

ETHOS press release

April 2010

The School of Engineering at the University of Dayton will send more than 30 engineering and business interns to ten developing countries for a ten week service and immersion experience in summer 2010 through the ETHOS program.

Engineers in Technical and Humanitarian Opportunities of Service Learning (ETHOS), a student initiated curriculum developed in a senior-year Design Clinic in 2001 by a team led by Christine Vehar, is beginning its tenth year of providing a technical immersion experience for students traveling to Latin America, Africa and Asia. Business students have been included in the program to provide organizational assistance to communities starting small businesses using appropriate technologies as a base for small business development.

ETHOS placement **sites and rosters** are on an attached document.

See ETHOS web site for more information and photos: <http://ethos.udayton.edu/>

In summer 2010 engineering students will be traveling to **India, Bangladesh, Togo, Cameroon, Tanzania, Ethiopia, Malawi, Nicaragua, Guatemala, and Bolivia** where they will work for local technical organizations and be hosted by local families. Participants are enrolled in a special course during the present semester to prepare culturally, technically and personally for the experience.

Grad Assistant Mark Ewalt will travel to **Cameroon** for his fourth time along with Wyatt Elbin (civil engineering major from State College, PA) and Goef Holmes (civil engineering major from Greenville, OH) where the team will research opportunities for developing a new village water project to be based on experiences in Cameroon during the past three years which resulted in providing a water system for a very isolated village. For information about the previous project see

<http://news.udayton.edu/Publications/magazine>

In Bangladesh, student engineers Nathan Deutsch (civil and environmental engineering major from Franklin, TN) and Brock Glasco (mechanical engineering major from Guilford, IN) will continue research on the widespread problem of arsenic polluted drinking water begun by two ETHOS participants in summer 2009 under the direction of the Institute for Integrated Rural Development. For more see web site

<http://www.iird.interconnection.org/>

In La Paz, Bolivia, three ETHOS participants (Sarah Tenison, chemical engineer major from Venetia, Pa, Peter Doster, civil engineering major from Getzville, NY and Bryan Edmundson, mechanical engineer major from Wildwood, MO) will work with the Prolena organization to

research more efficient wood burning stoves to address the twin issues of indoor smoke pollution and over use of local forest resources. See <http://www.iird.interconnection.org/> for more background.

Grad Assistant Kevin Fisher will return to the village of Comitancillo, Guatemala with Laura Ebetino (chemical and environmental engineering major from Cincinnati, OH) and Franz Berkemeier (chemical and environmental engineering major from Jackson, Mi) to assist the local organization called AMMID in efforts to provide sanitary drinking water. See <http://www.sharingthedream.org/archives/ammid.htm>

A new non-profit organization founded and supported by University of Dayton students and graduates under the leadership of ETHOS intern, Scott Caltabiano who worked in Comitancillo last year, **Sustainable Aid Inc.** has the goal of providing funding for this and other ETHOS projects in the future.

Marianist communities in Togo, Malawi and India will be host ETHOS teams which will do research on how University of Dayton engineering students can cooperate with local development organizations to address appropriate technology solutions to water and energy issues. **Business students** Jeff Fahrenholz (finance major from Delaware, OH) and Callaghan Luby (international business major from Copley, OH) will travel to **Malawi** to work with University of Dayton volunteers with the Marianists in Karonga who work with MIRACLE, a local social service organization which is promoting micro-lending to develop small businesses.

In Togo, Marianist Brother Abraham Mewezino, a May 2010 University of Dayton graduate in Educational Leadership, will assist three students (Jose Illanos, international business major from Puerto Rico), Dominic Miller (civil engineering major from Cloverdale, OH) and Amy Sobnosky (civil engineering major from Wadsworth, OH) in following up on plans developed by two previous ETHOS teams to give technical support to the Marianist rural development project in Sotouboua.

In India, a new placement site, three students will be hosted by Brother August Surin, S.M., Director of the Chaminade Rural Development Project and will assist in water and energy development. The team includes Ritesh Nayyar, graduate engineering student from India, Beth Hinzman (mechanical engineering major from Cincinnati, OH) and Mark Abram (mechanical engineering major from St. Louis, MO).

Ethiopia is a new placement site for 2010. Three engineering students will work with a large development organization in research on more efficient wood burning stoves for cooking in a

locale where scarce firewood is becoming more and more unavailable. Two members of the team, Michael Naleid (engineering technology major from Milwaukee, WI) and Michael Braman (civil engineering major) have had previous ETHOS experience in stove research experience in Bolivia and India. They will be joined by Candida Crasto (chemical engineering major from Centerville, OH).

Five students will travel to Nicaragua to work with long-time ETHOS partners Grupo Fenix and Suni Solar where they will research and install solar systems and continue the development of a local business to produce and market solar cooking stoves and a solar autoclave developed in the past three years by ETHOS participants in the University of Dayton Design Clinic. For more see <http://www.grupofenix.org/>

and <http://www.saluddelsol.org/> <http://www.grupofenix.org/sunisolar.html>

Steven Brophy (manufacturing technology major from Coventry, RI) is being sponsored by ETHOS to travel with a group from his Christian Brothers High School for an immersion experience starting in Nairobi, Kenya and then traveling Christian Brothers missions in Tanzania.

Domestic placement: graduating senior Michael Voellmecke (civil engineering major) will serve at Bluerock Station, Ohio, and environment and energy research station which specializes in energy efficient construction. See <http://www.bluerockstation.com/>

for more contact

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