

The following newsletter has been created to engage with those passionate about humanitarian engineering by providing information and resources to our subscribers. This issue highlights key events, projects, and opportunities for involvement all related to humanitarian engineering at Mines and around the world.

Upcoming Guest Lectures

Building Your Career in Humanitarian Engineering

When: Tuesday, April 10th, 2pm-3pm

Where: BBW 280

The HE program in partnership with the career center has put together a panel of people working in humanitarian engineering jobs. Our panelists will give perspectives on how humanitarian engineering backgrounds are valued in industries such as oil and gas and mining, and how to build careers through the world of non-profits! Food and beverages will be provided, and all students are welcome and encouraged to attend.



Engaging and Co-Creating Solutions with Stakeholders

When: Thursday, April 12th, 12:30pm - 1:45pm

Where: AL 151

Diana Duarte is an engineering professor in Colombia and founder of [Distancia Cero](#) and [Retos](#). The class will be focused on learning how to engage with different stakeholders at different positions of power. She will facilitate a hands-on, role-playing workshop where students will be challenged to take different perspectives and occupy different positions of power.

HE @ Mines

Shultz Scholarship

Apply by: April 20th, 2018

These scholarships reward students enrolled in the Humanitarian Engineering program to serve as program ambassadors and to seek new opportunities for collaboration with faculty, alumni, corporations, and NGOs. It is an incredible opportunity for students to help improve the HE program experience, and get more involved with humanitarian engineering outside of the classroom. The scholarship program covers two to four students for approximately \$8,500 per semester. Applications can be submitted to Dr. Lucena by email. For more information about the scholarship and application requirements, see *attached document*.



LSR Alumni Interest Group



The Humanitarian Engineering Department and Alumni Association have partnered with HE alumni Ethan Faber and Nicole Hanson to create an alumni interest group in Leadership in Social Responsibility. This group is for Mines graduates (especially those who have taken HE courses) to connect after school by attending great events (in person or thru video calls) and networking with people that are also working in the field. Nicole and Ethan have been leaders in social responsibility since graduating from Mines and incorporating the education they gained from HE courses into their career. This group focuses on finding more alumni in industry that can share their stories of how they have also found a pathway to being leaders in social responsibility. To learn more about events

and other opportunities, we encourage everyone (even non-Mines-alumni) to join the group by filling out this online [form](#).

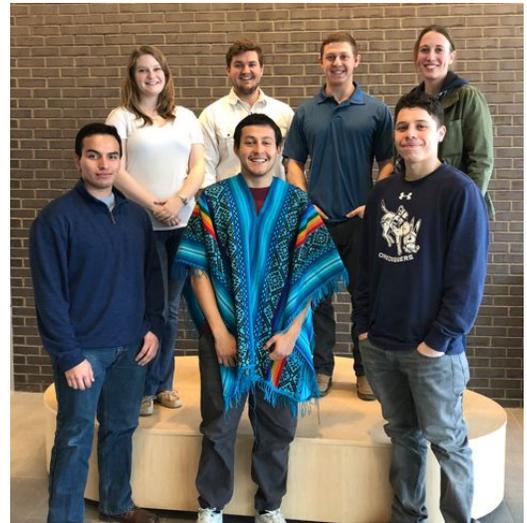
Household Heating in Peru

Averaging at below 40°F year round, home-heating is a major concern for rural Peruvian Highlands. After communicating with the community about their needs, Qhari Enterprises determined that technology alone would not be sufficient and home heating was a small part of larger community health concerns.

Focused on extreme affordability, local materials, and sustainability, this capstone team has designed a cook stove that doubles as a heat exchanger. Keeping costs below \$30, the design utilizes a single 55 gallon drum and local adobe, both readily available in the community. In addition to reducing solid fuel requirements and boiling water more quickly than traditional open fire, the simplicity of this design makes in country manufacture, installation, and maintenance an attainable goal. The impact of this design is improved by complimentary community health education and home improvement initiatives geared towards improved health literacy and economic development.

