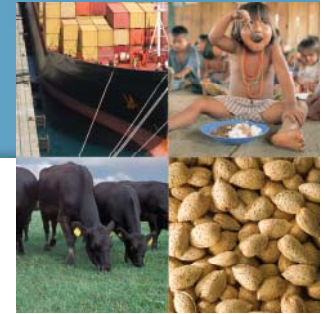




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# **Norman E. Borlaug International Agricultural Science and Technology Fellowship Program**

**Catherine Chesnutt, International  
Agricultural Development Specialist  
USDA Trade and Scientific Exchanges  
Division**



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# Borlaug Fellowship Program



- **Named after Dr. Norman E. Borlaug, Father of the Green Revolution**
- **Helps countries strengthen sustainable agricultural practices by providing scientific training and collaborative research opportunities to visiting researchers, policymakers, and university faculty.**
- **The program matches participants with experts in their field at host institutions.**



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# Program Overview

- **Fellows Since Inception in 2004:** 563 fellows from 64 countries
- **Partners & Mentors include:** U.S. universities, government agencies, international research centers, nonprofit institutions and private companies
- **FY2011:** 38 fellows from 23 countries
- **Fellowship Duration:** 6-12 weeks
- **Priority Focus Areas:** Agricultural/Veterinary Sciences, Agricultural Economics/Policy, Food Safety/SPS, Trade Capacity Building, Soil and Water Resources Management, Biotechnology



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# Geographic Coverage FY10





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# Training Priorities

## Vietnam

- **Pest Risk Assessment Processes for Horticultural Products and Detection Methodology and Mitigation Measures for Food Borne Illnesses in Meat**
- **Developing and Applying Risk Assessment Methodology for GMOs and Interpreting Risk Assessment Data**
- **Development of Saline-Resistant Rice Varieties**





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# Training Priorities

## Indonesia

- **Climate Change Agricultural Mitigation and Adaptation:**
  - genetic modification for rice, corn, or sorghum
  - agroforestry production system yield, minimal greenhouse gas emissions, carbon sequestration, and global climate change policy analysis and development
- **Aquaculture:**
  - control and prevent aquaculture diseases
  - genetic and breeding of aquaculture
- **Food Science and Technology:**
  - food safety (sanitary and phytosanitary, hazard analysis and critical control points, and cold chain)
  - nanotechnology in food products





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# Global Research Alliance

## Global Research Alliance (GRA) Borlaug Fellowships

- **GRA is a collaborative international research effort announced at the Climate Change talks in Copenhagen in December 2009**
- **Currently, 14 eligible countries in the Global Research Alliance on Agricultural Greenhouse Gases including Indonesia, Vietnam, Malaysia, Philippines, India and Pakistan in Asia. Seven fellows were selected this year world-wide.**
- **Target Research: Greenhouse Gas and Carbon Sequestration assessments & databases, Mitigating Greenhouse Gas Emissions in Crop and Grazing Systems**



**2010 Borlaug GRA Fellow, Tran Thi Le Ha**

*Ms. Thi Le Ha's Borlaug GRA Fellowship studied methane emission in paddy fields, seeking to reduce paddy fields' contribution to global warming, and increase rice production in her native Vietnam.*



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# Fellow Profile

- **Early-mid professional careers employed in universities, government, and research institutions**
- **Demonstrated intention to continue working in home (low to middle income) country**
- **Minimum educational requirement: Masters Degree**



Indonesian fellow Agung Wahyu Susilo conducting PCR analysis for cocoa tree pathogens



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# Program Cycle

	September	October	November	December	January	February	March	April	May	June	July	August	September
<b>Priorities</b>			Final selection of countries and training priorities										
<b>Application announcements and recruitment</b>				Outreach and recruitment of Fellows by posts									
				Post application announcements									
<b>Fellow and University Selections</b>						Interviews, selection of Fellows, determine funding and fellowship allocations for fiscal year							
								Solicit proposals from host universities					
										Select host universities and send out acceptance letters			
<b>Fellowship begin</b>	<p>Fellowships ongoing</p>												



