Environmental Design
Fall 2015 Newsletter

Be engaged.

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There are few places better than CU-Boulder to study myriad aspects of the environment—be it environmental sciences, studies or policy. The drive to add DESIGN to that mix guided university efforts in 2012 to wholly situate our Environmental Design Program (administratively and fiscally) on the Boulder campus. Aligning with the signature environmental strengths of CU-Boulder has been a focus of program activities for the past three years. As the new director of the ENVD Program, I am pleased to further prioritize this agenda. Our aim is to ensure a distinctive design program with unparalleled quality that best encapsulates the changing nature of society’s challenges.

The design professions are also in the midst of exciting changes; in response, the educational mission of ENVD is driven to understand the new fundamentals of integrative and sustainable design thinking. Influenced by the advice of the ancient Roman architect Vitruvius on the education of the architect—our students engage with a broad range of subjects in the humanities, sciences, and social sciences. We do this to understand the gravity of the challenges society faces and the contribution designers can make to address such challenges. Our faculty take pride in pushing forth the frontiers of design research and practice in order to train our students to design sustainable buildings, neighborhoods, cities and regions. We will continue to foster an innovative interdisciplinary education to prepare students for practice and advanced study in the fields of architecture, landscape architecture and planning, as well as apply design thinking to a variety of other possible careers.

Being part of a world-class, comprehensive university allows us to strategically advance these goals. One critical advantage we aim to leverage is our ability to embrace a broader approach to environmental design—one that is steeped in skills-based training in architecture, landscape architecture, and planning—and also advances elements of sustainability, design, and trans-disciplinary thinking.

This exciting landscape is a contributing force behind CU-Boulder’s support to land the most outstanding scholars and designers to help shape the next generation of our professions. We are recruiting—on a fully international level—two new tenured/tenure track faculty positions within the ENVD Program. We are seeking faculty who are driven to integrate knowledge of sustainable solutions for the built and natural environment with holistic design thinking; we welcome your help in doing so. Please refer interested candidates to our job ad in this newsletter or to the ENVD program website.

Thank you for your continued or renewed interest in the program and I hope you enjoy reading about our accomplishments in the following pages. Should you be interested, be on the lookout for additional opportunities to further engage with us. We are always excited to hear your thoughts on how we can best serve our students and your professions.

All the best,

Kevin J. Krizek
Professor and Director
New Faculty Hire

The ENVD Program is happy to announce that Shawhin Roudbari (above right) has joined our faculty as an assistant professor. Shawhin completed his PhD in Architecture from the College of Environmental Design at the University of California Berkeley in 2013; he also holds two master’s degrees. In 2010 he received a Master of Science in Architecture from the College of Environmental Design at the University of California Berkeley and in 2004 he received a Master of Science in Civil and Environmental Engineering from Cornell University. Shawhin has previously served as a visiting assistant professor in ENVD since 2013.

Shawhin extends his interdisciplinary background in engineering, the social sciences, and critical studies in environmental design to his research and teaching. He exposes environmental design students to a diversity of design and research paradigms with the aim of making them more critical, curious, and innovative thinkers and designers. In his own words, he “empowers ENVD students with new perspectives on the role of design and planning in the context of globalization, social justice, and the impact that their work can have in challenging the boundaries set by traditional environmental design institutions.”

New Faculty Search

ENVD is currently recruiting two faculty (tenured/tenure–track) in Environmental Design: one at the Assistant Professor level and one at either the Assistant or Associate level. Both positions are expected to begin in August 2016.

The selected candidates will be expected to teach undergraduate environmental design studio, lecture, and seminars. Candidates should demonstrate national leadership in their area of research and be committed to spearheading the next generation of Environmental Design by integrating knowledge of sustainable solutions for the built and natural environment with holistic design thinking.

Review of applications will begin on November 10, 2015 and continue until the positions are filled; the job description is on the ENVD website.
Michael Carruth

Third year ENVD student Michael Carruth has been going above and beyond his required ENVD coursework by researching and designing a vertical axis wind turbine under the guidance of instructor Justin Bellucci. Michael says, “The inspiration for the Vertical-Axis Sail-Turbine (VAST) ultimately comes from a need to improve people’s lives and our relationship with the environment. Renewable energy is a resource that must be exploited in order to cut global carbon emissions and hopefully stabilize the climate.”

In 2014 Michael received a $1,000 Undergraduate Research Opportunities Program grant for preliminary research and a feasibility study, which resulted in a prototype that proves the concept of its design. In September of 2015 he received an $11,000 grant from the CU Environmental Center, which will support a collaboration with seniors in Mechanical Engineering to refine the design and create a production scale prototype.

