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

Lecture with Dr. Breanne Przestrzelski
When: March 6th, 3:30 - 4:30PM
Where: Marquez Hall Room 226, Colorado School of Mines
Breanne Przestrzelski, PhD, will lead attendees through a personal journey, sharing excerpts from her design background in bioengineering, learning experiences, and surfing, from which attendees will walk away with a greater understanding of how design applies to everyday life in unique ways.

Lecture with Julia Kramer
When: March 8th, 5 - 6pm
Where: Boettcher Room, Arthur Lakes Library, Colorado School of Mines
Julia Kramer, PhD candidate in Mechanical Engineering, will lead a discussion on exploring the need to better integrate equity and political thinking into design in order to reimagine design as a democratic and socially conscious practice. It will be focused on human centered design, a systematic approach where practitioners develop a deep understanding of stakeholders and use these insights to drive idea generation, iterative prototyping and implementation.

HE @ Mines

NSF Research Project: Artisanal Gold Mining in Colombia and Peru
The Colorado School of Mines received a five-year, $4 million National Science Foundation grant to tackle the public health and environmental challenges posed by artisanal and small-scale gold mining. The practice results in large-scale deforestation, air and water contamination, and chronic human diseases. A multidisciplinary team of professors, PhD candidates, and undergraduates lead by Dr. Lucena will work in collaboration with mining communities and universities in Colombia and Peru to develop socio technical solutions that make artisanal and small scale mining cleaner, safer, and more sustainable.
Capstone: Net Zero Housing for Fond du Lac Band of Lake Superior Chippewa

In February, the Net Zero Housing Senior Design team, the Sun Catchers, had the opportunity to travel to the Fond du Lac Band reservation in Northern Minnesota to meet with community members and their energy department. The goal of the trip was to better understand the cultural context of the tribal members the homes are being designed for. The Sun Catchers learned their project will be important to economically empowering lower income tribal members that can spend up to half of their annual income heating their homes in the winter months. They had many great discussions about future steps that should be taken including how to educate future residents on monitoring and maintaining the energy balance of their solar powered homes. The tribe’s many ongoing energy and environmental projects, like their innovative biodigester, show a commitment to lowering their carbon footprint and dependence on fossil fuels. Visiting the museum and talking with tribal members reminded the Sun Catchers of the historical injustices tribes have faced and still are still facing today, but even with that adversity beautiful parts of their culture have persisted through passing them down through their families. For the Fond du Lac Band, the harvesting of wild rice in canoes from Minnesota lakes is an important tradition the capstone team learned about and received gifts of wild rice from the tribe during their visit.

Front Range Events

2018 Martz Spring Symposium and Debate

When: March 21st, 8:30AM-7:00PM
Where: University of Colorado School of Law Wolf Law Building, Wittemyer Courtroom

A diverse set of experts will address the consequences of new interpretations of environmental regulations at the federal level, associated litigation, and how Tribal, state and local governments, as well as market forces, are responding. The symposium will then be concluded with an Oxford-style debate, which is free and open to the public.
WaSH Symposium at CU Boulder
When: March 6 & March 7th, 8AM - 4PM
Where: CU SEEC, 4001 Discovery Drive, Boulder, CO 80303
The intent of the Colorado WASH Symposium is to provide a platform for sharing and expanding knowledge in the field of water, sanitation, and hygiene in the context of development. The symposium brings together leaders and WASH practitioners in social enterprises, the private sector, NGOs, academia, and development agencies.

Apply to attend the CGI U
When: October, 2018
Where: Chicago, Illinois
Deadline to Apply: March 16th, 2018 (early decision)
Each year, Clinton Global Initiative University (CGI U) hosts a meeting where students, university representatives, topic experts, and celebrities come together to discuss and develop innovative solutions to pressing global challenges. Students create their own Commitments to Action that address issues on campus, in local communities, or around the world.

Posner Center Presentation on Entrepreneurship in Pakistan
When: March 2nd, 2018, 4pm-5pm
Where: Posner Center, 1031 33rd St, Denver, CO 80205
Marshall Direct Fund and Alternative Project will be presenting their upcoming UN Commission on the Status of Women Panel event in Denver! Women in Pakistan have the lowest rate of entrepreneurism in the world – just 1%. How can we empower women to reach their social and economic potential through developing female entrepreneurs? Join us as we discuss how to move from 1% participation to 100% empowerment.
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.

Our First Pick Jobs

Engineering Fellowship for MFK

Meds & Food for Kids (MFK), a non-profit, operates a food processing facility, using electro-mechanical machinery, to produce Ready-to-use Therapeutic Food (RUTF), to treat severe acute malnutrition in Haiti’s children. This position’s primary goal is to develop, alongside Haitian technical staff, a sustainable preventative maintenance plan and risk reduction planning for the MFK food processing facility, for its production equipment as well as for its other systems. To learn more and apply, search ID in DiggerNet and follow instructions.

DiggerNet ID: 60096
In The News

Podcast: Puerto Rico and Disaster Capitalism
This podcast discusses Post-disaster relief efforts to rebuild and revitalize Puerto Rico. Elizabeth Yeampierre, an internationally recognized Puerto Rican attorney and environmental and climate justice leader discusses the disaster recovery efforts in Puerto Rico through grassroots initiatives.

Designing The Instagram of Money
A case study of the Moneythink project, that is helping students to overcome the challenge of overcoming the financial challenge of school, using a mobile app, the “Instagram for money.”

Made in Guatemala: Clean Water and Nutrition Technology in Central America
Discusses multiple technologies developed by Guatemalans to address issues in their country, written by a mechanical and industrial engineering student at Universidad del Valle in Guatemala.

Service Learning or Voluntourism?
Read more about one of the biggest threats engineers face when working in global development - opportunities to contribute to projects without the qualifications to do so.

Stay tuned, more to come!

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