Continuing the Legacy of Dr. Norman E. Borlaug
TELLTALE SIGNS OF DISTRESS...

- Hunger and poverty.
- Disease.
- Illiteracy.
- Crime.
- Irreparable damage to natural resources.
- Despair and hopelessness.
ANOTHER WAY TO LOOK AT IT...

Proportion of the world’s hungry (2014)
THE WORLD IS A FRAGILE PLACE...
Dr. Borlaug said it best:

“Peace cannot be built on empty stomachs, or on human misery”
1. Prevent conflict by addressing poverty and hunger.
2. Apply agriculture science to address poverty and hunger.
3. Take it to the farmer.
4. Engage in an interdisciplinary approach.
5. Encourage effective governance and sound policies.
6. Youth development.
7. Act more and talk less.
PROGRESS IS AFFECTED BY EXTERNAL FACTORS...

- Growing populations
- Climate extremes
- Limited fossil fuels
- Limited water
- Limited land
HOW ARE WE GOING TO FEED 9 BILLION BY 2050?

- Need to elevate small farmers out of poverty and hunger by employing **Smart Agriculture** and Value-chain approaches.
Established in 2006 as part of Agriculture & Life Sciences at the Texas A&M System

OUR MISSION:

“To lift small-holder farmers out of poverty and hunger through agricultural science”
THREE MANAGEMENT DIVISIONS

Operations
- Accounting
- Human Resources
- Communications/Marketing

Program Development
- Opportunity Tracking
- Team Building – faculty!
- Proposal & Budget Preparation

External Relations
- Donor outreach/networking
- Foreign Affairs
EXTERNAL RELATIONS PAY OFF

- **Partnerships**
  - Foreign universities
    - Hub at the National Chung Hsing University in Taichung, Taiwan established November, 2015
  - NGO community

- **Donors**
  - USAID and other U.S. government agencies
  - Foreign ministries
  - World Bank
  - Foundations
  - Private industry
<table>
<thead>
<tr>
<th>Month</th>
<th>Speaker</th>
<th>Organization</th>
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<tbody>
<tr>
<td>April, 2015</td>
<td>Mr. David Atteberry</td>
<td>USAID Bureau for Economic Dev</td>
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<tr>
<td>September, 2015</td>
<td>Dr. Dennis Carroll</td>
<td>USAID Bureau on Global Health</td>
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<td>October, 2015</td>
<td>Bryce Watson</td>
<td>Student Initiative for International Dev</td>
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<td>November, 2015</td>
<td>Amb. Ken Quinn</td>
<td>President of World Food Prize</td>
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<td>January, 2016</td>
<td>Dr. Jenny Ward</td>
<td>Director of PAHO Foundation</td>
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<td>February, 2016</td>
<td>Dr. Victor Villalobos</td>
<td>Director General IICA</td>
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<td>March, 2016</td>
<td>Dr. Shirley Tarawali</td>
<td>Associate Director ILRI</td>
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<td>Dr. Prasanta Kalita</td>
<td>Director ADM Institute for Prevention of Post-Harvest Food Losses</td>
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<td>April, 2016</td>
<td>Pres. Fuh-Sheng Shieu</td>
<td>Pres. National Chung Hsing University</td>
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<td>Pres. Jeff Lansdale</td>
<td>Pres. El Zamorano Pan American Ag School</td>
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<td>Dr. Rob Fraley</td>
<td>CTO, Monsanto</td>
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THREE PROGRAMMATIC DIVISIONS

World Coffee Research Center

Office of International Training

Office of Field Projects

- Asia
- Central Europe
- Latin America/Caribbean
- Middle East/North Africa
- Sub Saharan Africa
NEW WORLD COFFEE RESEARCH CENTER FOR SCIENCE AND EDUCATION: A PARTNERSHIP WITH WCR
OFFICE OF INTERNATIONAL TRAINING...

- Participate in USDA’s Borlaug Fellows and Cochran Fellows programs ($1.4m/yr).

- FDA has asked us to serve as Co-Point of Contact and facilitator for Food Safety Modernization Act (FSMA) training program.

- Awarded contract by entities outside of USG: America for Bulgaria Foundation, Department of State, and Institute of International Education (funding from PepsiCo Foundation).

Traditional Focus Areas:

- Climate-adapted food crops, cash crops, and food animals.
- Energy-efficient, water-efficient, and input-efficient farming systems.
- Forecasting and modeling systems.
- Food safety and equivalence.
EXPANDING OUR ACTIVITIES...

- **Additional Focus:**
  - Nutrition and public health, including zoonoses.
  - Mitigating post-harvest food losses.
  - Resilience.
  - Policy.
Sub-Saharan Africa

+ **Ethiopia, Ghana, Tanzania** - ongoing
  - Small Scale Irrigation Innovation Lab

+ **Angola** - ongoing
  - Assessment of agriculture sectors

+ **South Sudan** – final stages
  - Evaluation of farmer training programs

+ **DRC** – project concluded
  - Horticulture crops, aquaculture

+ **Rwanda** – project concluded
  - Pyrethrum

https://www.youtube.com/watch?v=Lr3KJ2Cg1N0
NOTABLE FIELD PROJECTS SINCE 2012...

Asia

+ **Afghanistan** - ongoing
  × Extension development

+ **Bangladesh** – ongoing
  × Small ruminants

+ **East Timor** – ongoing
  × Horticulture crops
Latin America

+ **Guatemala** – ongoing  
  ✗ Coffee Rust disease

+ **El Salvador** – ongoing  
  ✗ Training in equivalence

+ **Dominican Republic** – ongoing  
  ✗ Food safety
UPCOMING OPPORTUNITIES IN CENTRAL AMERICA

- Alliance for Prosperity Initiative
- FY2016 Federal Appropriations
  + $750M for Central America
- Borlaug Institute hosting Central America Summit
  + Rep. Kay Granger keynote
  + Ministers of Agriculture
  + USAID
  + Regional organizations
We are looking for partners to help us carry on the Borlaug legacy!

https://www.youtube.com/watch?v=ocC0-fqMo-Q