Honors Program Graduates

For the first time in the program’s history, ENVD accepted students into a new Departmental Honors program in 2014. Spearheaded by Visiting Assistant Professor Georgia Lindsay (center image, far right), the program allows students with an overall GPA of 3.3 or higher to propose a project to work on in their senior year of study. Accepted students are required to enroll in an advanced research methods class and an independent study on honors thesis writing. They present and defend their thesis to a committee of three faculty. The projects may be either research or design oriented.

The first to receive Latin Honors in ENVD, graduating summa cum laude were Erin Hauer and Adam Meis and graduating magna cum laude were Margaret Fryke, Sung Han, Elizabeth Seaver and James Watt.
Alumnus - Richard Mapes

Recent ENVD graduate Richard Mapes is one of ten CU-Boulder students or alumni to receive a Fulbright award this academic year. Richard received a 9 month research grant which will allow him to study at the Israel Institute of Technology in Haifa. He will work with faculty as well as professionals in development, entrepreneurship, government agencies and NGO’s that focus on security and urban resiliency and vibrancy to research the fortification of pre-1980 residences.

As his professional interests have been oriented toward research practices in design and partnerships with research driven NGOs, universities, and non-profits, his Fulbright will be a practical step in promoting contextually responsive approaches to smart growth.

Read more about CU-Boulder’s Fulbright Award winners [here](#).

Instructors - Kimberly Drennan and Justin Belucci

Almonds, sunflowers, canola, grapes, sweet cherries, and avocados are a few of the crops that are dependent on pollination by the honeybee. Right now, honeybees are facing devastating population loss. Joining the concern of the USDA and White House Pollinator Health Task Force over this, faculty and students in the Environmental Design program are figuring out ways in which design can help.

ENVD Instructors [Justin Bellucci](#), a Building Systems Engineer, and Architect [Kimberly Drennan](#) have been working with ENVD students and CU-Boulder Evolutionary Biologist Chelsea Cook to design solutions that impact the health of honeybees as they travel across the country to pollinate our crops. The team has recently been awarded over $68,500 in grant funding from various entities on campus that support sustainability – the CU-Boulder’s Environmental Center, Office of Outreach and Engagement, and LearnMoreAboutClimate.org. These grants will support the team in designing a new and innovative hive architecture. Our students will have a direct and long term learning opportunity through the interdisciplinary design curriculum created to support this research.
Instructor - Marianne Holbert

Instructor Marianne Holbert, AIA was selected as one of six faculty in a campus-wide competition for CU-Boulder’s Seed Grant Program for Innovative Teaching in the Environment and Sustainability. Marianne has been teaching in the ENVD program since 2009, specializing in courses engaging net-zero design, community partnerships, full-scale fabrications, dinner colloquia and more. The aim of the teaching program is to co-develop educational experiences which expand CU-Boulder’s efforts in teaching topics of environment and sustainability. This group of teaching scholars will collaborate across disciplines to create an intrepid academic model for undergraduate or graduate students. New courses will be integrated into existing and newly formed degree programs, further establishing Boulder as a national leader in sustainability education and research.

Drawing on Marianne’s experience with interdisciplinary collaborative academic models for engaging students in reality-based problems, she offers a unique perspective to the group. Her previous teaching integrating neighborhood master planning, disaster recovery, high-performance building and fabrication exercises, offer exciting opportunities for curriculum development and educational pedagogy.

Senior Instructor - Tori Derr

“Which is more important? Money or nature?” These words, from an 11-year-old reflecting on Boulder’s resilience, demonstrate just one of the many ways Growing Up Boulder facilitates meaningful youth participation in urban planning and design. Growing Up Boulder (GUB) accomplishes its work through a partnership between the City of Boulder, Boulder Valley School District, and University of Colorado. Through this initiative, Coordinator Mara Mintzer and Senior Instructor Tori Derr have connected more than 2,000 of Boulder’s young people, and hundreds of undergraduates, with city leaders in contemporary urban design issues. In 2014, when Boulder became part of the Rockefeller Foundation’s 100 Resilient Cities Network, GUB was perfectly situated to help youth perspectives advance resilience planning efforts and to further integrate this work into city planning and university courses.

Tori and GUB recently won a research award to support simultaneous efforts between children in Boulder and Mexico City, in partnership with the Autonomous University of Mexico. This opportunity emerged from researchers in two Rockefeller Foundation network cities who are interested in integrating children’s perspectives into the planning and design of the city. Children will develop recommendations for city leaders by mapping and photographing assets and vulnerabilities within children’s neighborhoods, and digitally sharing ideas between children of the two cities.
Thank you for giving!

The Program in Environmental Design’s goal is to prepare students to be creative critical thinkers and passionate problem solvers who embrace real world problems by using design, visual communication, and technology. The Program in Environmental Design offers majors in architecture, planning, landscape architecture, and design studies.

