

**2005
Annual Report**

**Office of International Programs
in Agriculture**

College of Food, Agricultural, and Environmental Sciences



May 2006

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2005 Annual Report

Office of International Programs in Agriculture

Mission

The Mission of the Office of International Programs is to incorporate an international dimension into the student learning, discovery and engagement dimensions of the college so that (a) our graduates understand and appreciate the global environment in which agriculture functions; (b) our research and engagement programs have access to the best ideas and technologies regardless of where they are generated or developed; and (c) the above strengthen U.S. international competitiveness within a sustainable global agricultural and natural resource system.

Introduction

The Office of International Programs in Agriculture has continued to focus on programming that is consistent with its mission during 2005. It provided important support services relating to all three of the major operational dimensions of the College of Food, Agricultural, and Environmental Sciences, namely, student learning, discovery, and outreach to students, faculty, staff and stakeholders. A significant change has been the official transfer of the study abroad program management to the Office of Academic Affairs. Our Office will continue to support the study abroad program as a part of its on going relationship with institutions hosting these programs abroad. The transfer has resulted in part from changes in the mode of resource generation, distribution, and management for the university as a whole. Consistent with the need to focus on revenue generation, which is a major part of the new responsibility based budgeting system, increased emphasis has been placed on the development of proposals for extramural funding and the management of existing grants and contracts.

The Office has greatly benefited from support given to it during 2005 by the OSU Extension, the Ohio Agricultural Research and Development Center, and the College Office of Academic Affairs. It also benefited greatly from inputs provided by other offices and programs on the OSU campus, in particular the Office of International Education, the Office of International Affairs and its affiliated Area Studies Centers, and the Center for International Business Education and Research of the Fisher College of Business.

Globalization has continued to impact rural Ohio and its economy. The ultimate mission of our Office is to globalize the College of Food, Agricultural and Environmental Sciences and to assist agribusinesses, farmers, rural inhabitants and other stakeholders adjust to changes resulting from it and to take advantage of the opportunities afforded by it. Primary stakeholders are here in Ohio, but we also recognize that with globalization and with the fact that we are rapidly becoming a world university, we also have other stakeholders in Ohio, the U.S., and the world. The Office seeks to maximize the ability of all stakeholders to adequately address their rapidly changing economic, social, and political environment.



ACTIVE PROJECTS DURING 2005

The Office of International Programs in Agriculture had the following active sponsored grants and contracts during the year.

Project Title	Amount
Proposal Preparation Grant for Regional Integrated Pest Management Program (IPM) Program in East Africa	\$17,295
Regional Integrated Pest Management (IPM) Program in East Africa: Kenya, Tanzania, and Uganda	\$146,113
University Partnership to Build Rural & Micro-Finance Capacity in Mexico	\$799,955
No Cost Extension Ohio State-Eastern Africa Site in Uganda	\$23,978
IPM CRSP Graduate Student Degree Completion	\$35,395
An Evaluation of New Market Development & Marketing Strategies on Sorghum and Millet Farmers' Income in Tanzania & Zambia	\$82,000
Strengthening Capacity of East African Faculties of Agriculture to Improve Small Holder Productivity	\$799,651
Technology Transfer – Southeast Asian and Uganda Sites	\$60,169
EARTH University/OSU Collaborative Program on Environmental Research in Humid Tropics	\$771,000
Punjab Agricultural University & Food Processing: New Linkages with the Private Sector	\$299,632
Agricultural Exports & Rural Income (Egypt, MUCIA AERI)	\$201,888
Development of M.S. Degree Programs in Soil Sciences, Agro-ecology & Biotechnology in the Dominican Republic	\$228,510
Building Institutional Capacity through Linkages with the Private Sector: Developing an Agribusiness Management Program at Sokoine University of Agriculture	\$97,529
University Partnership in Forest Resources in Tomsk Oblast	\$298,000
Development of Executive Agribusiness Masters Program through Distance Learning in Puerto Rico	\$111,124
Faculty Exchange Program Training (USDA/Newly Independent States)	\$161,032
Peace Corps University Contract	\$31,750
TOTAL	\$4,165,021

STUDENT LEARNING

Study Abroad

Students continued to find the academic term study abroad programs managed by our Office to be popular. During 2005 over 70 students, many of whom are agriculture majors, used them to study overseas. **Mandy Pillivant** continued to serve as the coordinator for these programs.

During Fall of 2005, the office of the study abroad coordinator was officially transferred to the academic area of the Dean's Office (Room 100) and Mandy now reports directly to Dr. L. H. Newcomb, Associate Dean for Academic Affairs. This arrangement facilitates direct alignment of study abroad efforts with those of student recruitment.

The OSU Office of International Education has overall responsibility for managing study abroad programs across the entire campus. It has been directly involved with the management of academic term length programs initiated by the College of Food, Agricultural, and Environmental Sciences. We are grateful to its Director, **John Greisberger**, and to several staff of his office, in particular, **Grace Johnson** and **Jeannie Bonner Simmons**, for their excellent collaboration.

Resident directors for the 2005 study abroad programs were:

- Brazil – **Ray Miller**, Student Affairs
- Czech Republic – **Donald Larson**, Professor, Agricultural, Environmental, and Development Economics
- Dominican Republic – **Brian Slater**, Professor, Soil Science
- Australia, **Normand St-Pierre**, Professor, Animal Sciences

CFAES students benefited from partial scholarships that were generated from endowments established by former faculty members and staff of the college and from other sources.

