Providing Access and Affordability to Our Students

MATTHEW MARX

At nine recipients and counting, the Delma L. Roush Scholarship Fund is rapidly providing southeastern Ohio with greater access to a more affordable education at The Ohio State University.

The fund, created through an historic $7 million estate gift from the late Delma Roush to The College of Food, Agricultural, and Environmental Sciences, illustrates how donor generosity changes lives and forges a brighter future.

The number of Ohio State students benefiting from the endowment fund has tripled in its second year, and even more are anticipated in future years. All recipients hail from Gallia, Jackson or Meigs counties, as per the fund’s requirements.

“The scholarship for me is an absolute blessing,” said Kaci Bryant, a sophomore from Vinton, Ohio, majoring in animal bioscience. “Instead of taking out school loans, all I have to do is keep my grades up.”

After spending her summer training horses, barrel racing, giving horse-riding lessons and volunteering at a local veterinary clinic, Bryant is taking 18 credit hours this semester. She is hoping to take another Study Abroad trip in January. A trip to Nicaragua last
What does CFAES do to ensure the college’s programs are accessible and affordable for all students?

CFAES has a real advantage in ensuring access to an Ohio State degree pathway because of its presence on both the Columbus and Wooster campuses. Our full set of majors and minors in Columbus lead to four-year degrees that are highly sought after by employers and professional and graduate student recruiters. Our two-year Ohio State ATI program in Wooster ensures that all students interested in an Ohio State agricultural degree have the opportunity to pursue success.

A student enrolling at Ohio State ATI can complete an associate degree and enter the workforce directly or can choose to move to Columbus to complete his or her four-year degree with two years of coursework already completed.

In order to assure access, we also need to attend to the affordability of a college degree. Data continue to show that college graduates have increased lifetime earning potential, but that college degree must be cost effective. Scholarship support helps us assist students and their families achieve their dream of a degree. One great example of this support is the Roush scholarship program that we have recently established, courtesy of the generosity of the late Delma Roush. Students from Ohio’s Gallia, Jackson and Meigs counties now have the opportunity for full scholarship support for their studies in CFAES. This sort of support from thoughtful donors is a game-changer in the lives of potential students.

Find more information about how gifts to the College of Food, Agricultural, and Environmental Sciences can change lives at cfaes.osu.edu/development or call 614-292-0473.

New Roush scholar Briggs Shoemaker is a sophomore from Thurman, Ohio.

The College of Food, Agricultural, and Environmental Sciences awarded philanthropic scholarships to 879 undergraduate students during Fiscal Year 2015.
Having an unusual upbringing and exhibiting uncommon initiative and resolve, Rohini Desai Mulchandani has broken barriers throughout a remarkable, inventive career and an impactful, generous life. Unlike many young women growing up in mid-20th century India, Mulchandani had parents who gave her the opportunity to "follow her dreams," even if that meant "losing a child to America." At age 19, after graduating from the University of Bombay (Mumbai) with a BS (Honors) degree in chemistry and a minor in physics, she arrived in the United States in 1964 to attend graduate school.

"Getting a doctorate was actually my father's suggestion at first," Mulchandani recalls. He agreed to help pay for the first year of graduate school using her "marriage money"—funds intended to pay wedding expenses of a female child. Paying for the rest of her education was left up to her.

Working as a graduate assistant, she earned her master's degree in food science from Michigan State University in 1966. That fall, she came to The Ohio State University on another assistantship in order to earn her doctorate in dairy technology. She was a full-time student for three years, and following marriage and a five-year break, returned as a part-time student while working full-time at Ross Laboratories in Columbus, the nutritional products division of Abbott Laboratories.

In order to complete the research needed for her doctoral dissertation, she worked in the lab at Vivian Hall (now a parking lot) after hours and on weekends. It was 1975.

