



ANNUAL REPORT | 2017

USPOULTRY Foundation Allocates \$282,500 in Student Recruiting Grants

The USPOULTRY Foundation has awarded student recruiting grants totaling \$282,500 to the six U.S. universities with poultry science departments and 29 other institutions with industry-related programs. The Foundation provides annual recruiting and retention funds to colleges and universities to attract students to their poultry programs. The grants were made possible by gifts to the Foundation from companies, individuals and families. The six poultry science departments receiving the grants are:

<u>Institution</u> Auburn University	Grant Amount \$21,667	Grant Made Possible in Part By: Ingram Farms
Mississippi State University	\$22,816	Sanderson Farms
North Carolina State University	\$25,115	Stanley & Dorothy Frank Family Foundation
Texas A&M	\$34,138	Tyson Foods
University of Arkansas	\$25,920	Monty & Margot Henderson Recruiting Fund
University of Georgia	\$20,345	Leland Bagwell Education and Innovation Fund

The 26 other institutions with industry-related programs receiving recruiting and retention grants under the Foundation's Industry Education Recruitment Funding Program are:

Institution	Grant Amount	Grant Made Possible in Part By:
Abraham Baldwin Agricultural College, Ga.	\$7,000	Don Dalton Student Recruiting Fund
California Polytechnic State University, Calif.	\$6,600	AJC International
California State, Fresno, Calif.	\$4,620	
Clemson University, S.C.	\$2,995	Leland Bagwell Education and Innovation Fund
Crowder College, Mo.	\$6,685	Hollis P. Osborne Family
Eastern Oklahoma State College, Okla.	\$2,440	Simmons Foods
George C. Wallace Community College, Ala.	\$3,500	
Iowa State University, Iowa	\$2,100	West Liberty Foods
Jones Junior College, Miss.	\$1,200	
Louisiana State University, La.	\$4,000	Sanderson Farms
McNeese State University, La.	\$1,345	Cal-Maine Foods
Modesto Junior College, Calif.	\$6,500	
Murray State University, Ky.	\$7,000	Shepard Exposition Services
Ohio Śtate University, Ohio	\$4,620	Cooper Family Foundation
Oklahoma State University, Okla.	\$2,995	George's Inc.
Penn State University, Pa.	\$10,000	Perdue Farms
Purdue University, Ind.	\$6,865	Midwest Poultry Services
Sam Houston State University, Texas	\$2,310	Jerry and Cherie Moye
South Dakota State University, S.D.	\$1,200	Jennie-O Turkey Store
Stephen F. Austin State University, Texas	\$6,6200	Frost PLLC
University of Delaware, Del.	\$3,000	Valley Proteins
University of Minnesota, Twin Cities, Minn.	\$4,225	GNP [´] Company
University of North Georgia, Ga.	\$7,000	Leland Bagwell Education and Innovation Fund
University of Tennessee at Martin, Tenn.	\$1,800	Hubbard Farms Charitable Foundation
Tennessee Technological University, Tenn.	\$7,100	Hubbard Farms Charitable Foundation
Wallace State Community College, Ala.	\$4,620	Peco Foods
Wayne Community College, N.C.	\$4,295	Case Farms
West Virginia University, W.V.	\$3,265	Cargill
Wilkes Community College, N.C.	\$6,600	Prestage Farms



A USPOULTRY Foundation check is presented to the University of Arkansas Poultry Science Department. Pictured (left to right) are Poultry Science Club members Lesleigh Beer; Zakary Arban; Monty Henderson, retired, George's Inc., and past USPOULTRY chairman; Dr. Mike Kidd, department head of the Poultry Science Department and director of the Center of Excellence for Poultry Science; Marvin Childers, president and chief lobbyist for The Poultry Federation; Joshua Flees; and Michael Kidd.

USPOULTRY Foundation Announces New Expansion of FFA Students at IPPE; National Officer Candidates Attend

At the 2017 National FFA Convention & Expo in Indianapolis, Ind., USPOULTRY Foundation President John Starkey announced a new expansion of the USPOULTRY Foundation's support for the National FFA Organization with an invitation to the National Officer Candidates to attend the International Poultry Expo (IPE), part of the International Production & Processing Expo (IPPE). This new Foundation initiative is designed to further attract students to the poultry and egg industry.

The National Officer Candidates received an all-expense paid trip to the 2018 IPE in Atlanta, Ga. This opportunity was made possible in part by an endowing Foundation gift from Tyson Foods.

