As Omar Turay graduates from the College of Food, Agricultural, and Environmental Sciences this June, he’ll head straight for the workforce. After interning with Cargill in Virginia this past year, he landed a position as an operations associate with the Cargill Value Added Meats facility in Springdale, Arkansas.

“I like the company culture,” Turay said. “They’re really going green, and they’re trying to make an impact in developing countries.”

Turay, originally from Chicago, always knew he wanted to attend Ohio State, but he didn’t know about CFAES until he arrived on campus.

“I had a couple of conversations with my counselor and with my father, and I realized it’s just common sense: I came to realize that the most sustainable job anyone could have is in the food field. Everyone has to eat.”

Turay feels well positioned for the future.

“Just being a part of the college has helped me. My involvement in different organizations — like my fraternity and MANNRS — helped me learn from other students. And the career fairs the college offers and the mock interviews I had with Adam Cahill in the College Career Services Office helped tremendously — I went into my job interview with a lot of confidence. And, I’ve really enjoyed the professors I’ve had. They are very knowledgeable and they love what they do. During my internship, I understood everything Cargill was trying to do because of my ag econ courses and all of the courses in my major — everything just clicked.”

Turay talks to anyone who will listen about what CFAES offers.

“No matter what you’re interested in — sales, business, energy, even medicine and public health — I try to make the connection to what their degree can be used for. It’s not just ‘farm.’ And I try to tell them about my experience here. It’s been wonderful.”

---

FAST FACTS:

CFAES has a proud history of solid placement for its graduates. In 2009–10*:

- 92 percent reported being placed in jobs or graduate school.
- 75 percent were employed in Ohio.
- Average starting salary: $38,603.

* Based on 226 total responses out of 462 graduates surveyed

---

MARTHA FILIPIC
NEW AUSTRALIA STUDY ABROAD PROGRAM EXPLORES HUMAN-ENVIRONMENT CONNECTIONS

Ohio State students interested in the unique natural and human diversity of the “Land Down Under” now have a chance to explore it first-hand thanks to the School of Environment and Natural Resources (SENR).

Offered for the first time at the university, the “Sustaining Societies and the Natural Environment” study abroad program will take students on a three-and-a-half-week tour of Far Northeast Queensland, Australia — a region that boasts year-round tropical climate and some of the most diverse and remarkable natural resources in the Southern Hemisphere.

Hosted by American Universities International Programs (AuIP), the trip portion of the program runs from June 23 through July 16. Before leaving for Australia, students attend two orientation seminars and complete several reading and essay assignments.

“Australia is a very nice environment for students to learn about sustainability and the impacts of interactions between humans and natural resources,” said SENR Director Ron Hendrick, who became familiar with the AuIP program while working at the University of Georgia.

“You can learn about traditional Aboriginal and modern perspectives, all in one place.”

The program has been very well received, Hendrick said. Organizers expected 15 students to sign up, but the number of requests has reached 30 — and a few more have been put on a waiting list.

“Not only will students be thrown into a new culture and environment, but they will gain an in-depth understanding about the people and places as they experience them,” said Jennifer Sherry, a graduate student and teaching associate of Eric Toman, an SENR assistant professor who will be leading the trip.

“In some cases they will even be contributing to human communities or natural ecosystems through service projects and assisting local researchers. I think this will enhance their experience and draw more connections to a place that might initially seem very different and far from home.”

Learn more about study abroad opportunities at http://cfaes.osu.edu/studyabroad.
**Jed Bookman**, Agricultural and Extension Education, Loudonville, Ohio. He plans to pursue a master’s degree in Food, Agricultural and Biological Engineering with a research associateship in Ag Safety.

**Dan Brown**, Food, Agricultural and Biological Engineering, New Bremen, Ohio. He plans to attend graduate school at Ohio State and will work as a research associate at OARDC in Wooster studying anaerobic digestion.

**Sarah Butterfield**, Agribusiness and Applied Economics, Oxford, Ohio. She has accepted a position as a marketing representative with John Deere.

**Emily Chappie**, Agribusiness and Applied Economics, Troy, Ohio. She has accepted a position in commodity logistics at union Pacific corporate headquarters in Omaha.

**Rachel Crusey**, Agribusiness and Applied Economics, Huntsville, Ohio. She plans to work in the agricultural industry in marketing.

**Maria Goubeaux**, Agricultural and Extension Education, Versailles, Ohio. She plans to teach high school agriculture.

**Amber Hofstetter**, Plant Health and Resource Management, Kinsman, Ohio. She plans to pursue a master’s degree and has a position as a research associate in Horticulture and Crop Science studying wheat breeding.

**Hanna Lemle**, Animal Sciences, Monclova, Ohio. She has accepted a position with Cargill Meat Solutions.

**Tara Milliken**, Agricultural and Extension Education and English, West Alexandria, Ohio. She plans to work in the field of higher education and student affairs and to study abroad.

**Lyndsey Murphy**, Agricultural Communication, Mechanicsburg, Ohio. She plans to pursue a master’s degree in Agricultural Communication at Ohio State.

**Stephanie Neal**, Animal Sciences, North Canton, Ohio. She plans to attend Virginia Tech in the fall to study dairy science focusing on dairy calf nutrition and management.

**Justin Rismiller**, Agribusiness and Applied Economics, Rossburg, Ohio. He has accepted a position in commodity marketing with Cargill in Sidney, Ohio.

**Emily Severt**, Animal Sciences, Coldwater, Ohio. She will attend the College of Veterinary Medicine at Ohio State and eventually plans to work in a large-animal practice.

**Kathleen Shircliff**, Animal Sciences, Randolph, Ohio. She plans to attend graduate school to study microbiology/animal health, with an ultimate goal to earn a PhD and work in the food safety or meat industry.