"At the time, women were not permitted in the building after 7 p.m.,” she said. So she had to assume responsibility for her own safety in order to receive the same 24-hour access to facilities as men had. She received her PhD in 1976.

In the early years as a food scientist
Rohini Mulchandani was inducted into the CFAES Food Science and Technology Hall of Distinction in 2014.

at Ross, she worked on many products including Similac, Isomil and Ensure. Her doctoral research project was an extension of a Ross effort to perfect an add-on heat treatment in the processing of nutritionals to improve shelf stability.

“I entered Ross Labs as a novice food scientist and emerged years later as a product developer,” she said. “The transformation was so subtle that I didn’t realize it until a few years ago. The hands-on training I received at ‘Ross U’ was tremendous, and helped me, later on, to successfully transition into the role of ‘chutney lady’, where I was both product developer and business owner/operator, all wrapped in one.”

In 1998 she founded Arjay Gourmet Foods, Ltd. She began the chutney business by selling gourmet condiments and seasonings at local farmer’s markets, festivals and stores, and later expanded the territory, driving to numerous states east of the Mississippi River. “It was a very different life from the one I had known as a scientist. But I loved every minute of it.”

Throughout her careers, Mulchandani developed and/or commercialized 27 new products for sale in the United States and abroad, authored two patents, and won several awards both as a scientist at Ross and for her products and activities as a business owner. While she acknowledges that she accomplished this mostly through her own drive and determination, she credits her parents for their progressive parenting style in raising a daughter.

“I know that not all girls in my school or college in India were nurtured in this way,” said Dr. Mulchandani, now a grandparent herself and semi-retired from the chutney business. “Also having chosen a career in the sciences, I have worked in a ‘man’s world’ most of my life, and my strong sense of self has served me well. I am ever grateful to my parents for giving me such a healthy start in life.

“They expected nothing in return, instead instilling in me a strong sense of ‘paying forward.’

Dr. Mulchandani has since made a generous donation to endow Ohio State’s Department of Food Science to partially fund activities of the Product Development teams in her name and during her lifetime, and established a legacy endowment in her parents’ names to fund, posthumously, one yearly graduate assistantship.

NOURISHING THE FOOD INDUSTRY

With guidance from its Industry Advisory Board, The Wilbur A. Gould Food Industries Center (foodindustries.osu.edu) assists food companies and entrepreneurs with processing, product development, scale-up assistance, and professional development courses, said Valente Alvarez, center director.

Established in 1982, the center has two pilot plants and a food analysis lab. The dairy plant, in the Parker Food Science and Technology Building, focuses on milk, cheese, yogurt, ice cream, and beverages.

The food processing plant in neighboring Howlett Hall has commercial licenses for bottling, canning, baking, and frozen foods, allowing clients to process foods for sale.

The facilities are used by food companies and entrepreneurs 70 times a year, on average.

The pilot plants also support eight to 10 academic courses annually, serving up to 500 students.
Beck’s Hybrids Donation Furthers Water Quality Research, Farm Science Review

A $1 million boost from Beck’s Hybrids will advance water quality research and the college’s Farm Science Review. “We are supporting Field to Faucet and the Review because they are important to farmers, and farmers are important to us,” said Scott Beck, president of the company.

Nutrient stewardship is the name of the game for three research projects Greg LaBarge is launching this year, thanks to a $500,000 gift from Beck’s Hybrids for Field to Faucet.

“We’re looking at nutrient stewardship from the standpoint of crop production efficiency and water quality,” LaBarge said. He is a field specialist for Ohio State University Extension, the outreach arm of the College of Food, Agricultural, and Environmental Sciences.

The college launched the Field to Faucet program shortly after dangerous microcystin levels from harmful algae in Lake Erie shut down Toledo’s water supply for two days in August 2014. The program’s goal is to ensure safe drinking water while maintaining an economically productive agricultural sector. Phosphorus, an important nutrient for crop production, can lead to hazardous algal blooms in lakes.

