



2010 AIEA Annual Conference

A Mexico-US Higher Education Partnership for
Global Learning and Research

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By:

Glenn C.W. Ames, Director of International Special Projects, Office of the Vice President for Public Service & Outreach

Martha Alleksaht-Snider, Associate Professor of Elementary and Social Studies Education

Jorge Atiles, Associate Dean for Outreach and Extension, Family and Consumer Sciences

Tony Tyson, Director, Extension County Operations

Organization of Presentation

- Internationalization of Higher Education – Context for Session Presentation
 - Glenn Ames
- TIES Project “Teachers Training Teachers: A Mexico-US Higher Education Partnership to Improve Science, English and Mathematics Pedagogy”
 - Martha Alleksaht-Snider & Glenn Ames
- Cross-Cultural Studies Seminar for Extension Faculty at the University of Georgia
 - Jorge H Atilas & Tony Tyson
- Conclusions and Discussion

Internationalization of Higher Education

Jane Edwards writing in the Journal of Studies in International Education (2007)
Origins, Challenges and Opportunities for Internationalization of Higher Education...

“...Internationalization may be designed to fulfill an idea on the part of trustees or stakeholders...

or it may be the result of internal drive from faculty or from administration to pursue agendas related to the curriculum or to some educational outcome associated with the process of internationalization” p.375

[Internationalization] “...may also be a combination of the two”

Internationalization of Higher Education

Edwards continued.....

The two principal modes in which internationalization proceeds may be

- (1) **Opportunistic**, growing out of specific initiatives
Ex: Study Abroad or collaborative research led by individual faculty
- (2) **Planned** coherent portfolio of activities as a result of institutional initiatives, such as
Ex: A strategic plan for internationalization of the whole institution (Yale) (Membership in Regional Consortia)
- (3) A combination of both processes (**Opportunistic and Planned**) together or side by side
Ex: **Externally funded institutional partnerships that are faculty driven and conducted with an institutional commitment to internationalization**

Objective of Session:

The objective of this session is to illustrate how the opportunistic and planned model(s) of internationalization can be utilized to strengthen global learning, research and service in Georgia and Mexico through the catalyst of externally funded projects.

Ex: USAID Funded Partnerships under TIES program

History of UGA partnerships with Mexican universities in Xalapa, Veracruz State

Origins and initiatives

- 1990s partnership with Universidad Veracruzana in Social Work and Education
- Study Abroad program in Agribusiness 2000 (President Michael Adams' goal of 25% of UGA students to have international experience by 2010)
- Cross-cultural studies program for Extension Agents, 2000-2009
- Cross-cultural program for Midwives and Social Workers – Area Hospitals, 2003
- The Training, Internships, Exchanges, and Scholarships (TIES) initiative funded by USAID/Mexico – Institutional partnerships 2001
 - Agribusiness – Universidad Veracruzana 2004-2008
 - Teacher Preparation – Universidad Pedagógica Veracruzana & Benemérita Escuela Normal Veracruzana 2006-2010
 - Agricultural Engineering – Universidad Autónoma de Coahuila 2007-2010

What is TIES?

- The Training, Internships, Exchanges, and Scholarships (TIES) initiative is funded by USAID; it allows universities in the U.S. and Mexico to form educational partnerships for the purpose creating and enhancing economic development in Mexico
- TIES was created in 2001 when President Bush and President Vicente Fox issued a joint statement announcing a scholarship program which allowed exchange opportunities for Mexican graduate students and faculty to study at American Universities such as UGA.
- The University of Georgia has received three partnerships since 2004.
- 60 partnerships implemented to date

- TIES Phase II entitled, “Teachers Training Teachers: A Mexico-US Higher Education Partnership to Improve Science, English and Math Pedagogy” .
- TIES Phase II – offered seven scholarships to improve Science, English, and Math Pedagogy. The partnership included:
 - The Universidad Pedagógica Veracruzana (UPV)
 - Benemérita Escuela Normal Veracruzana (BENV) and
 - The University of Georgia.

TIES Goals

- To enhance UGA's understanding of the Mexican educational system with implications for helping Latino children in GA schools
- To strengthen primary and secondary teacher preparation in Veracruz by:
 - Improving UPV's and BENV's curriculum and pedagogy in the areas of math, science, and English for speakers of other languages (ESOL)
 - Better equipping UPV and BENV faculty with new skills and pedagogical techniques to train teachers for a competitive educational system in a global society

TIES Projects Activities Include:

- **Scholarships** for Mexican students to study at U.S. Universities at the Masters level.
- **Internships** in specific fields.
- **Faculty Exchanges** for short-term research and workshops.
- **Workshops** and training in specific fields that contribute to Mexico's human capital and economic development.