The students participated in a program led by poultry industry leaders that informed them of the numerous career opportunities in the industry. Additionally, they had an opportunity to visit the vast trade show floor to see the exciting technology used by today's modern, sustainable poultry industry. These college freshmen and sophomore students were also eligible to participate in the USPOULTRY Foundation College Student Career Program, in which students are interviewed for job opportunities in the poultry industry.

"We are thrilled more than 20 of these proven FFA leaders attended, and we know our member companies looked forward to interviewing these students," remarked John Starkey, president of USPOULTRY. "The USPOULTRY Foundation is excited to announce this new expansion of our relationship with the National FFA. We are pleased to be able to offer these officer candidates an opportunity to experience the world's largest annual trade show for the poultry and egg industries," added Starkey.

USPOULTRY Foundation Sponsored FFA Students to IPE

The USPOULTRY Foundation sponsored an all-expense paid trip to the top 11 teams of the National FFA Poultry Evaluation Career Development Event (CDE) and the top 10 teams of the Food Science and Technology CDE to the 2018 IPE. This is an ongoing initiative by the Foundation to further attract students to the poultry and egg industry.

The opportunity for teams of the Poultry Evaluation CDE to attend was made possible in part by endowing Foundation gifts from Prestage and Sanderson Farms. The opportunity for teams of the Food Science CDE to attend was made possible in part by endowing Foundation gifts from Pilgrim's and Cargill.

"This is the fourth year we've brought CDE winners to IPPE. The program has quickly become one the students, our member companies and exhibitors, as well as the staffs of FFA and our Foundation look forward to each year," remarked Barbara Jenkins, executive director of the USPOULTRY Foundation.

The following Poultry Evaluation CDE teams were invited to attend IPPE. Their awards were presented by David Jones, director of human resources, Perdue Farms, and are listed in their order of finish: Lincoln FFA, Arkansas; Sandra Day O'Connor FFA, Texas; Spring Hill FFA, Kansas; Thorsby FFA, Alabama; Grace-Davis-Modesto FFA, California; Columbia FFA, Missouri; Texico FFA, New Mexico; Watts FFA, Oklahoma; James River FFA, Virginia; Paxton-Buckley-Loda FFA, Illinois; and Crest FFA, North Carolina.

The following Food Science and Technology CDE teams were invited to attend IPPE. Their awards were presented by USPOULTRY Foundation Chairman, Jerry Moye, Hendrix Genetics, and are listed in their order of finish: Louisburg FFA, Kansas; Cashmere FFA, Washington; Oley Valley FFA, Pennsylvania; Hillsdale FFA, Ohio; Lincoln Middle FFA, Arkansas; Jackson County Central FFA, Minnesota; Kindred FFA, North Dakota; Rochelle FFA, Illinois; Meridian FFA, Idaho; and DeKalb FFA, Indiana.



FFA National Officer Candidates, pictured with U.S. Secretary of Agriculture Sonny Perdue

\$1,030,000 Allocated for Research Funding in 2017

USPOULTRY and Foundation Approve \$744,000 in New Research Grants through Comprehensive Research Program

USPOULTRY and the USPOULTRY Harold E. Ford Foundation approved a total of \$744,000 for twelve new research grants at 10 institutions through its Comprehensive Research Program. The Comprehensive Program is the Association's long-standing research effort dating back to the 1950s. Since its inception, more than \$30 million has been reinvested in the industry, with the research conducted at more than 50 universities and federal and state facilities. The research is approved by the boards of the Association and Foundation, based on recommendations of the Foundation Research Advisory Committee. The committee evaluates research proposals to determine their value to the industry. Committee members are professional specialists in different segments of the poultry and egg industry. The Comprehensive Program research projects are as follows:

Characterization of a Virus as the Possible Cause of Superficial Pectoral Myodegeneration and Sclerosis (SPMS)

North Carolina State University (research grant made possible in part by an endowing Foundation gift from Case Farms)

Validating Current Broiler Welfare Auditing Programs and Advancing Enrichment lowa State University (research grant made possible in part by an endowing Foundation gift from Ozark Mountain Poultry)

Enhancing the Antimicrobial Efficacy of Organic Acid Blends to Kill Salmonella enterica and Campylobacter jejuni on Broiler Skin

Alabama A&M University (research grant made possible in part by an endowing Foundation gift from Ingram Farms)

Fate and Effect of Peracetic Acid in Poultry Processing Wastewater Treatment Systems Georgia Institute of Technology (research grant made possible in part by an endowing Foundation gift from Cargill)

Cage-Free Housing: Northern Fowl Mite Impact on Laying Hens Purdue University (research grant made possible in part by an endowing Foundation gift from Cal-Maine Foods)