Internship Program

The Ohio Agricultural and Horticultural Internship Program (aka, The Ohio Program or TOP) progressed at a much higher level of efficiency and attained an all-time high number of participants, reaching 412 this year. This constitutes a 25% increase over last year. As a self-supporting entity of the IPA office, TOP continued to serve the needs of several departments within the college as well as farms and agribusinesses around the state of Ohio and the U.S. TOP also sent 12 OSU students abroad.



OSU student Lauren Fiala training in New Zealand



Major Travel / Making Connections

Michael Chrisman and **John Beardmore** traveled to Argentina to attend the AGRO 2005 Conference along with representatives of similar agricultural programs from around the world. Michael Chrisman visited several universities in Hungary to recruit students as a guest of the Ministry of Agriculture in Hungary/Szent Istvan University. He also accompanied other exchange organizations on a tour of Eastern European Embassies during which he discussed TOP programs with consular officials. The consular officials were briefed on programs offered by TOP and the applicants the officers might interview during 2006. Throughout 2005 Michael made onsite visits of all interns and host companies in the North Central and Northwestern regions.

Gabriella Pearse-Danker, TOP, and **Annette Deutz**, Hort & Crop Science, traveled to Germany to recruit participants at The IPM Horticulture Show. The Ohio Program shared the costs of a booth with its long time partner, the University of Weisbaden (Geisenheim). With 50,000 attendees, the IPM show is one of the largest horticultural shows in Europe. OSU was the only U.S. university present at the show. Throughout 2005 Gabriella made onsite visits of trainees and host companies in Indiana, Pennsylvania, New York, New Hampshire, Maine Massachusetts and Virginia.



Gabriella Pearse-Danker at IPM Show with Annette Deutz, Professors Behrens and Reymann in Germany

Greg Lecki became a full time staff member this year. He interviewed trainees in Florida and several Southern states. He was invited to promote The Ohio Program at partner universities throughout Poland: at Poznan, Lublin, Krakow, Wroclaw, Warsaw, Olsztyn, Bydgoszcz and Tarnow. **Kinga Slominska**, representing the Academy of Agriculture in Lublin, Poland, visited Columbus and some of the students whom she recruited. The trip was funded in part by the Polish universities.



Kinga Slominska (Lublin) hosted by The Ohio Program

Yining Zhang visited China on behalf of the intern program to give several presentations to prospective students for programming in 2006. He also made on-site trainee/host visits in California, Michigan and Ohio.

John Beardmore scheduled a two week tour to the UK in November where he made presentations at nine colleges and universities including long term partners such as Harper Adams University, Myerscough and Cranfield University. In 2005 he also visited all trainees in the Central United States.

Training Evaluation

Staff members **Greg Lecki** and **Natalia Oliynyk** worked on an on-going research project to evaluate the impact of the internship experience on subsequent careers



of past trainees. To date, responses have come back from 350 of the 2,500 past trainees. The research will be completed in 2007 and results will be published at www.top.osu.edu/article.pdf.

The TOP staff, in cooperation with Acorn Farms, provided an evening of fun and volleyball for TOP participants in August 2005.



International Trainee Picnic at Acorn Farms, OH

Other Key Activities

John Beardmore continues to serve as IPA's representative on the Staff Advisory Council (SAC) to **Bobby Moser**, Vice President for Agriculture Administration and CFAES Dean. He is also TOP's department network administrator.



Group of international participants taking classes during winter quarter at the OSU representing seven

Yining Zhang was responsible for welcoming 12 trainee/students to campus winter quarter. He arranged classes and housing as well as social activities. His leadership rated high marks from the participants. Students performed very well in and out of the classroom. Yining is also responsible for SEVIS processing (Homeland Security System) and helps participants obtain visas for the program.

Gabriella Pearse-Danker made a presentation at The Ohio Florist Association (OFA) Short Course which hosted 10,000 attendees in Columbus in July 2005. She participated in a presentation and panel discussion on internships and how employers can provide quality experiences. Gabriella and TOP staff also represented the IPA office at the OFA Trade Show. During the year she assisted in facilitating an MOU with OSU and the Federal University of Parana (UFPR) for the exchange of trainees. She also actively promoted overseas internship opportunities for students from our College.

Mike O'Keeffe represented Ohio State at the annual Turf Conference in England. Following the conference he visited seven Colleges in Ireland: the Tralee Institute of Technology, Clonakilty Ag College, Cork Institute of Technology, Kildalton Horticulture College, Colaiste Stiofan Naofa Turf Institute, Warrenstown Horticulture College and Greenmount College in Northern Ireland. He spoke with administrators, faculty and students about internships available through TOP.



Delegation from Ninigxia University visiting OSU

As a result of Mike's efforts, a total of 54 trainees from nine different countries attended the OSU Global Turf Conference on Hilton Head South Carolina. OSU Faculty members Dr. **Shetlar** and Dr. **Danneberger**, along with Dr. **Dipaola**, head of North American



OSU Global Turf Conference 2005 in S. Carolina
with 54 international participants

Marketing for Syngenta, and the Superintendent from Oakmont Country Club in Pittsburgh, presented papers on various subjects. Oakmont will host the 2007 Men's U.S. Open.

Mike also helped the OSU Turf Faculty recruit one of the best known turf graduates in Poland, Pawel Lewinski, for a three-month sabbatical with the HCS staff at the research center. While on campus, Pawell met with Joe Motz, The Motz Group, Cincinnati, about possible sports turf linkages on various projects in Poland in the near future.

