

Grant, E., "Green Valley Builders Hosts Virginia Tech students", *Blue Ridge Business Journal*, May 5, 2010, posted by Michelle Skeen, at <http://blogs.bizjournal.com/ticker/2010/05/05/green-valley-builders-hosts-virginia-techstudents/>.

## Diversity

In Summer 2010, the school sponsored one minority student, **Darnell Parker** (a fifth year architecture student), in the **Multicultural Academic Opportunities Program (MAOP)**. Parker, mentored by Professor William Galloway, researched the relationship between drawing and building through the work of architect Carlo Scarpa.

The School continued to provide support for the Virginia Tech Chapter of the **National Organization of Minority Architecture Students (NOMAS)**.

**Akshay Sharma**, Assistant Professor of Industrial Design, and **C.L. Bohannon**, PhD student in Landscape Architecture, were both recognized by the College of Architecture and Urban Studies Honorifics Committee with **Diversity Achievement Awards** for their exemplary contributions to the College's diversity programs.

The **International Archive of Women in Architecture (IAWA)** is a center within the School of Architecture + Design. The mission of the IAWA is to document the history of women's involvement in architecture, interior and industrial design, landscape architecture, urban design and planning, architectural history and criticism, and the records of women's professional organizations. Prof. Donna Dunay, serves as Chair of the IAWA Board of Directors and Director of the IAWA Center; Prof. Helene Renard serves as Secretary, and Prof. Kay Edge serves as Treasurer.