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# Applying

- **Borlaug Fellowship Program Application Package:**
  - **Proposed research work plan**
  - **Academic and career background**
  - **Official copy of transcript of university degrees**
  - **Two letters of recommendation**
- **Interview:**
  - **Successful applicants will be invited to a 30-45 minute interview, in English, with Borlaug Program staff to discuss their proposed plan of research in depth**

\*Applications are available online at the Borlaug Fellowship Program website:  
[www.fas.usda.gov/icd/borlaug/Borlaug.asp](http://www.fas.usda.gov/icd/borlaug/Borlaug.asp)



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# Fellowship Experience

## Diny Dinarti, 2010 Borlaug Fellow

**Home Institution:** Bogor Agricultural University, Faculty of Agriculture, Department of Agronomy and Horticulture

**Host Institution:** Sustainable Perennial Crops Laboratory, ARS, BARC-west, USDA, Beltsville, MD

**Research Objective:** Characterization of cacao farmer selections from South Sulawesi, Indonesia to assess genetic diversity and inter-relationship among cacao crops in the region

**Success:** Successfully characterized samples and is conducting further research to identify the most successful and productive strains. Also participated in key cocoa-related events in DC, and met the Indonesian Ambassador, and the Indonesian Minister of Agriculture





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### Borlaug Fellowship Program

The Norman E. Borlaug International Agricultural Science and Technology Fellows Program (Borlaug Fellowship Program) helps developing countries strengthen sustainable agricultural practices by providing scientific training and collaborative research opportunities to visiting researchers, policymakers, and university faculty. The program matches participants from developing countries with experts in their field at land-grant universities, government agencies, and international research centers.

The Borlaug Fellowship Program has grown from 33 fellows from five countries in its first year in 2004, to a total of 358 fellows from 49 countries in 2008.

See current fellowship opportunities!

**Borlaug Exchange - News and Highlights**

*In Memory of*  
**Dr. Norman E. BORLAUG**

**Norman Borlaug, Father of the Green Revolution, passed September 12, 2009, at his home in Dallas, Texas.**

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**About the Fellowship**

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**How to Apply**

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**Welcome to the USDA Exchanges Community!**  
This community was created exclusively for alumni of the U.S. Department of Agriculture (USDA) exchange programs as a place to reconnect, share and continue the discussion started during your exchange program. Please post your photos, news, ideas, and thoughts!

**USDA Exchanges Community**

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**Alumni News**

30 Mar	<a href="#">USDA Deputy Administrator Patricia Sheikh to Serve as Guest on Q&amp;A Live</a>
21 Jan	<a href="#">Five Borlaug Fellows Take Home New Knowledge</a>
29 Dec	<a href="#">First Borlaug Fellow from Liberia completes Cocoa Fellowship at the University of Tennessee.</a>
16 Nov	<a href="#">Middle Eastern doctors research Colorado livestock techniques</a>
2 Nov	<a href="#">Agricultural Secretary Vilsack Meets With Cochran Alumni in China to Recognize Program</a>

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**About Us**

Welcome to the United States Department of Agriculture (USDA) Exchanges Community on the State Alumni website! The USDA Exchanges community is comprised of the following programs:

- Cochran Fellowship Program,
- Borlaug Fellowship Program,
- Faculty Exchange Program, and
- United States-China Scientific Cooperation Exchange Program.

The mission of these exchanges is to provide training and support to help developing nations improve their agricultural systems and strengthen and enhance trade links with the United States. This website, or community, has been exclusively designed for you, USDA Exchanges Community Alumni, as a way to stay connected, expand upon your experience and discuss what you learned from training, share stories, post photos, and more. All USDA Exchanges Community Alumni, past and present, are invited to register and become part of USDA Exchanges Community on the State Alumni website.

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# Thank you. Please Contact Us

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