Student Interns from Dijon, France

During the year, OSU had the opportunity to host two student interns from ENESAD, Dijón, France. Their internships were arranged by **Olivier Marcq**, Agricultural Technical Institute, Wooster. **Philippe Montserret** and **Jean-Charles Joachim** worked closely with faculty of the Agricultural Technical Institute and the Ohio Agricultural Research and Development Center during their stay in Wooster. They attended classes at ATI and collaborated on on-going research projects of faculty members at OARDC, including **Patrick Goebel**, School of Environment and Natural Resources, who served as their informal advisor.

Peace Corps

The IPA Office has hosted a Peace Corps representative on the OSU campus since 1974. Over the years, it has provided opportunities for and enabled hundreds of students to participate in this organization upon graduation from The Ohio State University as well as other Ohio Universities. The current Peace Corps representative, **Ela Kakde**, was a Peace Corps volunteer in Ecuador prior to assuming this position. She is pursuing an M.S. degree with a double major in City and Regional Planning and Rural Sociology with an emphasis on sustainable design of international communities. The Office advertises Peace Corps opportunities and works closely with the Peace Corps regional recruiting Office in Chicago to identify potential candidates and to interview and select them for programs in environment, agriculture, health, business, and education.





DISCOVERY THROUGH RESEARCH

During 2005 the IPA Office continued to support, and in some cases lead, several programs which facilitate active participation by its research scientists in global agricultural research networks. These programs represent important contributions to the overall research output of scientists in the college, provide financial support for the research, and provide access to global networks in which to carry it out. Most of these programs are funded by U.S. Government agencies.

Integrated Pest Management Collaborative Research Support Program

This program is in its 12th year. During the past year, several aspects were re-bid and contracted. The program is funded by USAID through a grant to Virginia Tech University. Currently, we are using two bridging grants to transition research activities at two sites in Uganda and the Philippines/Bangladesh.

Mark Erbaugh and **Sally Miller** successfully competed for Proposal Preparation Grants early in the year. The grants were used to prepare winning proposals for the second phase of the IPM CRSP. **Mark Erbaugh's** grant is titled "Regional IPM Program for East Africa: Kenya, Tanzania and Uganda," and **Sally Miller's** global theme grant is titled "Plant Disease Diagnostics."



Sally Miller is also involved in the East Africa Site, as well as in South Asian and Eastern European research sites. In recent years, more than eight OSU faculty members have been engaged in collaborative research activities at one of the nine IPM CRSP global research sites. The faculty members listed below have major continuing research involvement through this CRSP funding:

- **Sally Miller**, Plant Pathology - Site Chair, Philippines/Bangladesh
- **Roger Williams**, Entomology, Ecuador
- **Mike Ellis**, Plant Pathology – Ecuador
- **Mark Erbaugh**, IPA and Rural Sociology, Site Chair – Uganda
- **Richard Pratt**, Horticulture & Crop Sciences – Uganda
- **Joseph Kovach**, Entomology - Uganda

Aquaculture CRSP

Konrad Dabrowski, Natural Resources/Fisheries, continued his participation in the Aquaculture CRSP. This has included collaboration with counterparts in Peru and Mexico on projects involving fish genetics. He has also hosted several visitors from these sites in his laboratories on the OSU campus. In addition, scientists from Manaus, Brazil visited him and his lab to discuss collaboration under this program.



Sustainable Agriculture/Natural Resources Management (SANREM)

Douglas Southgate, Agricultural, Environmental, and Development Economics, participated in the SANREM CRSP. He researched the economics of water resource development in Ecuador. His research was carried out in collaboration with an NGO in Ecuador and focused on the value which consumers place on watershed conservation as well as the costs of water.

The management entity for the SANREM CRSP was also re-bid in 2004. The Office of International Programs in Agriculture joined Cornell University in preparing a proposal. However, this CRSP contract was awarded to Virginia Tech. **Douglas Southgate** was awarded a “bridging grant” from Virginia Tech to continue his work in Ecuador during 2005.

International Sorghum & Millet Collaborative Research Support Program

The CFAES began working with the INTSORMIL CRSP during the past year. **Donald Larson**, AEDE and **Mark Erbaugh**, IPA, are co-PIs on the project titled, “An Evaluation of New Market Development and Marketing Strategies on Sorghum and Millet Farmers’ Income in Tanzania and Zambia.” They are collaborating with social scientists at the University of Zambia and Sokoine University of Agriculture in Tanzania to implement this assessment of new market opportunities for sorghum and millet.

India Natural Resources Management Project

A project dealing with the conservation and management of soil and water resources in India was continued during 2005. **Rattan Lal**, School of Environment and Natural Resources, is the principal investigator for this project. Funded by the Sir Dorabji Tata Trust Fund in India, it is a collaborative project with the M.S. Swaminathan Research Foundation located in Chennai, India. The project has involved research at three sites in India – Tamil Nadu State; Madya Pradesh, and Punjab. University research scientists from local universities are engaged in conducting the actual field work. This research has focused on the application of minimum and no tillage practices, carbon sequestration in soils, and water quality.



Rattan Lal and **Steven Slack**, Director of the Ohio Agricultural Research and Development Center, visited India to review field project research and to discuss continuation plans for the project. They attended a two day workshop in New Delhi that focused on project continuation. Subsequent to this workshop, a proposal to continue the project that will include two additional sites (one in the foothills of the Himalayas and one in the Tsunami affected eastern coast region) was prepared during 2005. This proposal will be presented to the Sir Dorabji Tata Trust Fund in 2006. A report on activities conducted through the life of the



project was also prepared for submission to the Trust Fund central office.