A Single Step Poultry Wastewater Remediation for In Situ Recovery of Potable Water and Value-Added Products

University of Kansas (research grant made possible in part by an endowing Foundation gift from Pilgrim's)

Improved Fly Control on Poultry Facilities with Microbial Products Penn State University (research grant made possible in part by an endowing Foundation gift from Midwest Poultry Services)

Improving Cold Weather Foam Depopulation Operation University of Delaware (research grant made possible in part by an endowing Foundation gift from Mountaire Farms)

Evaluation of the Combined Effects of Air Movement and Reduced house Relative Humidity on Bird Health and Welfare in the Early Phase of Commercial Broiler Production University of Georgia (research grant made possible in part by an endowing Foundation gift from Wayne Farms)

Nutritional Strategies to Reduce the Incidence of Wooden Breast in Pectoralis Major Muscles in Broiler Chickens

Auburn University (research grant made possible in part by an endowing Foundation gift from Peco Foods)

Potential Impact of Litter Quality on E. coli-Associated Cellulitis in Production Turkeys in Iowa University of Georgia (research grant made possible in part by an endowing Foundation gift from the Cooper Family Foundation)

Developing and Validating a Bioelectrical Impedance Index for Rapid Detection of Woody Breast Fillets Auburn University (research grant made possible in part by an endowing Foundation gift from Claxton Poultry)

Board Research Initiative Projects Total \$286,000

Three Board Research Initiative projects, valued at \$286,000, were approved and will be conducted at three universities. The Board Research Initiative was created by the boards of USPOULTRY and the USPOULTRY Foundation to address current issues facing the poultry and egg industry. It operates alongside the long-established Comprehensive Research Program and augments the original program's effectiveness and protracted success. The Initiative focuses on critical areas of research selected by the board. Board Research Initiative projects are as follows:

Improving Broiler Breeder Flock Welfare and Reducing Stress through Early Photostimulation and Spin Feeding

University of Georgia (research grant made possible in part by an endowing Foundation gift from Dr. Don and Teresa Jackson)

A Pilot Study to Exposures of Peracetic Acid-Based Disinfectants among Poultry Processing Workers Georgia Institute of Technology (research grant made possible in part by an endowing Foundation gift from Shepard Exposition Services)

Rapid Ensiling of Hen Carcasses for Biosecure Preservation and Virus Destruction Following Depopulation Pennsylvania State University (research grant made possible in part by an endowing Foundation gift from CCF Brands)

Research Completed in 2017

 Effects of Nitrocompounds to Minimize Ammonia Emission in Broiler Litter

Project #687, Dr. Woo Kim and Dr. Casey Ritz, University of Georgia, Athens, Ga.

Development of an Improved Recombinant Infectious Laryngotracheitis Vaccine

Project #F060, Dr. Joseph Giamborne, Department of Poultry Science, Auburn University, Auburn, Ala. (research made possible in part by an endowing Foundation gift from Pilgrim's)

- Identifying the Onset of a Novel Muscle Disorder in Chickens through Differential Gene Expression and Histologic Analyses
 Project #F059,Dr. Benham Abasht, Dr. Carl Schmidt, and Dr. Erin Brannick, University of Delaware, Newark, Del.
- Production of Variant Reovirus Hyperimmune Serum for Use as a Diagnostic Tool to Further Characterize Avian Reoviruses from Clinical Cases of Tenosynovitis

Project #693, Dr. Holly Sellers, University of Georgia, Athens, Ga., and Dr. Vijay Durairaj, Boehringer Ingelheim (research made possible in part by an endowing Foundation gift from Mar-Jac Poultry)

 Molecular Characterization of Novel Enteric Viruses Circulating in Poultry in the United States

Project #684, Dr. Michael Day, U.S. Department of Agriculture – Agricultural Research Service, Athens, Ga.

 Factors Contributing to Superficial Pectoral Myodegeneration and Sclerosis ('Wooden Breast') in Broilers

Project #691, Dr. John Barnes, North Carolina State University, Raleigh, N.C. (research made possible in part by an endowing Foundation gift from Ozark Mountain Poultry)

 Evaluating Hen Behavior and Physiological Stressors during VSD for the Development of Humane Methodologies for Mass Depopulation during a Disease Outbreak

Project #BRU007, Dr. Kenneth Anderson, North Carolina State University, Raleigh, N.C.