**Kip Shoemaker**, Agribusiness and Applied Economics, Leesburg, Ohio. He has accepted a position with Farm Credit Services of Mid-America in Washington Court House.

**Kathryn Swinehart**, Agricultural and Extension Education, Lancaster, Ohio. She plans to attend graduate school to study Agricultural and Extension Education at Ohio State.

**Kathleen Shircliff**, Animal Sciences, Randolph, Ohio. She plans to attend graduate school to study microbiology/animal health, with an ultimate goal to earn a PhD and work in the food safety or meat industry.

**Emily Severt**, Animal Sciences, Coldwater, Ohio. She will attend the College of Veterinary Medicine at Ohio State and eventually plans to work in a large-animal practice.

**Kip Shoemaker**, Agribusiness and Applied Economics, Leesburg, Ohio. He has accepted a position with Farm Credit Services of Mid-America in Washington Court House.

**Kathryn Swinehart**, Agricultural and Extension Education, Lancaster, Ohio. She plans to attend graduate school to study Agricultural and Extension Education at Ohio State.

**Shalie Terrill**, Agricultural and Extension Education, Rushylvania, Ohio. She plans to teach high school agriculture.

**Hannah Thompson**, Agricultural Communication, Walkersville, Maryland. She has accepted a summer position with Charleston Orwig and will attend graduate school in agricultural communication at Ohio State.


**Kayla Weaver**, Agricultural Communication, Upper Sandusky, Ohio. She plans to enter the communications or public relations industry focusing on producer and consumer interactions.

**Lynn Wischmeyer**, Food Science and Nutrition, Ottawa, Ohio. She has accepted a position as a product development technology associate with Nestle in Solon, Ohio.

---

**INTERNSHIP GIVES JUMP-START ON CAREER**

Katie Soehnlen is a “quality” student. This summer, the third-year food business management student has an internship with Land O’Lakes in Kent, Ohio, focusing on quality assurance in the plant and the lab.

Soehnlen, whose father and grandfather are both food scientists, always knew she wanted a career in the food business. “I’ve always looked at food labels, not necessarily for the nutrition information, but just to see what’s listed in the ingredients.” She’s the rare consumer who can decipher much of the alphabet soup common in ingredients listings and who can use that information to assess the quality of the product.

Soehnlen got a jump-start on her career plans right after high school, when she took a summer job on the line at Superior Dairy in her hometown of Canton. “Then they needed someone in quality assurance, and I realized that I like making sure everything is working right.” During a food science class she took this year on HACCP principles (Hazard Analysis and Critical Control Points), she and other students developed a food safety/quality assurance plan for a fictitious apple juice company. Such coursework makes her feel well prepared for her field, she said.

Soehnlen combed listings on the college’s Hireabuckeye service and attended college-sponsored career fairs to find an internship this summer.

“Land O’Lakes happened to be at a career fair, and then I got an e-mail from them saying they were looking at my resume. I found a whole bunch of opportunities, but this was really a good fit.”

— MARTHA FILIPIC

CFAES recognizes how important internships can be for a student’s success. In fact, all CFAES students must complete an internship as a requirement for graduation. “Internships give our students the practical experience they need for the job market, helping them be more prepared professionally and making them more attractive to potential employers.”

— Adam Cahill, CFAES Career Development Coordinator
COW NUTRITION INNOVATION: BETTER FOR THE ECONOMY, BETTER FOR THE ENVIRONMENT

Cows provide us with dairy, meat, and many other products. But these ruminants also release lots of methane and ammonia into the environment. Methane is 25 times more potent than carbon dioxide as a greenhouse gas. And ammonia can contaminate surface waters and soils.

OARDC animal scientist Jeff Firkins has developed novel techniques to manipulate rumen protozoa — microbes inside the cow’s stomach that promote the emission of methane and ammonia. By integrating these techniques with evaluation of dairy cattle diets typical in Ohio, this research is expected to help reduce the environmental impact of livestock operations in the state and around the world.

And there are many more benefits: Because rumen protozoa waste dietary protein and energy, representing up to 90 percent of feed expenses by cattle producers, Firkins’ work can also slash production costs by boosting feed efficiency — all without compromising milk quality.

“The techniques developed by Ohio State have allowed us to better elucidate the role of protozoa in ruminal fermentation,” said Gale Bateman II, a ruminant nutritionist with Provimi North America in Lewisburg, Ohio. “We believe that Dr. Firkins’ work can assist us in predicting when different interventions will impact practical nutrition of dairy cattle on farms.”

This research holds great promise in helping Ohio’s animal industry remain a strong contributor to the state’s economic portfolio by helping farmers save $4.2 million per year from reduced dietary protein (corn and soybean meal) costs; helping producers save another $4.2 million per year by increasing digestibility of forage (alfalfa) fiber; adding $7 million in profits per year by maintaining milk fat production; and creating a multiplier effect through the various industries linked to dairy farming, which amounts to an additional $50 million in economic activity for Ohio.

OARDC’S EXPERTISE HELPS BIO-COMPOSITES INDUSTRY TAKE ROOT IN OHIO

OARDC is helping a Columbus company create a new generation of composite materials that consumers may soon find in their vehicles, houses, and many other products — growing a new industry and new jobs in Ohio.

OARDC and the Ohio BioProducts Innovation Center (OBIC) have partnered with Natural Fiber Composites Corporation (NFCC) to engineer composites from jute, soy hulls, and other plant-based sources instead of materials such as fiberglass. These natural fiber-reinforced composites can be used in a variety of transportation, construction, packaging, and industrial products.

“We take agricultural-based fibers and bio-based materials and blend them with plastic resins to create a very unique composite,” said NFCC President Prabhat Krishnaswamy.