Higher Education Partnership for African Development (HEPAD)

The “Higher Education Partnership for African Development: Long-term Training for Regional Agricultural Development in East Africa, Kenya, Tanzania, and Uganda”



Project is funded by USAID through the Higher Education for Development (HED) office. The Ohio State University, as the lead institution, partners with Michigan State University. **Mark Erbaugh**, IPA, is the partnership Director. OSU technical advisors to the project include **David Kraybill** and **Donald Larson**, AEDE. The purpose of the project is to strengthen the capacity of East African Faculties of Agriculture to improve smallholder agricultural productivity.

The six students taking courses for their sandwich degrees are:

- **Robert Gesimba**, Horticulture & Crop Science, Kenya
- **Gicuru Ithinji**, Agricultural Economics, Kenya
- **Jeremia Makindara**, Agricultural Economics, Tanzania
- **Hossea Mtui**, Horticulture & Crop Science, Tanzania
- **Peter Mulamba**, Agricultural Engineering, Uganda
- **Sadhat Walusimbi**, Animal Sciences, Uganda

Three of the students were granted Fellowships by the OSU Graduate School. Faculty serving as advisors to these students are: **Mark Bennett**, **Matt Klienhenz**, and **Dan Struve**, Horticulture and Crop Science; **Larry Brown**, Food, Agricultural and Biological Engineering; **Joe Ottobre**, Animal Sciences; **Dave Kraybill** and **Don Larson**, Agricultural and Development Economics.

EARTH University Collaborative Research Project, Costa Rica

The College continued its active collaborative research project with EARTH University in Costa Rica. Funded by the U.S. Department of Energy, the project focuses on the conservation and management of natural resources and alternative energy sources in the tropics. On the OSU side, there were five active projects in place during the year:

- **Jay Martin**, “Bio-Digesters as an Alternative Fuel Source for Home Cooking”
- **William Mitsch**, “Management of Wetlands in the Tropics”
- **Roger Williams/Michael Ellis**, “IPM Applications to Plantation Crops in the Tropics”
- **Rattan Lal**, “The Potential for Carbon Sequestration in Costa Rica”
- **Floyd Schanbacher**, “Biomass as an Energy Source for Fuel Cells to Produce Electricity”
- **David Hansen**, “Environmental Education and Rural Livelihoods in Costa Rica”





These projects all involved extensive interaction with counterparts at EARTH University. Several of them involved students from EARTH University in field work. In addition to the principal investigators, other OSU personnel involved in this research included:

- **Juan Jimenez**, Post-doc conducting field work on carbon sequestration
- **Amanda Nahlik**, a Graduate Student conducting field work on wetlands
- **David Lansing**, a Graduate Student conducting field work on rural livelihoods
- **Stephanie Lansing**, a Graduate Student conducting field work on bio-digesters
- **Melanie Miller**, a Graduate Student conducting field research on bio-digesters and environmental education.

Early in the year OSU received a visit by **Ivannia Sanchez** and **Dudley Lopez** of EARTH University. They were hosted by **Fred Bok**, OSU Food Industries Center, who discussed the building of a food center at EARTH University and introduced them to food industries in Ohio.

During Fall 2005 **Raul Botero** spent two months on the OSU campus on sabbatical from EARTH University. While on the OSU campus he interacted with OSU faculty, staff and students who were involved in the program.

Carlos Hernandez, Coordinator of the Project at EARTH University, also visited the OSU campus to discuss project activities. He visited with the OSU principal investigators in Columbus and Wooster.

OSU also invited two representatives of Central State University, **Subramania Sritharan**, Director of its International Center for Water Management, and **Clark Fuller**, Development Officer, to visit EARTH University to discuss how Central State personnel might become involved in the project. Subsequent to this Costa Rica travel, both visited the OSU campus to further discuss how to promote student and possible faculty involvement in the project.

American University of Beirut

Funded through a special USDA project and in collaboration with the University of Toledo, OSU scientists continued research with counterparts at the American University of Beirut (AUB) on a project designed to identify potential medicinal properties of flora indigenous to Lebanon. Under this project, OSU continued to host



two Ph.D. graduate students from AUB who are undertaking their programs. On the OARDC campus, **Dr. Floyd Schanbacher**, Biochemist/Animal Sciences, is hosting one of the students. On the OSU campus, **Dr. Daniel Struve**, Horticulture and Crop Sciences, served as the advisor for the other student. This project has involved reciprocal visits by scientists from AUB to OSU and from OSU to AUB as well as considerable interaction among scientists at these institutions and those at the University of Toledo. **Daniel Struve** and **Hala Zahreddine** prepared a proposal for follow up research and development activities, including a comprehensive "Botanical Peace Park" in Lebanon. They explored potential funding through the U.S. Agency for International Development.

Egyptian Agricultural Exports and Rural Income (AERI) Project

The "Institutional Linkages Activity of the Egyptian Agricultural Exports and Rural Income (AERI) Project" is being implemented by the Midwest Universities Consortium for International Activities (MUCIA) and led by the University of Illinois. **Burt Swanson** serves as project leader. The Ohio State University College of Food, Agricultural and Environmental Sciences is a partner institution and subcontractor along with Purdue University, the University of Minnesota, and the University of Florida. This project is working with three partnering Egyptian Universities - Cairo University, Assuit University, and Minia University - to build capacity of graduates, create public-private-international linkages, and strengthen biotechnology research to help transform and link Egyptian agriculture to the global economy.