One project, being done in conjunction with Kevin King, an agricultural engineer with USDA-ARS housed at Ohio State, will establish a “paired” edge of field site to monitor surface and subsurface water for nutrient runoff, LaBarge said. “Paired” means that the fields are side-by-side or near each other. In the first two years of the study, the same management practices will be applied to both fields as researchers check water coming from the fields for nutrient levels.

In the third year of the study, researchers will use a standard farming practice on one field, and apply a different practice on the paired field to see if the change in management affects the amount or type of nutrients that leave the field.

Another study will review the nutrient efficiency of different placement of nitrogen and phosphorus in test plots. Researchers will review the impact on yield, soil test levels, fertilizer runoff and economics. The third study will look at how tile spacing—from 75 feet to 60 feet apart—affects water movement through soils.

Beck’s also donated $500,000 to support efforts at Ohio State’s Farm Science Review, a three-day educational and trade show held each September at the Molly Caren Agricultural Center outside London, Ohio.

“We know farmers work hard to protect the environment, and we hope our support of Field to Faucet will give them more tools to protect Ohio’s water resources,” Beck said. “And FSR is where many in agriculture go to learn about the latest in farming.”

Beck’s owns property adjacent to the Review site, where the company will highlight its joint research with Extension.

“Beck’s Hybrids’ great generosity will go far in advancing the objectives of Field to Faucet,” said Bruce McPheron, Ohio State’s vice president for agricultural administration and dean of CFAES. “Clearly, Beck’s shares our goal of identifying best practices for nutrient management. And their support of Farm Science Review—the largest university-sponsored event of its kind in the country—will greatly enhance our outreach effort.”

“By cooperating with Ohio State on these water quality projects and supporting the mission of the Farm Science Review, we want to help farmers become more productive and successful while protecting Ohio’s important natural resources,” Beck said. “We expect this to be the beginning of a long partnership with the College of Food, Agricultural, and Environmental Sciences at Ohio State.”
When John and Marilyn Miller pledged $100,000 to the Food Engineering Research Laboratory Fund, they sought a matching donor. The Haskell Company, a design, engineering and construction firm based in Jacksonville, Florida, agreed, and as a result, the Millers’ $100,000 gift became a $200,000 gift.

Matching Donation Benefits Clean-In-Place Research

The donation benefits research of Clean-In-Place (CIP) processes and related activities at The Ohio State University College of Food, Agricultural, and Environmental Sciences.

“Research is the key to all of this,” Miller said. “You have to have the hard data and it has to be done by a reputable organization, and universities are the place to make this happen.”

Matching the Millers’ donation benefits everyone, said Paul Tyler, senior vice president—Food & Beverage Division, The Haskell Company.

“The technology that comes out of the research in that lab is for the benefit of all—not just our customers, but the end result is safer, higher-quality food for consumers,” Tyler said.

The Haskell Company acquired Seiberling Associates two years ago, where John Miller served as president until his retirement in 2014. Haskell matched the Millers’ fund to acknowledge his accomplishments in the industry, Tyler said.

“He is a very big supporter of Ohio State. It was important for us to show the same support. The research they are doing is directly related to the business we are in. It helps our engineers and it helps our customers,” Tyler said.

The Millers’ gift honors the late James Harper, a longtime CFAES professor. John is a college alum and Marilyn works in the Ohio State College of Dentistry. Thus, giving to Ohio State for research purposes was an easy choice.

“Cleaning is not the most exciting subject, but it is one of the things that are absolutely crucial to running a food business,” he said. “The number one use of water in a food plant is cleaning. We can reuse 90 percent of the water. … The technology is there. You have to make it cost-effective,” Miller said.