“While we had the plastics technology well in hand, we needed help with the agricultural side of the manufacturing operation, and we were introduced to OARDC. As a result of this partnership we’ve been able to optimize and perfect our agricultural feedstock and the processing of these agricultural fibers to a production level.”

NFCC has benefited immensely from its strategic partnership with The Ohio State University and OARDC,” Krishnaswamy said. “We would not be at the pilot-plant stage of development and commercialization without this collaboration.”

The NFCC–OARDC partnership has so far created or retained 10 jobs in the supply chain in Ohio, while 12 jobs and $3 million in revenue are expected by the end of 2012. The project was also awarded a $3 million Third Frontier grant in 2009. More: http://go.osu.edu/composites.

NEW GREEN WHEAT FUNGICIDE ‘AN INCREDIBLY IMPORTANT CONTRIBUTION’

In 2009, when Ohio saw its first major head scab outbreak on wheat in more than 10 years, growers had a new Ohio State University web-based tool to manage the risk of the disease developing in their crop.

OARDC scientists developed the Wheat Fusarium Head Blight Risk Assessment Tool (http://www.wheatscab.psu.edu/) in 2000. Using weather and crop-develop-
‘Green’ Foam, 30 Jobs from Biodiesel Waste and OARDC Ingenuity

OARDC engineer Yebo Li came up with the idea. Jeff Schultheis of Poly-Green Technologies took it out of the lab. And now, a renewable source of polyurethane foam made from a biodiesel byproduct with very little value is ready to hit the market — and create up to 30 jobs in Mansfield, Ohio, within the next two years.

Made from crude glycerin and crop residue, Poly-Green’s unique bio-polyol can make polyurethane foam that is biodegradable and 5 to 10 percent cheaper than petroleum-based or natural oil-based foams. The U.S. polyurethane foam market is worth over $13 billion, including a variety of products in the construction, automotive, appliance, and other industries.

“Our goal right now is to be able to produce a product with consistent quality, which is always a challenge when you are working with waste sources,” said Li, who specializes in turning waste into renewable energy, fuels, and products. “We have been successful in demonstrating to potential end-users that our foam performs just as well as petroleum-based foam, whether for flexible- or rigid-foam applications.”

Schultheis said his company plans to enter the market this summer, producing 1 million gallons of bio-polyol annually the first two years and 5 million gallons per year by the fifth year. He credits OARDC’s partnership with the success and quick progress of this new business venture.

“Dr. Li and his students have been very motivated to try new things and perfect the formula,” Schultheis said. “They have been very cooperative, accessible, and quick to respond to the things we need to commercialize this invention in a very short period of time.”

The OARDC-Poly-Green Technologies collaboration will not only help Ohio become a leader in renewable polyurethane foam production — it will also support the state’s biodiesel industry, which has been struggling in the past few years but seeks to rebound in 2011.

“In the biodiesel industry, we need to use all of our byproducts to be profitable and sustainable,” Schultheis pointed out. “If Poly-Green Technologies is successful, we will make the biodiesel industry successful. And we will owe it to this great partnership we have with Ohio State.”

More: http://go.osu.edu/polyurethane. — MAURICIO ESPINOZA
Tiny worms are showing big benefits as environmentally friendly biopesticides. And it’s thanks to OARDC research. Insect-parasitic nematodes — microscopic roundworms — kill certain insect pests of lawns, farms, and gardens but are harmless to other forms of life, including humans. OARDC scientist Parwinder Grewal is a world expert on the subject, and his findings have led to new, safe pest-control products.

Nematodes can replace those chemicals,” Grewal said, “and enhance the safety of people and the environment.” Indeed, one of Grewal’s strains, licensed by Iowa’s Becker Underwood Inc., the world’s largest producer of beneficial nematodes, targets the No. 1 problem in most people’s lawns — white grubs. Good Nature Organic Lawn Care, with operations in Cleveland and Columbus, provides what its website calls “family friendly and environmentally responsible landscape services.”

Key to the company’s success are Grewal’s biopesticides. “Working with Dr. Grewal has given us the knowledge and confidence to treat our clients’ yards with a completely non-toxic alternative to chemical grub controls,” said Alec McClennen, Good Nature’s owner. “Dr. Grewal has been instrumental in helping us get set up to provide this service, and we’re very grateful to have his assistance. So are our (3,000-plus) customers.” The global biopesticide market is projected to reach up to $400 million by 2015, a 50-percent increase since 2005. More: OARDc’s Center for Urban Environment and Economic Development (headed by Grewal), http://oardc.osu.edu/cueed/.

Pierce Paul: “The effects of head scab can be devastating. But several approaches can be used to minimize losses.”

Scientists estimate that for every $1 directly lost due to head scab, another $2 is lost elsewhere in the wheat industry due to grain contamination and other factors. Tests show the new fungicide can cut the severity of head scab by 50 percent. It’s expected to reach market by 2014 and could save the wheat industry $1 billion a year. More: http://go.osu.edu/62.

Green Lawns, Growing Business WITH NEW, SAFE BIOPESTICIDES
In a time when job creation and business expansion are crucial to Ohio’s economic future, an Ohio State University Extension program is garnering attention.

Launched in 1986, the Business Retention and Expansion (BR&E) program has worked with community leaders in 77 of Ohio’s 88 counties, helping them prioritize, plan, and implement community development initiatives.

In the past five years alone, the program is credited with creating 897 new jobs and retaining 1,365 existing jobs. That accounts for $86 million in personal income generated.

“A large reason that we chose Van Wert was due to the assistance from Ohio State University Extension’s Business Retention and Expansion Program,” said Kim Elick, president of Braun Industries. The company, a manufacturer of custom-built ambulances, has been in business for 40 years, the past 10 in Van Wert.

