



Cornell University

ENGINEERS WITHOUT BORDERS

Sponsorship Packet 2017



ABOUT THE TEAM

Engineers Without Borders-Cornell is a group of passionate and highly motivated students who aim to create long-lasting solutions to problems in international communities. Members are given the opportunity to nurture their creative and technical expertise by designing and implementing sustainable engineering projects. Through collaboration with communities in developing countries around the world, our members are exposed to diverse cultures while gaining academic experience outside of the classroom environment. Our growing team of 52 dedicated students includes undergraduate and graduate students from several of Cornell's colleges including the College of Engineering, the College of Arts and Sciences, and the College of Agriculture and Life Sciences. Our network also extends beyond Cornell's campus to over 250 EWB chapters.

11	52	12	60
areas of study	total active members	weeks spent abroad	% female members



LET'S TALK ABOUT WATER.



EWB-Cornell now
intends to address
Calcha's limited access
to *potable* water.

Over the past three years, we have focused on reducing water contamination, increasing quantity of potable water, and improving the quality and robustness of existing water systems in Bolivian community, Calcha. Since taking on this project, Calcha's local government has constructed a new water pump storage system in the town. Although the community members are now receiving an adequate supply of water, they have expressed concerns about maintaining the system. To alleviate this issue, we will be lining and covering the water channels, which will improve both the quality of the water and retention rate of the storage system. Additionally, members of the Calcha community are also concerned about the vulnerability of the spring box to erosion by the river.



▲ An aerial view of Calcha.

BUILDING BRIDGES



▲ Complete bridge made from Bolivian wood.



▲ Team member Anna Sofia Montoya-Olsson standing on the newly completed bridge.

Calcha, Bolivia 2014 - Present

Calcha, Bolivia is a small, Quechua community which lies along the Vitichi River. Calcha is predominantly an agricultural community. Unfortunately, between the months of November to March, Calcha faces heavy and prolonged rainfalls which cause dangerous currents and the flooding of the Vitichi River. During these months the Vitichi River becomes impassable, preventing farmers from accessing their crops, located on the other side of the river. In the last academic year, our team designed a suspended footbridge to allow for safe access across the Vitichi River. We used measurements from previous assessment trips along with applied knowledge from our engineering classes here at Cornell to develop accurate blueprints and models of the bridge. We then analyzed the structural integrity and cost of various materials to design a structure that was both stable and within a realistic budget.

BREAKING BORDERS



▲ Team members (left to right): Joseph, Meriel, Susan, Jonathan, Anna, Mario, Bethany, Nathalie, and Sam in traditional Calcha attire.

Once the design was approved by technical advisors from EWB-USA and Bridges to Prosperity, students from EWB-Cornell traveled to Calcha to implement the design of the bridge. In eight weeks, eight members of our team worked alongside locals to successfully construct a 51.4 meter pedestrian bridge. The footbridge benefits more than 200 people and increases the amount of workable land in the area by 80%, which is expected to have a very positive economic impact on Calcha. By living with the Calcha community for eight weeks, students engaged with the Bolivian culture, partaking in traditional festivals and dances put on by the community.

Recently, the bridge project has received recognition by Cornell University. The Cornell Chronicle and the Cornell Daily Sun, two of Cornell's newspapers, highlighted our work and the implementation trip. In addition, the College of Engineering will be using EWB-Cornell as an example of the opportunities that make Cornell an exceptional university. This means our success will be broadcast to the entire engineering prospect pool (approximately 60,000 high school seniors) this year.



▲ Professional engineer, Johann Zimmerman, and local community members surveying the land.



▲ Team car en route to Calcha, Bolivia.

LOOKING FORWARD

“ ENGINEERS WITHOUT BORDERS IS BUILDING A STRONG COMMUNITY AT CORNELL AND IMPACTING THE COMMUNITY ABROAD. ”

On future trips to Calcha, we plan on implementing the water project. We will also continue to work with the community and assess the condition of the bridge as it endures the effects of time and weather.

EWB-Cornell will be extending our reach to a new areas of the globe as we work to acquire new projects in...

UPALA, COSTA RICA



For our next project, we hope to begin a renewable energy project at a refugee center for women. Upala is a center of migrants and refugees in Central America, supporting many trans-border workers and families. In Upala, we would work with CENDEROS, a non-profit organization that provides housing and teaches agricultural skills to migrant families. Our team would design and provide a renewable energy source on CENDEROS' farm, for powering its buildings and producing agricultural products. The impact on this community will be substantial, as the farm would have a consistent source of electricity year-round.



KACHIENG, KENYA

In our upcoming years, we will be making a trip to Kachieng for a water supply and sanitation project. Currently, in Kachieng, women walk as far as 15 kilometers everyday, just to obtain an insufficient quantity of water. Furthermore, this water is unsanitary, as it is frequently used by various animals. To improve this situation, our team will engineer water pumps located close to the community, which will produce fresh and clean water. This project will impact approximately 15,000 community members and allow women to spend their time pursuing other activities such as attending school.

ITHACA, NEW YORK, USA



Homelessness is a persistent problem in Ithaca, and becomes especially problematic during the cold winters. Homeless shelters fill up quickly, and many cannot stay in a homeless shelter for a variety of reasons. Our project will be to construct portable shelters that can be used for flexible emergency shelters for the homeless community and a sustainable short-term housing alternative to assist locals. Due to the nearby location of this domestic project, our team will travel easily for the assessment and construction of the portable shelters.

CONTRIBUTE

Our achievements would not have been possible without our individuals donors and corporate sponsors like you. We truly appreciate everyone who has and continues to support our project.

Your gift will contribute towards:

- Helping our team build a sustainable solution to impact over 200 lives
- Bringing global engineering issues to the forefront of social consciousness
- Providing EWB members with life-altering, international experiences

Benefits for our sponsors include:

- Increased recruiting presence on campus and internationally with access to diverse members
- Increased visibility on campus with company logo displayed on all team apparel which will be worn on campus and internationally
- Recognition on the team website and semesterly newsletters sent to friends, families, alumni and other corporate sponsors
- Tax deductible contributions

THANK YOU 2016 SPONSORS



SPONSORSHIP LEVELS

Level 1: Platinum Sponsors (\$2,500+)

- Large recognition of company name on team apparel for international trips
- Exclusive recruiting opportunities and information sessions hosted by EWB-Cornell
- Premier placement on team banners, newsletters, and brochures
- Acknowledgement of your generous contribution on team website and social media with company name and logo

Level 2: Gold Sponsors (\$500 - \$2,500)

- Medium recognition of company name on team apparel for international trips
- Placement on team banners, newsletters, and brochures
- Acknowledgement of your generous contribution on team website and social media with company name

Level 3: Silver Sponsors (\$200-\$500)

- Placement on team banners, newsletters, and brochures
- Acknowledgement of your generous contribution on team website and social media with company name

Level 4: Bronze Sponsors (any amount below \$200)

- Acknowledgement of your generous contribution on team website and social media with company name



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