Clean-In-Place is a cost-efficient system to clean machine parts without disassembly. The system’s principles were developed by Dale A. Seiberling (BS 1950, MS 1951, Dairy Technology), who founded Seiberling Associates. Seiberling’s gifts to the college include an endowment of the Dale Seiberling Professorship in Dairy and Food Engineering, held by Dennis R. Heldman, PhD. Learn more about Seiberling, who received the Ohio State University Alumni Association’s Professional Achievement Award in 2014, at go.osu.edu/seiberling.

To learn more about corporate partnerships, contact the CFAES Development Office at 614-292-2957.
Like many students enrolled in the College of Food, Agricultural, and Environmental Sciences at The Ohio State University, Holly Hueilmeier has received financial assistance in the form of scholarship.

“Getting that scholarship from the college really motivated me academically and it made me want to come here because it made me feel wanted,” said Hueilmeier, a freshman from Georgetown, Kentucky. “It motivated me to strive for academic excellence because I know that there is someone behind me.”

Offering scholarships—which are supported through donations—helps the college attract top students who are selecting from competing institutions.

“College is an investment and we have a team in place to see how we can enhance that investment,” said Jill Tyson, CFAES coordinator of prospective student services.

Most years, about three-fourths of students who paid their acceptance fees received scholarships, said Pat Whittington, assistant dean of student development for the college.

Before deciding to attend Ohio State, Hueilmeier visited Purdue University, the University of Michigan, the University of Cincinnati, and the University of Kentucky.

“No other university pursued me in the way that Ohio State pursued me,” she said. “I feel empowered.”

While the Department of Food, Agricultural and Biological Engineering appealed to Hueilmeier, she wasn’t entirely sold on Ohio State until her second visit, when she toured the CFAES campus and met with faculty.

“It wasn’t just the money, because I would have come here anyway after seeing the community here,” Hueilmeier said.

Hueilmeier said she made the “life-changing decision” to attend Ohio State after winning the George B. Durell Memorial Scholarship (601869), a renewable scholarship for students in the college. In addition, she earned an award from the Joseph D. Blickle Educational Development Fund (600592), which supports students in agricultural engineering.

Benefiting from scholarships has also inspired Aaron Miller, of Amanda, who majored in agriscience education.

“That’s a real selfless thing they’re doing,” Miller said of donors Sue and Walt Bailey, who created the Sue and Walt Bailey Endowed Scholarship Fund (640262), which supports Ross County students majoring in food science and nutrition or agriscience education, and the Sue and Walt Bailey Scholarship Fund (312983), which supports undergraduates in food science and nutrition.

“Eventually, when I get settled, I want to create a scholarship, too, to pay it forward,” Miller said. “My life is going to be easier as a result of the scholarship and I want to do that, too.”

Miller, who received the scholarship for students in Ross County, said the award has brought plenty of stability to his family situation and has meant that he will worry less about paying off student loans.

He student taught at Southeastern High School in Chillicothe in the spring, where he taught agricultural construction, natural resources, animal science and student leadership.

More information about donations and the impact of giving to the College of Food, Agricultural, and Environmental Sciences can be found at cfaes.osu.edu/development.
Organizations and individuals are finding many ways to give back and get more involved with The Ohio State University College of Food, Agricultural, and Environmental Sciences.

Among the donors is Farm Credit Mid-America, a customer-owned agricultural lending cooperative. Gifts and pledges from Farm Credit Mid-America support college scholarships, Ohio 4-H, the Center for Cooperative, Business and Community Education and Development, and other CFAES programming.

That generosity is not lost on its beneficiaries, including Daniel Shinkle, a scholarship recipient during Fiscal Year 2015. “It helped a tremendous amount in that it alleviated concerns and takes the pressure off of tuition, Shinkle said.

Now a junior majoring in agribusiness and applied economics, Shinkle, of Waynesville, Ohio, is president of Alpha Gamma Sigma Fraternity and he has been involved in the Agribusiness Club.

He is thankful for the opportunities presented to him since being awarded the scholarship and thankful for donors, whose organization he had first learned about in high school. “It says a lot about Farm Credit and it says a lot about the people and their willingness to give back.”