ENVD students are leaders that have a profound influence on community, environment and society. Your contributions enable our program and our students to create and do extraordinary things. Please consider giving a gift to ENVD and make an impact. We are grateful for the alumni, parents, families, firms, and community members that support and provide resources for our students.

The Program in Environmental Design Fund

This Program in Environmental Design Fund is a fund for academic support for students in ways in which the program determines. These funds are used for the following purposes:

- Attracting the brightest and best students in Colorado
- Creating more opportunities for undergraduate research and experiential learning
- Cultivating diversity and higher achieving students with additional need and merit based scholarships
- Increasing student retention, satisfaction, and graduation rates
- Supporting students on CU global seminar and CU study abroad programs
- Acknowledging students for their hard work and dedication to the ENVD Program

Undergraduate Scholarship Programs:

**Charles Haertling Scholarship Fund**
The Charles Haertling Scholarship was established “to perpetuate the memory of Charles A. Haertling, AIA, Architect, and to reaffirm the human ideals in the arts and design and the spirit of community service that his life exemplified.” This scholarship is based on talent, potential, and academic achievement, as well as, relative financial need. This award is split with the College of Music each year and supports one student with an approximately $500 award.

**Dana Giffin Soper Memorial Scholarship**
The Dana Giffin Soper Memorial Scholarship is in memory of Dana Giffin Soper, a former ENVD student. His parents wanted to provide a scholarship to a current undergraduate student in the Environmental Design Program on the “basis of proven academic performance, personality and character, contribution to the program, and professional potential.” The program will offer one or two scholarships to a second year student entering third year. The award ranges from $2500-$5000.
D.J. Hynek Memorial Scholarship
The D.J. Hynek Memorial Scholarship is awarded to a student in the Environmental Design Program at the University of Colorado Boulder in memory of D.J. Hynek, an architecture major, BEnvd 2000. This fund “was established to honor D.J. Hynek’s life by assisting other students who have been confronted with personal hardships attain their educational dreams at an institution D.J. found so meaningful and supportive of his intellectual interest and career ambitions.” The award varies from $1,500 - $3,000.
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Douglas Darden Memorial Scholarship
Douglas Darden was a highly gifted and internationally recognized architect and teacher. He was faculty at the University of Colorado. His parents established the Douglas Darden Memorial Scholarship in 1996 after he passed away from leukemia. This scholarship is awarded to a Colorado student who shows great academic promise, academic merit, and shows financial need. It is awarded to an undergraduate student in Environmental Design at the University of Colorado Boulder. The amount of this scholarship ranges from $1500-$2000.
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Hideo Sasaki Scholarship in Interdisciplinary Design
The Hideo Sasaki Scholarship in Interdisciplinary Design benefits an outstanding undergraduate student entering his/her final year in Architecture, Landscape Architecture, Planning, Urban Design or Environmental Design. This scholarship was established by the University’s Board of Regents to honor Hideo Sasaki, “with gratitude and affection, both to honor this extraordinary teacher and practitioner and to inspire future generations of student in architecture and planning to higher levels of achievement.” The ENVD Program offers one award in the amount of $1000-$1500.
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Lynn M. Lickteig Photography Award
The Lynn M. Lickteig Photography Award was established to honor staff member Lynn M. Lickteig for 30 years of contributions, guidance, and commitment to the visual record and dedication to and willingness to go above and beyond on behalf of ENVD students. One award of $500 is given annually via a juried process for an outstanding photograph taken by an undergraduate student enrolled full time in the Program in Environmental Design at CU-Boulder. Please specify “Lynn M. Lickteig Photography Award” in the Comments field when donating.
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Marcia Miller Memorial Scholarship
The Marcia Miller Memorial Scholarship was created to provide a scholarship for a married student with demonstrated financial need in the Environmental Design Program at the University of Colorado Boulder. The award is one scholarship that ranges from $500-$1000.
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Martin Luther King, Jr. Housing Prize Scholarship
The Martin Luther King, Jr. Housing Prize Scholarship provides annual scholarships to undergraduate Environmental Design students at the University of Colorado Boulder. The scholarship is “known as the Martin Luther King, Jr. Housing Prize in order to perpetuate the memorial to Dr. Martin Luther King, Jr. and to encourage a continuing concern for sheltering low and moderate income people.”
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Richard L. Crowther Memorial Award
The Richard L. Crowther Memorial Scholarship is a scholarship “for research for students with an interest in environmental architecture, sustainable building; solar energy; energy conservation or therapeutic architecture.” Up to two students may receive this award. It ranges from $1000-$1500.
GIVE NOW
Jade Polizzi’s Lama Foundation PRAXIS Studio
For more information on this project and other ENVD projects, please visit our website Portfolio.