 Development and Production of Salmonella Multi-Serotypic and Multi-Subunit Vaccines for Hens

Project #BRF002, Dr. Hung-Yueh Yeh, U.S. National Poultry Research Center, USDA ARS, Athens, Ga. (research made possible in part by an endowing Foundation gift from Cal-Maine Foods)

 Genetic Modulation of the Antimicrobial Properties of the Egg Shell Cuticle Pore Plug

Project #F070, Dr. Maxwell Hincke, University of Ottawa, Ontario, Canada (research made possible in part by an endowing Foundation gift from Midwest Poultry Services)

 Characterizing Thermal Micro-Environment during Broiler Transportation

Project #BRF001, Dr. Yi Liang, University of Arkansas, Fayetteville, Ark. (research made possible in part by an endowing Foundation gift from Prestage Farms)

 Efficacy of Breeder Hen Vaccination for Protecting Broilers from Enterococcal Spondylitis Caused by Enterococcus cecorum Project #688, Dr. Luke Borst, North Carolina State University, Raleigh, N.C.

- Development of Improved Integrated Pest Management Programs to Control Vectors of Salmonella on Hen Farms Project #BRF003, Dr. Nancy Hinkle and Dr. Brian Fairchild, University of Georgia, Athens, Ga. (research made possible in part by an endowing Foundation gift from CCF Brands)
- Effect of Density on the Behavior, Welfare, and Performance of Turkeys and Broilers

Project #BRF004, Dr. Jesse Grimes, North Carolina State University, Raleigh, N.C.

Low-Cost Solar Heater for Poultry Barns

Project #697, Dr. Sanjay Shah, North Carolina State University, Raleigh, N.C. (research made possible in part by an endowing Foundation gift from Elton and Claire Maddox)



USPOULTRY Research Program Reaches \$30 Million in Funding

The USPOULTRY research program has passed a noteworthy milestone. Combined with the USPOULTRY Foundation, more than \$30 million has been funded in research grants to meet the challenges facing the poultry and egg industry. Since the first \$5,000 grant awarded in 1963 to Dr. Allen Edgar at Auburn University to study control measures for infectious bursal disease (Gumboro), USPOULTRY's investment in research has been a significant factor in the growth and prosperity of the U.S. poultry industry.

The research program also continues to evolve. The Board Research Initiative was created in 2013 by the boards of both organizations to address specific issues identified by the directors. It operates concurrently with the traditional research funding, referred to as the Comprehensive Research Program, in which proposals are submitted for funding consideration. Research topics for the Comprehensive Program are available on the USPOULTRY website, www.uspoultry.org. A third component is Emergency Research Funding, allocated when an exceptional need arises, such as the 2015-2016 highly pathogenic avian influenza (HPAI) outbreak.

Currently, funding for the Comprehensive Research program is



appropriated in 19 topic areas at research institutions throughout the nation. The research encompasses all phases of poultry and egg production and processing and is updated every two years with input from the boards and other USPOULTRY committees. The current research priorities include animal welfare, broiler/turkey breeder management, broiler management, commercial egg production, diseases, employee safety and health, environmental management, feed mill operations, food safety, further processing, genetics, hatchery management, human nutrition, live haul, poultry nutrition, poultry housing, pullet management, breeder replacement management and processing.

"The Foundation Research Advisory Committee is the cornerstone of the research program. Committee members are specialists representing a broad spectrum of scientific disciplines and additionally have had extensive industry experience with a solid grasp on overall issues affecting the industry," commented Tom Hensley, Fieldale Farms and USPOULTRY chairman. "They dedicate numerous hours to determine the relative value of competing research proposals before making recommendations to the board for funding. Their commitment and expertise make the program the most viable and extensive operational research effort in the poultry and egg industry."

"Research is one of the four key missions of USPOULTRY's service to the industry," said John Starkey, USPOULTRY president. "Our Association and Foundation are committed to continue growing the research program and to addressing the needs of the poultry industry. We are pleased to have achieved \$30 million in research funding, but even more pleased with the issues the program has addressed over the years."

"For the last several years, about half of the research funding has come from revenue generated through the International Poultry Expo, part of the International Production & Processing Expo, and the remaining half from the Foundation. Our successful one time, capital campaign that concluded in 2015 really helped enable us to return to funding \$1 million a year in research, which is one of the pledges we made to donors during the campaign," remarked Jerry Moye, Hendrix Genetics and USPOULTRY Foundation chairman. ⁷We remain grateful to the many companies and individuals who contributed to the campaign, allowing the Foundation to raise almost \$11 million. This has also given us the ability to establish the Emergency Research Program, which funded \$550,000 in HPAI research in 2015 and just funded another \$125,000 HPAI project as a follow-up."