That was an easy decision for Farm Credit, regional vice president Wendy Osborn said. “When we think of what we want to give to, we think of our customers’ expectations. We are really passionate about agriculture.

“Many of our customers are alumni of the College of Food, Agricultural, and Environmental Sciences, Osborn said. “We are grateful and passionate about the experience that we had and the education we received.”

Partnerships like these are important because of the significant changes in the agriculture industry for the next generation, she said. “Ohio State and Farm Credit both are focused on the future. We can work together to meet those needs to help students be prepared. We have great industry knowledge and we know that the university can help prepare students to be leaders in the agriculture industry.

The college provides many different options for donating and engaging student organizations. That allows Osborn to better see the impact of Farm Credit’s involvement, she said.

“When we are able to attend events and be engaged with the students and hear from the students about their experiences that they are receiving that makes us feel really proud.”

**CAMPBELL DONATIONS ARE ACCEPTED IN THE FOLLOWING WAYS:**

- **Annual Gifts** – Create a named current use fund. Or contribute to an existing fund, which will provide immediate funding for scholarships, academic and research programs.

- **Special Gifts** – Demonstrate commitment to supporting our mission by establishing permanent endowed funds for scholarships, research, equipment, fellowships, faculty positions or a variety of other areas.

- **Planned Gifts** – Contribute to the future of the college through a planned gift such as a bequest or charitable trust.

- **Corporate Matching Gifts** – Your contribution to CFAES might qualify for a matching gift from your employer, your spouse’s employer, or your previous employer if you are retired.

- **Gifts-In-Kind** – Help the college create the best possible educational environment for our students, support faculty teaching/research or help maintain facilities with a gift-in-kind of assets or materials.

See cfaes.osu.edu/development/areassupport/ways-give for more information about each of these ways to give. Contact the CFAES Development Office at 614-292-0473 or delisio.24@osu.edu.
Positive Jobs Report of Recent CFAES Grads Attracts New Students to the College

TRACY TURNER

The success of recent graduates of the College of Food, Agricultural, and Environmental Sciences at The Ohio State University is attracting more students who want to enroll in the college, school officials said.

The career outcome rate of 92 percent of recent CFAES graduates reporting either having a job or being enrolled in an advanced degree program within six months of graduation, is a positive draw for new CFAES students who want to earn a degree from the college, said Jill Tyson, CFAES coordinator of prospective student services.

As of May 25, admissions applications for the college have increased by 5 percent over last year, with 1,252 students who have applied to CFAES this year, compared to the 1,192 students who applied last year, she said.

As of May 25, 555 students have been admitted to the college, an increase of 4.1 percent over the previous year when 533 students were admitted, Tyson said.

“Our career outcome rates speak volumes about the value of an Ohio State degree,” she said. “The opportunities our graduates have in terms of promotions, earnings and successful careers following graduation is a huge draw for new students.

“The opportunities that our college offers students, including study abroad, research, internships, alumni connections and networking, a diverse student population and diverse faculty—in addition to being located in a great city, is also a part of why students choose to come to Ohio State. Prospective students are also attracted to the scholarship opportunities we can offer our students, thanks to the support of our alumni and donors.”

Interest in attending The Ohio State University Agricultural Technical Institute (ATI), the associate’s degree-granting school of the college, is also on the rise, Tyson said.

For the 2015–2016 academic year, the number of admitted students increased 5.1 percent to 556 compared to 529 students admitted the previous year, she said. The number of students who applied for ATI has also increased 4.2 percent, to 641, up from 615 students who applied the previous year.

Negative Jobs Report of Recent CFAES Grads Attracts New Students to the College

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Ohio 4-H offers 41 college scholarships in 2015, providing students with a total of $53,960 in aid. See go.osu.edu/4Hscholwins.

For Ohio 4-H scholarship information, see go.osu.edu/4Hschol.