At OSU, the subcontract is managed by **Mark Erbaugh**, IPA. CFAES faculty who completed short term assignments under this grant in 2005 are **Sally Miller**, Plant Pathology, **Jamie Cano**, HCRD, and **Ken Hoblet**, Chair of Veterinary Preventive Medicine.

Punjab Agricultural University Project

The IPA Office continued to manage the project titled, "Punjab Agricultural University and Food Processing: New Private Sector Linkages." It partners OSU/CFAES with the Punjab Agricultural University (PAU), a University which OSU helped to create over 50 years ago. Funding for this project comes from USAID through the office of what is now known as Higher Education for Development (HED). HED is formally affiliated with the American Council on Higher Education and the other major associations representing higher education in the United States. **Dave Hansen**, IPA, is the Project Director and **Mark Erbaugh**, IPA, is Co-Director. The partnership focuses on developing the capacity of PAU to promote the cultivation of alternative crops and their value-added processing.



A number of activities were undertaken in support of the objectives of this project during 2005:

David Hansen, **Mark Erbaugh**, **Luther Tweeten**, and **Fred Bok**, Director of the OSU Food



Industries Center, traveled to PAU in January to attend a meeting of the new Advisory Committee for the Center. While there they also participated in a one day workshop during which faculty and administrators from PAU met with their private sector stakeholders. Together they developed a strategic plan for the Center and its related Pilot Plant.

G.S. Padda, Director of the PAU Food Industries Center, and **Darshan Singh**, Dean of the PAU Post-Graduate School, visited the campus in early summer. **Padda** worked closely with **Fred Bok**, then Director of the Ohio Food Industries Center. Together they visited many food agribusinesses in Ohio and discussed the structure and operation of the Ohio program. They also discussed possible internship positions for PAU staff with the Ohio Food Industries Center and who might be potential participants in this program. **Singh** reviewed the student internship programs of the College and the structure and operation of the OSU Graduate School. He met with representatives of the college departments to discuss the internship programs which they provide to their students. He also visited OSU student interns who were placed with industries for the summer and discussed the process of monitoring and evaluation of their activities.

G.S. Chahal visited the campus later in the summer. He reviewed the current program with **David Hansen** and **Mark Erbaugh**. Together with **David Hansen**, **Chahal** attended the Annual ALO Synergy in Development Conference in Washington, D.C. where a status report, including projected activities for the following year, was presented and discussed.

Robert Birkenholz, **Susie Whittington**, **Patrick Whittington** and **David Hansen** traveled to the Punjab Agricultural University in August to present a workshop on teaching methodology. The workshop focused on student centered learning and systematic linkage of curriculum and courses to private sector needs. Much attention was given to the methodology of internships and how they feed into systematic university/agribusiness interaction, as well as to career counseling for private sector employment.

USDA Faculty Exchange Program

For the fourth consecutive year, CFAES participated in a Faculty Exchange program managed by the Office of International Cooperation in USDA. This program brings young agricultural economics scholars to the United States from regions that formerly were part of the Soviet Union for a five month period of residency at land-grant university departments of agricultural economics. Its purpose is to expose them to liberal western agricultural economics and to the U.S. land-grant university system. While on campus they attend courses being taught in agricultural economics with the purpose of modifying courses they are currently teaching at their home universities and/or introducing new courses. The program allows for some FAES faculty involved in the program to make follow-up visits to former scholars at their home institutions.

During 2005, FAES hosted the following scholars under this program:

- **Bakhodir Qushimov**, Tashkent State University of Economics, Uzbekistan
- **Ibragim Ganiev**, Samarkand Agricultural Institute, Uzbekistan
- **Iroda Rustamova**, Tashkent State Agrarian University, Uzbekistan
- **Botir Haitov**, Tashkent State Agrarian University, Uzbekistan

This project was managed by **Jeff Layman**, OSU Extension, with assistance by **Allan Lines**, Department of Agricultural, Environmental and Development Economics. Faculty participating in the project include **Donald Larson**, Principles of Agribusiness Marketing; **Steve Robeano**, Logistics Management; **Eugene Jones**, Data Analysis for Agribusiness & Applied Economics; **Alan Randall**, Research Methods; **Lynn Forster**, Principles of Agribusiness Finance; **Stanley Thompson**, Managerial Economics for Agribusiness; **Brent Sohngen**, Production and Consumption; and **Frederick Hitzhusen**, Benefit-Cost Analysis. **Edward Gerard**, USDA/FAS Program Manager, visited the OSU campus while the scholars were on OSU campus to discuss program performance and future plans.



As part of this program, **Allan Lines** visited Uzbekistan to work with former participants. While in Uzbekistan he prepared a dairy agribusiness development proposal. Subsequent to his visit, **Dr. David Hansen**, IPA Office Director, visited Uzbekistan to meet with former participants and to hold further discussion about future collaborative programs. **Stanley Thompson**, Agricultural, Environmental, and Development Economics, also visited

former participant, **Inna Novak**, Unman Agricultural University, Ukraine.

CEDAF Dominican Republic Project

The program to strengthen higher agricultural education and research in the Dominican Republic continued through this year. Under this program financed by the Dominican government, three students completed their graduate degree programs at Ohio State University and returned to the Dominican Republic.