Braun has worked with BR&E for a decade. “It has been a real asset to us. It’s helped us grow our business — our staffing has grown from 94 employees to 140 employees in 2011,” Elick said.

Success in BR&E has a lot to do with the chemistry of the community team, said Greg Davis, assistant director for Community Development for OSU Extension.

“The secrets for success vary from engagement to engagement,” Davis said. “We don’t work magic — it’s all about the local folks and the chemistry they bring to the table. It also has to do with timing, and the influence of state and national issues.”

“What I’ve learned in this process is that marketing is everything,” said Dan Crouse, a realtor in Warren, where more than half the city’s 100 Main Street Warren businesses work with BR&E. Some 72 percent of businesses plan to remain in Main Street Warren, creating up to 308 new jobs.

“BR&E helped debunk a lot of downtown perceptions that had stifled economic growth,” Crouse said.

INVASIVE TREES OUT, NEW JOBS IN: ‘WILL BENEFIT OHIO’S FORESTS FOR YEARS TO COME’

Invasive trees cost Ohio money, but there’s a shortage of qualified workers to fight them. So when the Ohio Division of Forestry (DOF) received a $4.4 million federal grant to change that — to train and hire Ohioans to control tree-of-heaven, common buckthorn, and others in Ohio’s state forests — it teamed up with Ohio State University Extension.

Experts in teaching and outreach, OSU Extension specialists helped lead the project’s training component. Partnering with OSU Extension let the forestry division focus on logistics: equipping, planning, and managing the efforts.

In the end, the Ohio Woodlands Job Corps, the grant’s result, created 132 new short-term jobs, improved 2,800 acres of Ohio’s state forests, and prepared the workers for long-term jobs in a growing, in-demand field.

The workers gained “credentials to make them marketable in the job market,” said Jackson-based OSU Extension forestry specialist Dave Apsley, one of the leaders of the training. At the same time, he said, their work “will have long-term positive impacts on the future of our forests.”

DOF Chief David Lytle agrees. “The training and work experiences provided these folks will benefit Ohio’s forests for years to come,” he said.

DOF and the Ohio Forestry Association both report recent declines in available skilled forestry workers.

Ohio landowners, meanwhile, have seen a jump in the incentive funds available for forest improvement.

The result, Apsley said, is that often there’s no one to hire for the work.

But that may be starting to change. So far, of the Job Corps’ first 66 members, about half have nailed down short-term employment.

“Having more people trained and available to do this work will provide additional employment opportunities in rural areas of the state and encourage good forest management,” said DOF staff forester Tom Berger.

Invasive tree species, mostly worthless, crowd out such valuable natives as oaks.

Ohio’s forest industry currently generates $15 billion in annual economic activity and supports 100,000 jobs.

KURT KNEBUSCH

SAVORING SUCCESS: ENTREPRENEUR CREDITS OSU EXTENSION’S FOOD INDUSTRIES CENTER FOR COMPANY’S GROWTH

In 1999, Dan Wampler took a risk, stepping off his career path at a major flavorings company to start his own business.

Endeavor Center Builds Southern Ohio Economy

When Wastren Advantage, Inc., began start-up operations in 2005, The Ohio State University Endeavor Center had just opened its doors as a training center and business incubator in Piketon, Ohio. Wastren was one of its first tenants.

Experts in teaching and outreach, OSU Extension specialists helped lead the project’s training component. Partnering with OSU Extension let the forestry division focus on logistics: equipping, planning, and managing the efforts.

In the end, the Ohio Woodlands Job Corps, the grant’s result, created 132 new short-term jobs, improved 2,800 acres of Ohio’s state forests, and prepared the workers for long-term jobs in a growing, in-demand field.

The workers gained “credentials to make them marketable in the job market,” said Jackson-based OSU Extension forestry specialist Dave Apsley, one of the leaders of the training. At the same time, he said, their work “will have long-term positive impacts on the future of our forests.”

DOF Chief David Lytle agrees. “The training and work experiences provided these folks will benefit Ohio’s forests for years to come,” he said.

DOF and the Ohio Forestry Association both report recent declines in available skilled forestry workers.

Ohio landowners, meanwhile, have seen a jump in the incentive funds available for forest improvement.

The result, Apsley said, is that often there’s no one to hire for the work.

But that may be starting to change. So far, of the Job Corps’ first 66 members, about half have nailed down short-term employment.

“Having more people trained and available to do this work will provide additional employment opportunities in rural areas of the state and encourage good forest management,” said DOF staff forester Tom Berger.

Invasive tree species, mostly worthless, crowd out such valuable natives as oaks.

Ohio’s forest industry currently generates $15 billion in annual economic activity and supports 100,000 jobs.

KURT KNEBUSCH

SAVORING SUCCESS: ENTREPRENEUR CREDITS OSU EXTENSION’S FOOD INDUSTRIES CENTER FOR COMPANY’S GROWTH

In 1999, Dan Wampler took a risk, stepping off his career path at a major flavorings company to start his own business.

Endeavor Center Builds Southern Ohio Economy

When Wastren Advantage, Inc., began start-up operations in 2005, The Ohio State University Endeavor Center had just opened its doors as a training center and business incubator in Piketon, Ohio. Wastren was one of its first tenants.

Experts in teaching and outreach, OSU Extension specialists helped lead the project’s training component. Partnering with OSU Extension let the forestry division focus on logistics: equipping, planning, and managing the efforts.

In the end, the Ohio Woodlands Job Corps, the grant’s result, created 132 new short-term jobs, improved 2,800 acres of Ohio’s state forests, and prepared the workers for long-term jobs in a growing, in-demand field.

