Panamerican School of Agriculture
Zamorano

Improved Stoves Research Center
ETHOS conference - 2010
• Students from 18 countries

• Our mission

Zamorano prepares leaders through rigorous educational programs, based on Learning-by-Doing, character and value formation, entrepreneurship, and Pan-Americanism; and contributes to the region’s economic development through applied research activities and outreach which support its educational programs.
Zamorano Improved Stoves Research Center

**Mission**

To reduce poverty, health problems and environmental impacts through research and extension efforts that support development, stove design and implementation depending on the socioeconomics characteristics of the area.
Zamorano Improved Stoves Research Center

Vision
By 2014, be established and approved as a Regional Certification Center in Latin-America to assess the efficiency of improved stoves and function as a clearinghouse of available information to interested organizations.
Areas of work: 1. Research

- CO2, CO and PM emissions Measurement using the PEMS.
- CO and PM indoor emission measurements.
- Follow-up in the communities to monitor stove efficiency and adoption.
- Assessment of wood humidity in stove efficiency.
- Full time employee.
Research in the laboratory

- Seven types of stoves in process of evaluation following the WBT and CCT protocols:
  - Justa tradicional
  - Justa 2 x 3
  - Ecofogón
  - Onil
  - Malena
  - Inkahuasi
  - Patsari
Research on the communities

- On site measurements.
- KPT measurements in the communities.
Area of work: 2. Training

- Second year students involved in emissions measurements and stove construction.

- Training to local microenterprises to built stoves.
Area of work: 2. Training

• Exchange program (students, visiting researchers, etc.).
• ¿Stove camp for Latin-America in Zamorano??
Area of work: 3. Local Development

- Establishment of 25 improved stoves
- Complementary efforts with GVEP (300 RE systems).
Area of work: 3. Local Development

Justa Tradicional
Area of work: 3. Local Development

Ecofogón
Area of work: 3. Local Development

Justa 2 x 3

Proyecto Mirador
Area of work: 3. Local Development

Onil
Areas of work: 4. Standardization

- Standard for measurement protocols.
- Standard for construction material, dimensions, and emissions (CO, PM, CO2) of a stove.
- September 2010: conference to promote certification.