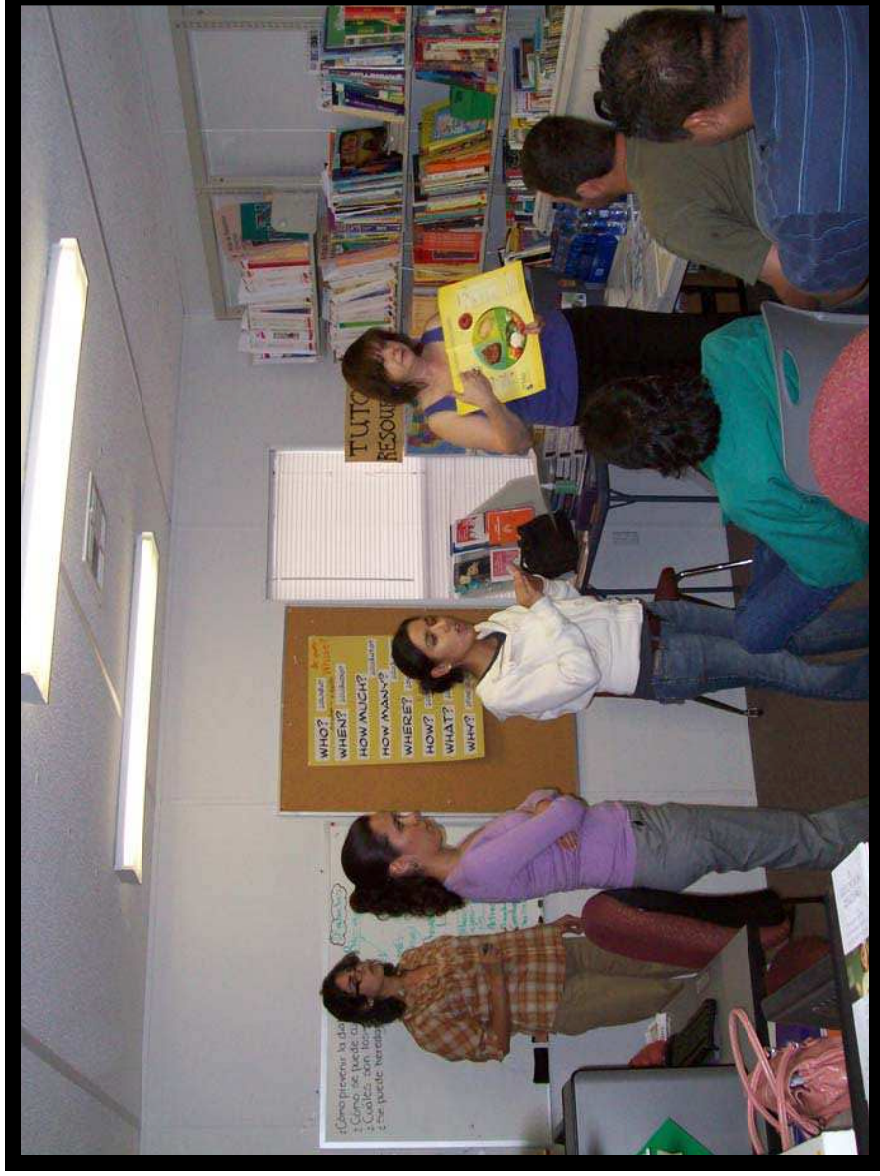
TIES Activities Outside

Classroom: Workshops to Improve Math, Science and ESOL Pedagogy

- Math and Science workshops at Cosamaloapan, Veracruz, June 2009
- Science workshop in Cosamaloapan, November 2009
- Outreach activities in Georgia 2006-2010

**Outreach Internationalization
Benefits to Schools, Public
Health Outreach, and Higher
Education Aspirations for Latino
Children in Georgia**

Outreach Internationalization



TIES I, Sonia Velasquez and TIES II, Leticia Reyes Hernandez translate for Melanie while TIES II, Amelia Maliyel Guzmán writes the important points on the white board for the Latino audience, on how food consumption impacts the level of blood sugar (glucose) in the body and how to manage diabetes.



TIES Phase II students volunteer during Feria Latina de Salud Health Care Fair, on October 6, 2007.



The display about Mexico caught participants' attention at the **Centennial Celebration of Diversity** at UGA College of Education.





TIES students assisted Elva Silis, Pre-K Bilingual Family Engagement Specialist with the Clarke County School District, during Pre-K orientation.



TIES graduate student listens to a teacher explain the new “First Grade Agenda” requirements and supply list before translating the explanation to a Latino family.



Observing classes, working as an interpreter during Parent Teacher Conferences, and teaching children as part of small multicultural projects helped Cintia learn more about elementary education in the US.



After their first year of studies in the US, TIES students organized Mathematics workshops for teachers working in multi-grade, indigenous and rural schools in the state of Veracruz. Two hundred teachers attended the workshops.