The workers gained “credentials to make them marketable in the job market,” said Jackson-based OSU Extension forestry specialist Dave Apsley, one of the leaders of the training. At the same time, he said, their work “will have long-term positive impacts on the future of our forests.”

DOF Chief David Lytle agrees. “The training and work experiences provided these folks will benefit Ohio’s forests for years to come,” he said.

DOF and the Ohio Forestry Association both report recent declines in available skilled forestry workers.

Ohio landowners, meanwhile, have seen a jump in the incentive funds available for forest improvement.

The result, Apsley said, is that often there’s no one to hire for the work.

But that may be starting to change. So far, of the Job Corps’ first 66 members, about half have nailed down short-term employment.

“Having more people trained and available to do this work will provide additional employment opportunities in rural areas of the state and encourage good forest management,” said DOF staff forester Tom Berger.

Invasive tree species, mostly worthless, crowd out such valuable natives as oaks.

Ohio’s forest industry currently generates $15 billion in annual economic activity and supports 100,000 jobs.

KURT KNEBUSCH

SAVORING SUCCESS: ENTREPRENEUR CREDITS OSU EXTENSION’S FOOD INDUSTRIES CENTER FOR COMPANY’S GROWTH

In 1999, Dan Wampler took a risk, stepping off his career path at a major flavorings company to start his own business.

Endeavor Center Builds Southern Ohio Economy

When Wastren Advantage, Inc., began start-up operations in 2005, The Ohio State University Endeavor Center had just opened its doors as a training center and business incubator in Piketon, Ohio. Wastren was one of its first tenants.

Experts in teaching and outreach, OSU Extension specialists helped lead the project’s training component. Partnering with OSU Extension let the forestry division focus on logistics: equipping, planning, and managing the efforts.

In the end, the Ohio Woodlands Job Corps, the grant’s result, created 132 new short-term jobs, improved 2,800 acres of Ohio’s state forests, and prepared the workers for long-term jobs in a growing, in-demand field.

The workers gained “credentials to make them marketable in the job market,” said Jackson-based OSU Extension forestry specialist Dave Apsley, one of the leaders of the training. At the same time, he said, their work “will have long-term positive impacts on the future of our forests.”

DOF Chief David Lytle agrees. “The training and work experiences provided these folks will benefit Ohio’s forests for years to come,” he said.

DOF and the Ohio Forestry Association both report recent declines in available skilled forestry workers.

Ohio landowners, meanwhile, have seen a jump in the incentive funds available for forest improvement.

The result, Apsley said, is that often there’s no one to hire for the work.

But that may be starting to change. So far, of the Job Corps’ first 66 members, about half have nailed down short-term employment.

“Having more people trained and available to do this work will provide additional employment opportunities in rural areas of the state and encourage good forest management,” said DOF staff forester Tom Berger.

Invasive tree species, mostly worthless, crowd out such valuable natives as oaks.

Ohio’s forest industry currently generates $15 billion in annual economic activity and supports 100,000 jobs.

KURT KNEBUSCH

SAVORING SUCCESS: ENTREPRENEUR CREDITS OSU EXTENSION’S FOOD INDUSTRIES CENTER FOR COMPANY’S GROWTH

In 1999, Dan Wampler took a risk, stepping off his career path at a major flavorings company to start his own business.
According to the 4-H professionals who worked with them, the teens improved significantly before and after their training in these five workforce-skill categories:

- Thinking skills, from 3.4 to 4.3 on a 5-point scale.
- Communication, from 3.0 to 3.8.
- Teamwork and Leadership, from 3.4 to 4.3.
- Initiative, from 3.3 to 4.3.
- Professionalism, from 3.6 to 4.6.

The teens agreed, saying of their experience:

“It showed me that everything in the future is going to take more responsibility, and camp counseling was the first step in showing me how to be more responsible.”

“I have learned work ethic and have been put into a work-type environment. This has helped me to communicate, lead, organize, manage time, and to be a responsible and hardworking person.”
Whenever ATI representatives are out and about in the region, one question is sure to be asked: “How’s Hawk’s Nest doing?” The 18-hole public golf course, a fixture in Wayne County, was donated to ATI in 2007.

“The short answer,” said Rhonda Billman, ATI’s assistant director, “is ‘Just fine!’” The Ohio State University Board of Trustees was initially reluctant to accept the gift of Hawk’s Nest, fearing that it would become a financial drain on the campus. “That has definitely not been the case,” Billman said. “We’re very fortunate to have retained the personnel that operated the course before ATI acquired it, and they have done an excellent job of utilizing resources to keep the course financially sound.”

That’s an achievement worth noting, considering that these are challenging economic times for golf courses everywhere, and Hawk’s Nest is presented with a special challenge that few golf courses must take on — namely, operating as an educational facility as well as a public golf course.

During spring quarter, 45 students in ATI’s turfgrass and landscape programs spent the first five weeks of the quarter at Hawk’s Nest, where a total of four classes were held: turf practices, irrigation and drainage, turf practicum, and speech. (The speech class is taught at Hawk’s Nest so students don’t have to drive back and forth between the course and campus.)

Students undertake a variety of golf course maintenance and construction projects developed by David Willoughby, turfgrass management program coordinator, and Mark Smith, golf course superintendent. Balancing the educational needs of the students with the time allotted for classes and the requirements of the course can be trying. And then there’s the weather. As Willoughby watched the snow fly on a particularly blustery April day, he sighed, “We should have already spent nine hours on the bunkers, and because of the weather, we haven’t gotten in any.”

Other class activities go on regardless of the weather, such as the calibration of sprayers and spreaders and the maintenance of twelve other pieces of turf equipment, from mowers to tractors.

