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Debbie Morrow Grand Valley State University, morrowd@gvsu.edu

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Morrow, Debbie, "Engineering South of the Border: A Librarian's Experience in Nicaragua" (2012). *Presentations*. Paper 7. http://scholarworks.gvsu.edu/library_presentations/7

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Engineering South of the Border: A Librarian's Experience in Nicaragua

Debbie Morrow, MLIS
Liaison Librarian – EGR, CIS, MTH, STA
Sr. Librarian, GVSU

ASEE Annual Conference, San Antonio TX Monday, 11 June 2012





AGII / IGIA

Applied Global Innovation Initiative

of Grand Valley State University

Iniciativa Global de Innovación Aplicada

- Vision: Empowering people to change their world with their resources
- **Mission:** Through product innovation that is interdisciplinary, intercultural, and innovative in approach the Applied Global Innovation Initiative empowers individuals (communities, faculty, staff, and students) to address challenging environmental, economic, and social issues facing the world's poorest populations.

AGII Partners

- Grand Valley State University
 - Dr. Paul Lane, Seidman College of Business
 - Dr. John Farris, College of Engineering
- UNAN-Managua & FAREM Estelí
- CENAC Spanish language school, Estelí
- Tiger Studio Design Industrial design, Zeeland, MI



AGII – May 2012

- ~130 Participants:
 - 100+ students from UNAN's campuses
 - 25+ UNAN faculty
 - Including various engineering disciplines, business administration, economics, computer science, psychology, anthropology, philosophy
- 4 Nicaraguan translators
- 5 AGII Project Coordinators and ~dozen project partners and volunteers with a range of skills and backgrounds

Teaching Innovation in a Week

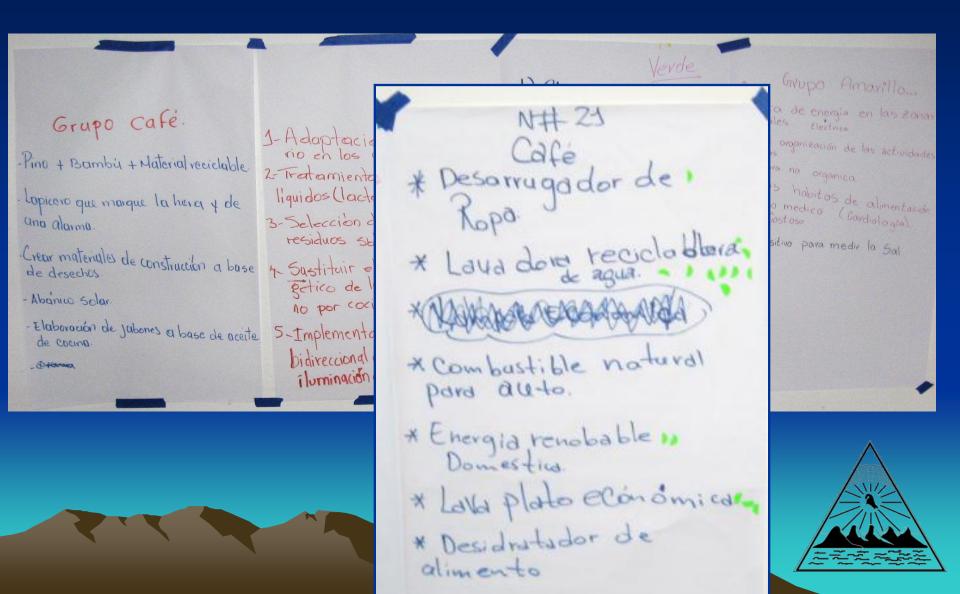
PROCESO DE INNOVACIÓN	-	INNOVATION PROCESS
IDENTIFICACIÓN DE OPORTUNIDADES	-	OPPORTUNITY IDENTIFICATION
LLUVIA DE IDEAS	-	BRAINSTORMING
DIAGNOSTICO DE CONCEPTO (DESARROLLO)	-	IDEA SCREENING
DESARROLLO DE CONCEPTO	-	CONCEPT DEVELOPMENT
BOSQUEJO	-	SKETCHING
DIAGNOSTICO DE CONCEPTO (APLICACIÓN)	-	SCREEN APPLICATION
PLANIFICACIÓN DE NEGOCIOS	-	BUSINESS PLANNING
MODELO EN 3D	-	3D MODELING
PRESENTACIÓN	-	PRESENTATION



Getting Acquainted



Brainstorming, Screening







"Taxi Pitch" aka "Elevator Pitch"



Source: P. Haynes



Asking Questions





Using Data & Resources







Receiving Recognition



Next?

- AGII staff, with input from Tiger Studio Design, will select 1-5 ideas from among those developed and presented in May
- Program leaders Dr. Lane & Dr. Farris will return to Estelí with Tiger Studio staff for a week in August to provide support for further development
- AGII Goal: At least 1-2 new product roll-outs reported by Nica participants in May 2013

Abstract

Engineering South of the Border: A Librarian's Experience in Nicaragua

I will spend the first half of May'12 in Estelí, Nicaragua, as a volunteer member of a project to teach product innovation and development skills to students and faculty of the Nicaraguan national university system. The two leaders, Engineering and Business faculty members from GVSU, require no special expertise or language skills for volunteers, but are excited at the prospect of having a library professional among the support group in this year's seventh annual iteration of the program. I look forward to sharing what I learn about engineering and academics in a culture eager to develop.

Debbie Morrow, Grand Valley State University

morrowd@gvsu.edu



Credits

- Photographs by D. Morrow (2012), unless otherwise noted.
- Alexrk2. (2010). "File:Nicaragua relief location map.jpg." Wikimedia Commons. http://commons.wikimedia.org/wiki/File:Nicaragua_relief_location_map.jpg
- Beckmann, W. (2012).
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For more information about AGII, contact:

Dr. Paul Lane lanepa@gvsu.edu cell 203.558.3140

Program website: http://www.gvsu.edu/agii/