In addition to heating homes, we have carefully considered the impact this design will have on the social environment. The stove can be modified as a decor of the home, and with pilot households in the community serving as leaders and, we expect the project sustainability. Qhari has confidence that this solution is not only unique to Ayaviri, but has the potential of impacting communities around the world.

We are looking forward to sending a group of 4 to Peru the week after graduation to implement this project in the pilot households and facilitate several community education and engagement activities.



Front Range Events

MSU Humanitarian Engineering Symposium

When: Friday, April 20th, 2018 from 10am to 2pm

Where: Metropolitan State University

Metropolitan State University of Denver's Humanitarian Engineering Club is hosting a Humanitarian Engineering Symposium. This symposium will feature engineering clubs from all around the region, including several from the Colorado School of Mines. Food and beverage will be provided after the presentations.



Conference on World Affairs

When: April 9th-13th

Where: CU Boulder

The Conference on World Affairs is a free event, open to the public, featuring 200 panels and 100 speakers over the course of 5 days. Topics range from the refugee crisis, to climate change, to entrepreneurial success, to the pursuit of justice. No matter your interests, there is likely a speaker or panel out there for you! Students will receive priority seating at each event, so make sure to check out the schedule and take advantage of the opportunity to engage in incredible discussions and debates!



The Denver Design Charette: Globalism in Our Communities

When: Saturday, April 21st

Where: Posner Center, IEEE Global Classroom

This event brings together educators, community members, and students to tackle a globally-significant yet locally-relevant problem. Participants will gain tools, curriculum, and new skills that enable them to 1) teach and extend global citizenship in our local communities; and, 2) understand and act on issues of global significance. The cost for students is \$10 (\$35 non students) to cover lunch and materials.



Keep up to date with more through: [Posner Center Events Calendar](#)

Employment and Networking Opportunities

Get Connected



Engineering for Change

Is a knowledge organization dedicated to preparing the global workforce to deliver solutions that improve the quality of life of underserved communities. Join this community to learn about ongoing projects and involve yourself in opportunity to network with incredible organizations.



Devex International

Is a media platform for the global development community. Devex is the largest provider of recruiting and business development services for global development and work as a social enterprise to make the aid and development industry do more good for more people.



Drexel University - Peace Engineering

This program was built in partnership with the U.S. Institute of Peace's PeaceTech Lab and will prepare students to engage in the peaceful resolutions of conflict by combining disciplines from engineering, the social dimensions of conflict, and the applied sciences. [Learn how to apply](#) and check out the [promo video!](#)

Our First Pick Job

Water and Habitat Engineer

As a Water and Habitat Engineer working for the ICRC, you will be responsible for the planning, design and implementation of engineering projects for victims of armed conflict. Working in a team, your tasks will include conducting needs assessments, surveying water and housing needs, negotiating with local authorities and firms regarding project implementation and handling all aspects of project management. To learn more and apply, search ID in DiggerNet and follow instructions.

DiggerNet ID: 60363



In The News

Sacramento's Movement to Equity and Livability

The city of Sacramento created a Climate Action Plan that focuses on creating appropriate infrastructure in the face of climate change. With these changes in infrastructure planning, cities like Sacramento also struggle to make land use and transit more equitable for all members of communities.

Abandoning Malls for Vertical Farms

Many malls across the United States are becoming abandoned. However, knocking down the structures could take decades, so instead this article proposes converting malls into vertical farms! Implementing these vertical farms would demonstrate how mixed use spaces can be synergistic. Building integrated agriculture would allow businesses to interact, keep dollars local, and cut shipping costs, all without increasing their carbon footprint.

New and Innovative Solution to Menstrual Hygiene

"Flo" is a newly designed period kit for women in the developing world. This odd looking contraption allows women to wash, dry, and store reusable menstrual pads! Flo was designed by a group of students from the Art Center College of Design in California and Yale Business School. The students are now trying to bring the product to market as a low-cost solution for these girls.

Humanitarian Engineering Newsletter

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