Once fickle spring finally decided to stay for good, turfgrass students tackled...
drainage installation on two bunkers and an irrigation repair and rebuild project, and other ATI students planted annuals in beds around the clubhouse and on the course itself.

Willoughby is hopeful that the block scheduling option that will be possible with the semester conversion will enable students to have longer stretches of time to devote to more complex golf course projects, such as a complete redesign of the clubhouse landscaping or the construction of a nineteenth hole.

Whatever the scheduling and weather challenges, the experience is worth it, according to second-year turfgrass management major Jackson Edwards. “Out here, we’re actually in the situations we’ll encounter on other golf courses. On campus, it’s more like a simulation. You can’t go out and measure a tee box or calculate the grade of a green.” The Massillon native is currently putting his Hawk’s Nest experience to good use in an internship at the prestigious Firestone Country Club, which hosts the World Golf Championships Bridgestone Invitational.

On a day that began at 6 a.m. with employee time cards, invoices, and a host of other non-golf-related tasks, Andrew McCormick, superintendent of Hanover Country Club’s golf course, managed to squeeze in a few minutes to discuss the career that began with ATI’s turfgrass program. McCormick, an Ohio native, is a 2001 graduate. Commenting on his morning, he said, “It’s all the stuff you don’t necessarily think of when you think ‘golf course.’”

“ATI’s turfgrass management program gave me a great foundation,” McCormick said. “Then, with experience, I took it to the next level.” As a student, McCormick interned at Westfield Group Club in Westfield Center, Ohio, and stayed on as a crew member. From there, he held two assistant superintendent positions, one at Berry Hills Country Club in West Virginia and one at the prestigious Hermitage in Richmond, Virginia. He has been superintendent at Hanover Country Club, also in Richmond, since 2008.

Part of the experience he calls upon in dealing with the day-to-day challenges at his course includes the experience of other ATI turfgrass graduates. “Nobody has a problem with me calling them or with calling me,” said McCormick. His classmates include superintendents at clubs “just up the road” in the D.C. area as well as Ohio and other states. “I talk to all my friends and ask, ‘Hey, what are you guys doing about this or that?’ There’s an enormous network out there.”

McCormick says he has achieved all of his career goals so far, including working at the U.S. Open and the Masters. And he still has one to go. He is working on a master’s degree at Virginia Tech with the goal of returning to ATI someday to teach. “I’d like to bring all my experience back home to Ohio,” he said.

Turfgrass student Matt Wise of Columbiana, Ohio, is headed to the Broadmoor Golf Club in Colorado Springs for an internship that he hopes will turn into a full-time spot on Broadmoor’s crew. A luxury five-star resort, Broadmoor will host the 2011 U.S. Women’s Open this summer.

Wise completed an internship last year at Broadmoor as well. “The turf practices class that we take prior to internship really prepares us well,” Wise said. “The internship was really helpful. I learned a lot about the golf industry.”

One of the reasons Wise chose Colorado was to experience something new: “I knew I wanted to try living in a different place.”

The other reason was an ATI connection. The Broadmoor superintendent, Michael Sartori, is also an ATI graduate.
Newly Established Endowments

The Ohio State University Board of Trustees recently approved several endowments for the College of Food, Agricultural, and Environmental Sciences.

THE DARWIN P. GERINGER MEMORIAL ENDOWED SCHOLARSHIP FUND

Established with gifts from the Benjamin P. Forbes Company of Broadview Heights, Ohio, to support one or more annual scholarships for undergraduate or graduate students majoring in Food Science and Nutrition. (Note: See feature story about this scholarship fund on page 13.)

THE WILLIAM E. GOOS MEMORIAL 4-H SCHOLARSHIP FUND

“Bill Goos loved The Ohio State University. He was an advocate of education, 4-H, and FFA. From his Talawanda High School days in FFA and Butler County 4-H times, he was passionate about pursuing excellence and held leadership positions. It is befitting in his memory that we honor his past with assisting students for the future.” — Kathryn Veder, wife of the late Bill Goos

Established with gifts given in memory of William E. Goos (BS Animal Sciences 1982) from Kathryn Isler (Goos) Veder, family, and friends to provide scholarships to students attending the main campus, a regional campus, or ATI who are from the following Ohio counties in this order of preference: Butler, Preble, Hamilton, Darke, other and who are members of 4-H.

THE ROBERT J. AND YVONNE E. GUSTAFSON SCHOLARSHIP FUND

Established with gifts from Yvonne E. (PhD Education 1993) and Robert J. Gustafson of Worthington, Ohio, to support one or more scholarships for undergraduate engineering students in the Department of Food, Agricultural and Biological Engineering.

THE KAREN A. HOLBROOK 4-H TEAM LEADERSHIP ENDOWMENT FUND

Established with gifts from 4-H friends of Dr. Karen A. Holbrook in recognition of her service to Ohio 4-H Youth Development, to support teen leadership development programs and activities within the Ohio 4-H Youth Development program.

THE OHIO 4-H SHOOTING SPORTS ENDOWMENT FUND

“In a time of financial stress in the United States and around the world, children need caring adults in their lives more than ever before. In addition to single parent and dual wage families, more and more families have dispersed in search of jobs, leaving less adult family members available for mentoring and nurturing children. Ohio 4-H Shooting Education Programs is actively recruiting, training, and supporting caring adults to be important role models in children’s lives. It’s more than shooting safety and skill development. It’s important life skills in self control, goal setting, planning to meet goals, work ethic, practice, contributing to their community, and on and on.” — Dennis Elliott, Executive, American Camp Association

Established with gifts from friends of the Ohio 4-H Shooting Sports Program to support Ohio 4-H Shooting Sports.

