

ATC Fall 2010 Newsletter



Appropriate Technology Collaborative



ATC + Engineers Without Borders Rutgers University



Nueva Santa Catarina
Ixtahuacan

Approximately 4,000 residents of Mayan descent live in this isolated town, located in the Western Highlands of Guatemala. The town was originally located 20km from where it is now, but residents had to be relocated after Hurricane Mitch destroyed almost three-fourths of what is now called **Antigua** Santa Catarina Ixtahuacan.

In the new village a water system has been in place for years, but only works sporadically—residents are lucky to receive 30 minutes of

More Info: [Water Ixtahuacan](#)

[Check Out Our Website - Lots of New Material!](#)

ATC - Year End Celebration!

Help us celebrate new projects, new partners and new technologies that will improve life for the "other 90%". Our Year End Celebration and Fundraiser will be at the Hathaway's Hideaway on Sunday December 5th starting at 3:00 PM to 6:00 PM. [Sign Up Here](#), or at: [Eventbrite](#)

Our last get together was fun, informative and full of interesting people. Our Year End Celebration should be even better! Hear about our latest work in Guatemala and Nicaragua. Find out how we are hybridizing Appropriate Technology and Biomedical Engineering. We will demonstrate some of our new designs and preview our work in progress.

If you can't make our fundraiser, please consider making a donation online.

ATC is a charitable 501(c)(3) organization, donations are tax deductible.

You can donate online by clicking on the button below.



You can also donate by mail:

The Appropriate Technology Collaborative

1100 North Main Street, Suite 107

Ann Arbor, MI 48104

“Not only is it a rewarding experience helping others that are less fortunate, but it is also an amazing learning experience”

“As University of Michigan students, [this trip] gives us a chance to use the knowledge we learn in the classroom and apply it to real world issues, issues that affect many people in the world but few try to remedy.”

- Robert Max McNulty

University of Michigan
Engineering - 2010



ATC Revisits Solar Lighting

We have designed several solar lighting systems over the years. The efficiency of LEDs has improved to the point where we are redesigning our lighting system. We now can save 30% - 40% compared with our previous system while maintaining the same level of light.



Installation of Solar LED Light



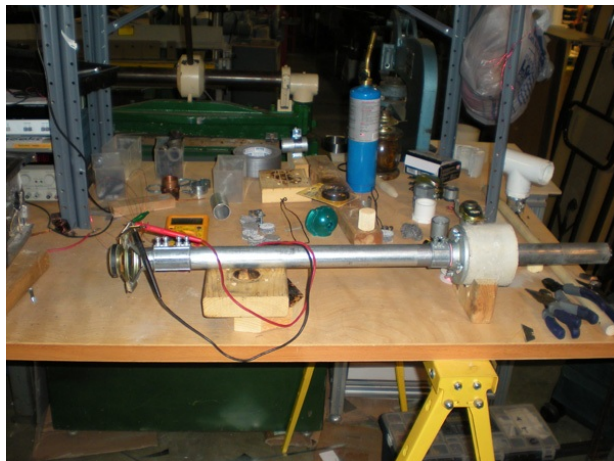
ATC + M-Heal World Challenge Design Team - Nicaragua 2010

University of Michigan M-Heal students arrived in Managua after dark on Friday, August 13, on separate flights to join up for the M-Heal + Appropriate Technology Collaborative (ATC) 2010 Nicaragua Trip. Our driver arrived exactly on time and delivered us to the Kairos Center for Formation Guest House, where we all lodged and shared meals in relative comfort for the first two nights in the Nicaraguan capital city.

Our host, the Kairos Center, is engaged in community development. The Kairos philosophy, that we are all teachers and learners, fits ATC and our approach to design in Nicaragua perfectly.

We visited several maternal health clinics in rural parts of Nicaragua.

More at our website: [ATC Nicaragua Maternal Health](#)



New Technology Cheaper Than Solar!

The word "Thermoacoustic" sounds like it might describe a weapon from a James Bond film but in reality ATC is using the thermoacoustic effect to create a very low cost easy to build electric power source for people who live off the grid.

Background: We found that for a family living in poverty without access

Check back at the ATC website for new drawings and specifications.

to electricity, a 10 watt solar panel combined with very efficient lights provides opportunities to earn a better living and for their children to do better in school.

The ATC Thermoacoustic project uses the thermoacoustic effect to create an inexpensive source of electricity. Using only waste heat from a wood stove our goal is to produce 20 watts of electricity for \$20.00 U.S. Come visit us at our fundraiser December 5th to see our most recent demonstration of the thermoacoustic effect! [Sign Up Here](#)

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