- **Silvia de Camps** – Veterinary Preventative Medicine
- **Susana de Jesus** – Plant Biotechnology
- **Elba Yanira Disla** – Rural Sociology (Organic Farming)

A fourth student continued his PhD studies in Food Science and Technology. **Danis Feliz-Perez** expects to obtain his PhD degree in 2007 after which he will return to the *Instituto Superior de Agricultura* in Santiago, Dominican Republic. Under this program, CFAES continued to provide support for three on-going M.S. degree programs in the Dominican Republic, namely, Soils at the Autonomous University of Santo Domingo, Biotechnology at the Superior Institute of Agriculture (ISA) in Santiago, and Ecology at the National University “Pedro Henriquez Urena” in Santo Domingo.

Puerto Rico: Universidad del Este Project

CFAES continued its collaboration with the Universidad del Este in San Juan, Puerto Rico. Supported by a USDA Hispanic Serving Institution grant, this effort to establish an Executive Agribusiness M.S. degree program continued during 2005. **David Hahn**, Agricultural, Environmental, and Development Economics, provided leadership for the effort by the college to establish the degree program. During the year, several participants in the program from Puerto Rico visited the OSU campus where they



were hosted by **David Hahn**. They included **Wilfredo Colon**, UNE project director; **Jose Villanueva** and **Maritza Espina**, UNE Professors; and **Luis Rodriguez**, President of Caribbean Produce, Inc.

During the year, **Carolina Prado** completed her M.S. degree in agribusiness at The Ohio State University under the supervision of **Frederick Hitzhusen**. They, along with **David Hahn** and graduate student, **Joseph Nelson**, worked on the project in Puerto Rico, interacting with stakeholders and preparing case studies of agribusiness development which will eventually be used in classes taught at UNE.

Agribusiness Development Partnership Project with Sokoine University of Agriculture

The Agribusiness partnership project with Sokoine University of Agriculture is funded by the Higher Education for Development University Partnership Program. During the past year, the undergraduate program in this area was consolidated at the Sokoine University of Agriculture. A final report was also prepared for presentation to the HED Office in Washington, D.C.

International Seed Biology Project

The Horticulture & Crop Science Seed Biology Program actively promoted collaborative research and outreach activities with a number of international partner institutions and scientists. During the past year this program was awarded several major grants to expand these activities. With representatives of the Department of Communication Technology, they visited the University of São Paulo in Brazil, the Catholic University in Santiago, Chile, and the Chinese Agricultural University to work on development of infrastructure to make it possible to hold joint video conferences and classes. This technology was utilized for this purpose during Fall Quarter, at which time a joint class was held with the University of Sao Paulo and the Catholic University. The group also developed several state of the art teaching materials about seed technology and the regulation of seed quality which were made available on CD Rom for ease of use in presentation and distribution.

Major participants in this project activity have been **Miller McDonald** and **Mark Bennett**, Horticulture & Crop Sciences, **David Tay**, Ornamental Plant Germ Plasm Center Director, and Professors **Julio Marcos Filho**, University of São Paulo, and **Samuel Contreras**, Catholic University of Santiago, Chile. Important technical inputs have been provided by **Kenneth Kulka**, Communication Technology at OSU.

Mexican Rural Financial Markets Program with CIDE

A new program in rural and micro-finance was initiated during 2005 under the HED-managed TIES program with Mexico. **Claudio Gonzalez**, AEDE, is the principal investigator for this project and **David Hansen** is co-principal investigator. CIDE has named **Gustavo del Angel** as its co-project director. The project is with the prestigious Center for Economic Studies and Research, located in Santa Fe, just outside of Mexico City. It has several major dimensions to it, namely, graduate student training for six students from Mexico, a competitive research grants program, two workshops

annually, annual visiting professors to Ohio, and OSU professor lecturing at CIDE. The overall objective of the project is to create a capacity to be able to address rural financial markets in Mexico with a particular emphasis on improving organizational structure to facilitate innovation and increase productivity.

At a TIES conference in Guadalajara during the summer of 2005, **Claudio Gonzalez** and **David Hansen** described the project to other TIES participants. **Martha Navarro**, responsible for CIDE international programs, also visited the OSU campus to further discuss this project and other exchange opportunities between our institutions. Two graduate students from CIDE – **Adrian Carrillo-Acuna** and **Gabriela Soto-Ruiz** - initiated graduate studies in rural financial markets at OSU in January 2006. A faculty member at CIDE, **Rodolfo Cermeno**, was invited to undertake a sabbatical at OSU beginning in January 2006.



OUTREACH AND ENGAGEMENT

Indian Knowledge Initiative in Agriculture

India and the United States began planning for a major Knowledge Initiative in Agriculture for India following a visit by Indian Prime Minister, Hon. Manmohan Singh, to Washington, D.C. during summer, 2005. **Bobby Moser**, Vice President for Agricultural Administration, was tapped to be a member of the board overseeing this initiative. The IPA Office prepared materials for submission to USDA/CSREES in response to requests for information about ongoing and future potential projects. This initiative will give particular emphasis to (a) capacity building in higher agricultural education and research; (b) food processing and food quality; (c) natural resource conservation and management; and (d) biotechnology. OSU has a history of active participation in programs dealing with these four topics in India.

Cochran Program for Oman/Yemen

Three USDA Cochran Fellowship participants, 2 from Yemen and one from Oman, came to OSU in December for a 10 day short-course on Extension programming for livestock and veterinary services. Key faculty contributions came from **Tom Worley** and **Rafiq Islam**, at the OSU South Center at Piketon, and from **Kent Hoblet**, **Gary Bowman** and **Jeff Workman** in Veterinary Preventive Medicine. This program was organized and led by **Mark Erbaugh**, IPA.