THE PURSCH FAMILY MEMORIAL FUND

Established with gifts from William C. Pursch (PhD Education 1982) and Lenore Wilson Pursch of Springfield, Ohio, in loving memory of their daughters, Wendy L. Pursch Stolfo and Heidi A. Pursch Yarberry (BS Horticulture 1999) to support undergraduate students who are majoring in horticulture and who are participating in study abroad programs, with preference to students studying in England.
Darwin P. Geringer was a man well-known by his kindness and generosity, as well as his Depression-era work ethic. He left a lasting impression on many as a husband, father, Korean War Veteran and Purple Heart recipient, and as the president of the Benjamin P. Forbes Company. For all these reasons and many more, the Benjamin P. Forbes Company, under the leadership of Dar’s son Keith, recently established the Darwin P. Geringer Memorial Endowed Scholarship Fund, which supports students in food science.

Dar was born in Cleveland, Ohio, in 1928 and lived on the same street in Broadview Heights for 73 years. After high school, he worked for Mr. Benjamin P. Forbes, who founded the company in 1901. Dar was drafted into the army in 1951 and served in the Third Armored Division in Korea. He stepped on a land mine in September 1951 and was hospitalized for 18 months. He was awarded the Korean Service Medal with Bronze Service Star, Purple Heart, and United Nations Service Medal. Upon receiving an Honorable Disability Discharge, he returned home to work for Forbes Chocolate and never let his disability stand in his way.

Dar was the only employee in the plant where he blended cocoa then packaged and shipped it. He attended many short courses on dairy science and learned the industry hands-on. He purchased the company in 1986 and served as president until his death in 2004, after a courageous battle with cancer.

Education was always very important to Dar. He supported the Northeast Ohio Dairy Tech Scholarship for many years and saw to it that Forbes Chocolate contributed money annually for scholarships at universities with a food science program. “It is because of Dar’s dedication and love for The Ohio State University that this scholarship in his memory is given to a deserving student,” Dar’s wife, Elaine, said. “He would be happy to know that he is helping someone to succeed in the food science program. This is a challenging industry and capable people are needed to keep up with changing technology.”

Dar was married to Elaine for 44 years. Together they had two children, Lynn and Keith, and eight grandchildren. “Dar was very proud of his family and he adored his eight grandchildren,” Elaine said.

Scarlet and gray run deep within the family and the company. Not only did Lynn and Keith both attend Ohio State, but Dar’s father also played in the Ohio State marching band in the 1920s. Additionally, nearly a third of the employees at Forbes Chocolate are graduates of Ohio State. The company has been a donor to Ohio State since 1950 and established its first endowed scholarship in 1978, the Forbes Leadership Award and Scholarship Fund, which provides a scholarship for a senior in the Department of Food Science and Technology.

Keith Geringer is now president of the company, which remains an industry leader after 110 years of business. Forbes Chocolate is one of the preeminent blenders of cocoa and flavor powders for dairies, not only for chocolate milk but also for a whole line of flavors. Forbes Chocolate also blends chocolate ice cream flavor powders and a wide range of cocoa powders, in addition to a new organic product line. All this comes with the Forbes reputation for quality-focused customer service and technical support in today’s ever-changing processing environment.

Jenny Wensink
Fallfest Sept. 10 and Reunion Weekend, Sept. 9–11
Register by Aug. 5—Fallfest at French Field House

The Ag and SENR Fallfest will be the background as the Buckeyes host the Rockets of the University of Toledo on Saturday, Sept. 10, 2011, in the ‘Shoe. Game time has not been determined at this time, but Ag Fallfest, with all of its great friendship, sharing, food, and silent auction for scholarships, will begin three hours before kickoff at the newly renovated French Field House just north of the stadium. This will be University Reunion Weekend as well so make it a big family experience and join the festivities all weekend, Sept. 9–11.

University Reunion Weekend
The University Reunion Weekend committee will host campus tours, including a tour of the Ohio Union, and a panel discussion led by WOSU’s Ann Fisher, on Friday, Sept. 9. Also, alumni who graduated in 1961 will receive a special invitation from President Gee for a Sunday brunch. For details, see http://www.ohiostatealumni.org/connections/reunions and click on “OSU Reunion weekend 2011.”

CFAES Fallfest
The CFAES Alumni Society has planned a great Fallfest for Saturday, Sept. 10, beginning three hours before kickoff at the French Field House on Woody Hayes Drive. More information will be posted on the alumni website, http://cfaes.osu.edu/alumni-and-donors/alumni/. The menu entree will feature beef and all the trimmings. Graduates of 1951 and 1961 will receive special recognition at Fallfest.

Game ticket allocation is limited this year and will require a lottery. Application for the lottery is included in this newsletter (download the PDF file of the Alumni pages to print out the form if you like). Please complete and return by the Aug. 5 deadline.

Several restrictions have been placed on who can apply for game tickets, so read the lottery application guidelines carefully before submitting. All Fallfest applications must be postmarked by midnight, Aug. 5, to qualify for the lottery drawing to be conducted on Aug. 11.

Notification of lottery winners and non-winners will be completed by e-mail, unless you do not have an e-mail address. Please be certain your e-mail address is legibly listed on your application. This process will be completed by Aug. 17 at the latest. Non-winners will also be notified and checks will be shredded unless you specify they be returned to you.

Silent Auction
As always, the Society will be conducting the annual silent auction to benefit the CFAES Alumni Society Undergraduate Scholarship Endowment Fund, which supports three to five students each year with financial assistance. If you have an item to donate, please check the box on the application, and our auction committee will be in touch with you for details. Unique Buckeye items seem to draw the best activity on auction day.

If you cannot attend this year but want to support the scholarship fund, you can contribute an item to the silent auction, or the society will gladly accept any size cash tax-deductible donation you might want to make to the scholarship endowment fund. Checks should be made payable to The Ohio State University for any cash donation to the scholarship fund.