The USPOULTRY research program is under the direction of Dr. John Glisson, vice president of research. He can be reached at jglisson@uspoultry.org.

Diseases		\$11,391,892
Poultry Production		\$ 5,233,068
Food Safety		\$ 4,396,340
Environmental		\$ 4,031,084
Poultry Nutrition		\$ 1,091,665
Processing		\$ 1,047,278
Further Processing		\$ 1,039,701
Egg Specific Processing		\$ 874,885
Miscellaneous		\$ 661,835
Worker Health		\$ 185,581
Egg Cholesterol		\$ 153,403
	Total approximately	\$30,106,732

Research Grants by General Subject

USPOULTRY Foundation Supports 2017 National 4-H Poultry & Egg Conference

4-H'ers from around the country were excited to participate in the National 4-H Poultry & Egg Conference at the Kentucky Fair and Exposition Center in Louisville. The Conference affords these spirited young minds with a plethora of opportunities to learn about and engage with leaders in the poultry and egg industry.

Opportunities included five separate competitive events: poultry judging, chicken barbecuing, turkey barbecuing, an egg preparation demonstration and an avian bowl (a game of poultry and egg jeopardy). Poultry and egg industry leaders also participated in a Poultry Careers workshop, exposing the 4-Hers to valuable information about career and educational opportunities in the poultry and egg industry.

The Conference hosted 147 senior 4-H'ers from 26 states, allowing them to compete in events that help them learn to formulate and defend decisions, speak publicly and expand their poultry-related skills. The team from Indiana (Jarret Bailey, Logan Lemaster, Kaitlyn Melcher and Corey Miller) was named the top team overall. Pennsylvania's Madison Shaw was named the top overall individual. Barbara Jenkins, vice president of education and student programs for USPOULTRY and executive director of the USPOULTRY Foundation, attended the Conference and presented the awards. "The USPOULTRY Foundation continues its longstanding commitment of supporting student outreach programs to draw bright young people into poultry careers. The USPOULTRY Foundation has been a proud sponsor of 4-H and the National 4-H Poultry & Egg Conference for many years. We recognize that these youth are our industry's future, and our goal is to encourage them to pursue a career in the poultry and egg industry. The Foundation also sponsors other youth outreach programs, including the annual College Student Career Program, the International Student Program, the new Ph.D. Student Career Fair (co-sponsored by the Poultry Science Association Foundation), the USPOULTRY Foundation Ted Cameron National Poultry Judging Contest, recruiting grants at colleges and universities throughout the nation, and FFA," remarked Jenkins.

Support for the National 4-H Poultry & Egg Conference was made possible in part by a Foundation gift from Amick Farms.



Barbara Jenkins (right) and the National 4-H top team overall winners from Indiana: Jarret Bailey, Logan Lemaster, Kaitlyn Melcher and Corey Miller, coached by Bradley Smazenko and Andrew Werling (not shown).

USPOULTRY Foundation and the Poultry Science Association Foundation Jointly Announced the Inaugural M.S. & Ph.D. Student Career Fair

The U.S. Poultry & Egg Harold E. Ford Foundation (USPOULTRY Foundation) and the Poultry Science Association Foundation (PSA Foundation) announced the jointly sponsored inaugural M.S. & Ph.D. Student Career Fair, held during the 2018 IPPE in conjunction with the International Poultry Scientific Forum. This unique program is designed to better serve USPOULTRY member companies and allied suppliers, particularly involving, but not limited to, technology driven companies such as those in genetics, health, pharmaceutical and nutrition.

USPOULTRY, through the USPOULTRY Foundation, hosts a well-established and highly successful College Student Career Program during IPPE. The integral components of this outstanding program include interview opportunities with member companies and exhibitors for summer internship employment and entry level career positions for B.S. and M.S. students seeking employment in the poultry production, processing and allied supplier industry.

"Utilizing the strengths and resources of PSA and the USPOULTRY Foundation, this new program will target post-doctoral and Ph.D. students," said Jerry Moye, USPOULTRY Foundation chairman, who also serves on the PSA Foundation Board. "This is a great service our two organizations can provide to the poultry and allied industry, particularly those with needs in genetics, health, pharmaceutical and nutrition fields. Further, this opportunity is provided in one place at one time in conjunction with the IPSF, conveniently benefiting these exceptional students and industry companies seeking talented employees to provide for their next generation of scientific leadership."



Sandra Leaphart, human resources representative with Amick Farms, interviewing Ph.D. students during the Career Fair

In Thanks and Recognition to the Following Donors for Their Support of the USPOULTRY Foundation

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