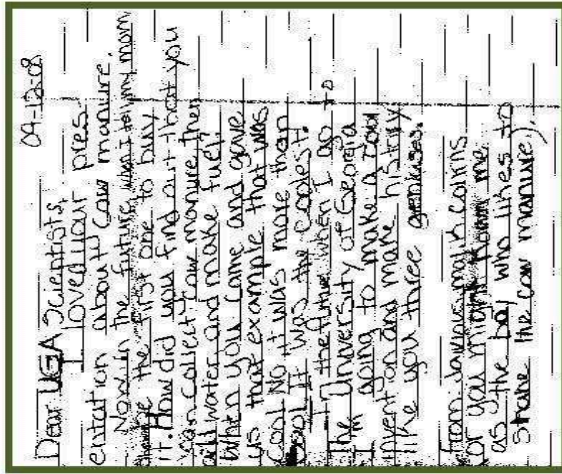
SUCCESS STORY

Be Cool! Stay In School!

University of Georgia (UGA)/Universidad Autonoma de Coahuila (UAC)

Integrated Waste Management with Energy Production for Increased Competitiveness of the Livestock Industry in Northeast Mexico

Javious never wakes up easily in the mornings...he hates going to school. What's the point? He feels like it's a waste of time because soon he'll be old enough to go to work in the poultry plant with his mom to help make ends meet. This morning is different though. He rolls out of bed a little faster knowing that there are some young scientists coming to talk during 2nd period, and he's happy to have any excuse to miss math. Mr. Christian Espino and Mr. Gerardo Martinez are two interns visiting from UAC, Mexico on a TIES grant to study waste management and methane capture at UGA. They are excited to talk to the students at Fowler Drive Elementary, many of whom are also Latino.



Thank you letter from Javious Collins

Although most of them only know UGA in regards to the famous Georgia Bulldog mascot, the kids are all ears to learn about how young Mexican scientists are developing techniques to turn cow poop into fuel. Christian and Gerardo demonstrate how manure is composted to collect the decomposition gas, methane. And they explain how this keeps the dangerous gas out of the atmosphere, and provides a sustainable fuel source. Of course the best part is passing around actual samples of the 'biomass' and listening to the students come up with their own ideas of biomass. Then Christian showed how to collect the gas out of a sample bag, proving the gas' release by lighting a match and seeing the flame leap a few inches high. As the children watched the demonstration intently, they ask questions: "How did you get to come to the USA? What did you study in school to be a scientist? What can I do to go to UGA too?" At the end, the whole class thanks the interns with a UGA standard, "Go Dawgs! Woof Woof!"

The interns were pleased to note that the presentation sparked a dialogue about higher education, internships, and international exchange. They are hopeful that exposing these kids to the future possibilities of education will at least plant the seed of inspiration. And now Javious thinks perhaps it could be cool to finish school. Maybe he could even become a Georgia Bulldog, woof woof!



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SUCCESS STORY

*Finding New Ways to Manage Sh*t*

University of Georgia (UGA)/Universidad Autonoma de Coahuila (UAC)

Integrated Waste Management with Energy Production for Increased Competitiveness of the Livestock Industry in Northeast Mexico

Ulises Triana Dominguez rises early every morning to work on his family's dairy farm in Mexico's Laguna region, before he heads into town for school. Lately he's been more and more concerned with the amount of sh*t they have to deal with as a result of having so many cows. The typical way to deal with all this manure is to shovel it daily, collecting huge piles, and then have it hauled off to other areas to be spread on fields as fertilizer. But now he worries about the sheer volume of waste, releasing dangerous gasses like methane into the atmosphere as it decomposes, and leaching harmful contaminants into the ground water.



These worries are now being addressed through a USAID and HED funded grant program. Ulises won a competitive internship to study waste management and methane capture and use in state of the art labs at UGA. For five months he did lab research, visited farm sites around Georgia, and met with many related personnel. He also had the chance to dialogue with two Applied Economics professors to discuss the ins and outs of applying his technical knowledge to farms in Mexico, and all the possible impacts. Methane capture for beneficial use is rather simple in theory; put the manure in a container, and collect the gas as it decomposes. The methane collected can be used for power and fuel. Then once the manure has completely decomposed and expelled all the methane, it is safer to use as a fertilizer. However, there are many factors to consider, and technologies to explore to develop the most economical, productive, and environmentally friendly solution. The knowledge that Ulises gained in his internship at UGA was a cornerstone for the completion of his degree in Biochemical Engineering at UAC. And now he is armed with the knowledge and resources to apply a sustainable bioenergy initiative on his own farm. Goodbye fossil fuels, hello cow manure!



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Final TIES Outcomes

- Eleven masters degrees completed in May 2009.
- Three non-degree scholarships completed.
- Workshops in Mexico benefiting 200 teachers
- Burney Harris Lyons' "Steps to College" through science enhancement of Latino children's expectations for post-secondary education in GA

Benefits of the Mexico-US Higher

Education Partnership include:

- Internationalization of the student body
- Collaborative research on pedagogy, trade policy, waste management
- Cross-cultural understanding for extension agents
- Externalities – benefits beyond the “box”

Thank You!



Questions?