Again, join us for Reunion Weekend Sept. 9–11 for tours of campus, Saturday’s Fallfest, and the brunch (by invitation only) on Sunday. It will be a great time!

Lottery Application Guidelines
We expect the demand for this game to exceed our supply and thus a lottery will be held to determine the ticket allocation. Tickets will only be available to those alumni who are graduates of the College of Food, Agricultural, and Environmental Sciences including Natural Resources and ATI, and are dues-paying members of The Ohio State University Alumni Association, Inc. Tickets must be purchased with Fallfest tickets. You are limited to two tickets per household, not per membership. It is our desire to maximize the number of alumni who can attend Reunion Weekend. The person purchasing the tickets must be the person who uses the tickets. Anyone caught reselling their tickets may lose future rights to purchase football tickets through the Alumni Association and our society.

Alumni who receive season tickets via President’s Club, Buckeye Club, Faculty/Staff/Staff/Student, Varsity O Men football, or long-time season ticket purchase holders WILL NOT be eligible to receive tickets through Society Reunion Weekend, but we hope you will join us for Fallfest. Alumni who receive tickets to the Toledo game through the Alumni Association’s lottery will not be eligible to receive tickets through Reunion Weekend or Fallfest, and again we hope you will join us for Fallfest. Alumni who receive tickets to the Toledo game must comply to this policy.

If you have any questions, please write to miller.64@osu.edu or pasternak.6@osu.edu. Thank you, and we look forward to seeing you in September!
we are looking for top-flight CFAES alumni to recognize at the 2012 CFAES Alumni Society Awards luncheon to be held on Saturday, March 3, 2012, at the Fawcett Center on The Ohio State University campus.

We seek your assistance in nominating your friends, colleagues, and fellow alumni in a wide variety of occupations and careers for Meritorious Service, Distinguished Alumni, International Alumni, and Young Professional Achievement Awards.

With over 36,000 living alumni of the college who live and work around the globe, doing all sorts of great things in their professions and communities, we know you can help us identify a large pool of candidates from which the committee can select the best of the best for 2012.

“we are looking for a pool of candidates that clearly represents the broad array of careers and service sectors, both profit and non-profit, our alumni are involved in, and that clearly represents the contributions our women and men have made to their professions, industry, and communities,” said Jim Leonard, president of the CFAES Alumni Society. “This includes business, production areas, education, research, government, natural resources, community service, and many more.” So take a few minutes to think about your associates and friends from your Ohio State days and nominate a person worthy of recognition as an outstanding CFAES alum.

“The Alumni Awards program is a pinnacle moment in the lives of the alumni recognized each year, and is a highlight of my activities each year,” said Vice President and Dean Bobby Moser. Help another alumnus have a pinnacle moment by downloading the nomination form from the college website at http://cfaes.osu.edu/alumni-and-donors/alumni/alumni-awards-program/ or contact Amber Pasternak at 614-247-2745 or pasternak.6@osu.edu.

Criteria for each of the four categories of awards, as well as a list of prior recipients in each, are located on the college website. All nominees must be living at the time of selection for the awards for 2012. Nomination deadline is October 1, 2011.

---

Fallfest and University Reunion Weekend Registration Form
College of Food, Agricultural, and Environmental Sciences

Name ____________________________
Graduation Year __________________
OSU Alumni Association Member Number __________________
Guest Name(s) ____________________
________________________________________________________________________
Address _____________________________________________________________________
________________________________________________________________________
City ____________________________________________ Zip Code ______
State ____________________________________________
Day Phone ( ) ______- ________ Night Phone ( ) ______- ________
E-mail ____________________________________________
________________________________________________________________________

Friday Events (Reunion Weekend)
For more information please visit http://www.ohiostatealumni.org/connections/reunions/ or call 1-800-862-5827.

Saturday Events—AG FALLFEST and GAME
Football Tickets ($75) Limit of two per household and FALLFEST ($19) # Attending @ $94 each $ ____________
FALLFEST Meal Only # Attending @ $19 each $ ____________
ADDITIONAL SCHOLARSHIP DONATION $ ____________

TOTAL DUE $ ____________
(Check Payable to The Ohio State University)

_ I would like to request special seating accommodation: wheelchair accessible or limited stairs (circle one)
_ I have a silent auction item to donate. Please contact me.
_ I am available to assist with set-up on Friday, Sept. 9 at 5:00 p.m.
_ I am available to help with Fallfest on Saturday, Sept. 10.
_ If available, I would be interested in two additional game and meal packages.

Registration form and check must be postmarked by Aug. 5 and mailed to:
Ray Miller, Alumni Coordinator Room 100 Ag Admin Building
2120 Fyffe Road
Columbus, OH 43210

Clip and send this registration form with check payable to The Ohio State University postmarked by Aug. 5, 2011. Confirmation will be by e-mail, if provided, as soon as possible, but within the week.
As Ohio works on a budget that will carry it through the next two years, it will grapple with an $8 billion shortfall. Governor Kasich and the state legislature face difficult decisions as they work to balance the state’s budget.

While the budget will not be finalized until the end of June, versions released by the governor’s office and then by the House of Representatives have been quite favorable to OSU Extension, the Ohio Agricultural Research and Development Center, and to higher education. We are extremely grateful that our elected officials consider us a priority.

We prepare students to contribute and succeed in one of Ohio’s most important industries: the $107 billion food and agriculture sector. Our research, in partnership with business, leads to job creation. Our Extension programming helps prepare a ready workforce, helps communities retain and add jobs, and helps business owners — including farmers — remain profitable.

In partnership with our elected officials, we look forward to continuing our impact on Ohio and beyond.