Ataturk University Visiting Scholar Program

As a result of a visit made by a U.S. delegation to Ataturk University in 2002, FAES continued to receive Turkish scholars for periods of three to six months. This program, which is funded by the Turkish Government, matches faculty members from Ataturk University with hosts at The Ohio State University. During the past year, the following Turkish scientists participated in the program:

- **Murat Arslan**, School of Natural Resources, hosted by **Konrad Dabrowski**
- **Bitki Koruma Bolumu Van**, Entomology, hosted by **Clive Edwards**
- **Mahinur Akkaya**, Hort & Crop Sciences, hosted by **John Finer**
- **Cihat Ozdamir**, Food, Agricultural & Biological Engineering, hosted by **Gonul Kaletunc**

India Ambassador Visit

During Fall of 2005 **Ambassador Ronen Sen**, Indian High Commissioner to the United States, visited the OSU campus. As part of his visit, he attended a two hour seminar with faculty members of the College of Food, Agricultural, and Environmental Sciences. At this seminar he spoke to the opportunities for additional collaboration with OSU, and in particular with FAES, in India. He also learned about our past and current programs in India and was treated to a power point presentation on this involvement presented by **Dr. Rattan Lal**. He was later hosted at lunch by **Dr. Karen Holbrook**, President. **Bobby Moser**, Vice President for Agricultural Administration, also had an opportunity to hold extensive discussions with him.

University of Agricultural Sciences, Dharwad, India

P.T. Patil, Vice Chancellor of the University of Dharwad, India, visited The Ohio State University campus in December to explore collaborative research and exchange programs with FAES. He was hosted on campus by **Larry C. Brown**, Food, Agricultural and Biological Engineering. While here he visited with various scientists and scholars and presented a seminar on his university and opportunities for scientific and scholarly exchanges. This occasion was also used to sign a Memorandum of Agreement to facilitate continued exchanges, particularly in regard to the emerging Knowledge Initiative in Agriculture which is being proposed by President **George Bush** and Prime Minister **Manmohan Singh** of India.

Korean Rural Development Administration

As part of continuing interaction between the Korean Rural Development Administration and FAES, OSU was visited by **Yang Seung Choon** in November 2005. The objectives of this visit were for **Yang** to review the relationship between agricultural research and extension programs at OSU, to study the organization of the agricultural extension program in Ohio, and to discuss development of a short-term training program for extension educators from Korea at OSU. While in Ohio, he visited personnel in the IPA Office, several extension offices, including that for Franklin County, and met with OSU administrators. It is anticipated that OSU will provide this short-term training in 2006.

Faculty of Agriculture, Faisalabad

OSU hosted two visiting scientists from the Faculty of Agriculture, Faisalabad, Pakistan during 2005. **Muhammad Nisar Khan** worked with **Glen Needham**, Entomology, and **Anwar Hassan Khan** worked with **Rattan Lal**, School of Environment and Natural Resources. OSU prepared and signed an MOU with this university in anticipation of promoting additional exchanges of faculty and research scientists. Cooperative activities may include participation by the Punjab Agricultural University, Ludhiana, India, since FAES has an ongoing program with the latter and these universities serve as the principal land based universities for the Punjab region in Pakistan and India respectively.

Lithuania Agricultural Cooperatives Visit

As part of an on-going cooperative program between the Ministry of Agriculture of Lithuania and Ohio State University, FAES hosted a visit by **Jonas Josieitis** of the Lithuanian Institute of Agrarian Economics. The purpose of his visit was to follow up on activities conducted during the previous year that included a two week visit by **Demigijus Urbonas**, Director of the Lithuanian Agricultural Chamber, and **Julius Ramanauskas**, Lithuanian University of Agriculture. **John Ellerman**, formerly of the OSU Piketon Center, has been a key participant in this exchange. This program was initiated several years ago through a visit to Lithuania by **David Hansen**, IPA Office, along with **Fred Dailey**, Director of Agriculture for the State of Ohio. **Ingrida Bublys**, Honorary Counsel of Lithuania, was also instrumental in developing this cooperative program.



Collaborative Program with Hebrew University

FAES hosted a visit by **Yitzhak Hadar**, Dean of the Faculty of Agricultural, Food and Environmental Quality, Hebrew University. **Hadar** visited OSU to explore greater research collaboration as part of a broader program of bi-national trade and technology development between Ohio and Israel. This initiative includes participation by the Ohio Department of Agriculture, the Ohio Agricultural Research and Development Center, and FAES. It is funded, in part, through a grant from the U.S. Department of Agriculture and has been on-going for several years. OSU scientists interested in collaborative research met with **Hadar**. They included **Yael Vodovotz**, Food Science and Technology, **Jeff LeJeune**, Food and Animal Health Program, and **Joseph Ottobre**, Animal Science. In addition, **Hadar** met with **Bobby D. Moser**, Dean and **Steven Slack**, Director of OARDC, as well as with **David Hansen**, Director of the IPA Office.

Center for Agricultural and Forestry Development Visit

Pedro Pablo Pena, Center for Agricultural and Forestry Development in the Dominican Republic, visited the Columbus and Wooster campuses to discuss the continuation of collaborative activities between OSU and the Center. He met with students from the Dominican Republic and discussed the possibility of several faculty members giving short courses to research scientists and university faculty members in the Dominican Republic. While in Wooster he visited with **Roger Williams**, Entomology, **Michael Ellis**, Plant Pathology, and **David Francis**, Horticulture & Crop Science. He was hosted on the Columbus campus by **David O. Hansen**, Director of the IPA Office.

Kunming University Collaboration

Zhenyang Ge, Dean of the Faculty of Agricultural Engineering, Kunming University of Science and Technology, spent several months working on the Wooster campus with **Peter Ling**, Food, Agricultural and Biological Engineering. While there, he and **Ling** outlined a program of collaborative research. **Ge** visited the Columbus campus to discuss this program further with FAES faculty and with **David Hansen**, IPA Office Director. As part of this initiative, **Ge** signed an MOU with **Bobby Moser**, Dean of FAES.

Chinese Academy of Agricultural Sciences Collaboration

OSU was visited by representatives of the Chinese Academy of Agricultural Sciences (CAAS) in Beijing. FAES has maintained an active program of exchange with CAAS for the past 15 years. Members of this delegation included **Han Huipeng**, Executive Vice President, and **Lu Qingguang**, Vice President of the Graduate School, and **Wang Feng Zhong**, of the Graduate School. Also participating in the delegation were members of the Chinese Ministry of Agriculture, including **Feng Zhongze** and **Jin Fa Zhong**, Center for Agro-Food Quality and Safety, and **Cui Ye Han**, Division of Agricultural and Standards. While on the OSU campus, they met with members of an OSU delegation that visited China earlier in the year as part of an exchange program managed by the USDA. These faculty members are **Steven Schwartz**, **Ahmed Youssef**, and **Hua Huang**, Department of Food Science and Technology, and **Sudhir Sastry**, Department of Food, Agricultural, and Biological Engineering.



USDA Georgia Agricultural Quality Improvement Project

Jeanne Bartholomew completed her assignment on this project in Georgia where she worked in the rural areas to improve the quality of agricultural production and the quality of transformation of agricultural products. Upon completion of her assignment, she prepared a proposal for follow up activity dealing with youth development and extension.

Short Term Programs

Specialized short term programs managed by the IPA Office over the course of 2005 were:

- **The Leadership Study Tour.** During the period March 9-12, seventeen Deans, Associate Deans, and Department Heads from Egyptian Universities (Agricultural Economics and Agribusiness, Animal Sciences, and Horticulture), as well as private sector managers and NGO heads visited to the OSU campus. The purpose of the visit was to expose partnering universities in Egypt to a variety of organizational, management, and programmatic tools/methods/innovations to help improve their respective academic programs.
- **The Faculty Development Program.** In April the IPA staff organized mentoring activities related to course development and development of teaching materials for 22 Egyptian faculty in Animal Science, Horticulture, and Agricultural Economics.
- **The Veterinary Study Program.** The IPA staff worked with the College of Veterinary Medicine's Department of Veterinary Preventive Medicine to provide training to ten members of the veterinary medical faculty from Assiut University from October 15-November 15. This training focused on teaching methodologies for professional students in clinical/applied veterinary medicine and programming of veterinary outreach. The program was led by **Kent Hoblet**, Department Chair of Veterinary Preventive Medicine and administered by **Mark Erbaugh**, IPA.



Carbon Sequestration in Central Asia Workshop

This workshop was organized to assess the potential for terrestrial carbon sequestration in Central Asia. Sponsorship of the workshop was provided by several units on campus, including the Mershon Center, the Office of International Affairs, CIRIT, the Center for Slavic and East European Studies, the Center for Middle East Studies and the Office of International Programs in Agriculture. Co-organizers included the International Center for Agricultural Research in Dryland Areas (ICARDA), the International Center for Improvement of Maize and Wheat (CIMMYT), and USDA/FAS. Principal organizers of the workshop were **Rattan Lal**, School of Environment and Natural Resources, **Mekhlis Suleimenov**, Deputy Director of the ICARD Office in



Tashkent, Uzbekistan, and **David Hansen**, IPA Office Director. The workshop attracted scholars from Central Asian nations as well as from co-organizing institutions, Washington, D. C. and from universities on the North American continent. Major outcomes of the project include a network to pursue the potential for carbon sequestration in Central Asia (CASCANet) and a pending book of proceedings that will be published in 2006. As

part of this activity, **Raj Paroda**, Director of the ICARDA Center in Tashkent, Uzbekistan, visited the OSU campus and gave a lecture as part of the OSU Distinguished Lecture Series.

World Food Day Celebration

The Ohio State University has been an active participant in the Annual World Food Day Celebration held in October. **Mark Erbaugh**, IPA, coordinates the publicity and logistics for viewing of the national telecast by the OSU community.

In addition, **Prof. Rattan Lal** participated in a World Food Workshop at the University of Auburn. This workshop was held in conjunction with the World Food Day Celebration and included participation by numerous dignitaries, including **Catherine Bertini**, who was awarded the World Food Prize in 2004.

NEW AGREEMENTS

Various new agreements were signed in 2005 between CFAES and counterpart institutions throughout the world to facilitate additional program development. Among them are:

Egerton University	-	Njoro , Kenya
The Faculty of Modern Agricultural Engineering Kunming University of Science & Technology	-	Kunming , China
Fundación Antisana	-	Quito , Ecuador
Makerere University , Faculty of Agriculture	-	Kampala , Uganda
Sokoine University of Agriculture	-	Morogoro , Tanzania
Tashkent State University of Economics	-	Tashkent , Uzbekistan
Tomsk State University	-	Tomsk , Russia
Universidad de Belgrano	-	Buenos Aires , Argentina
The University of Agricultural Sciences	-	Dharwad , India
The University of Antioquia	-	Medellin , Columbia
The University of Zambia	-	Lusaka , Zambia

