2015

Food and Agricultural Sciences Excellence in College and University Awards Program

A Community of Scholars Honoring Excellence
INTRODUCTION

2015 has been an outstanding year for American agriculture and the academic institutions that are part of the Association of Public and Land-Grant University system, including the family of land-grant universities and non-land grant agriculture and resource related universities.

The year marks the 125th anniversary of the Second Morrill Act, which created a “broader education for the American people in the arts of peace, and especially in agriculture and mechanics arts.” The Act was signed into law on August 30, 1890.

Names like Booker T. Washington and George Washington Carver dominated the early years of education, research, and extension at the historically black 1890 land-grant universities, but the legacy of innovations they and others created are being sustained to this day by a new generation of scientists and educators.

In line with the axiom ‘user inspired science transforming lives,’ 2015 also marks the many great discoveries being made at these universities. These discoveries are being translated into innovations and solutions to address societal challenges, including nutritional security and obesity, extreme weather and droughts, climate change and diminishing water resources, and economic well-being of rural communities.

Opportunities for the next generation of leaders in food, agriculture, natural resources, human sciences, and related fields continue to abound because of the vibrant American agricultural economy. In coming years, there will be tremendous opportunities for the family of land-grant and non-land grant agriculture and resource related universities to step up to the challenge of helping develop the future scientists, extension professionals, and workforce essential to meet the food, fiber, shelter, and fuel needs of the projected 9 billion people who will inhabit our world by 2050.

The National Institute of Food and Agriculture and the Association of Public and Land-Grant Universities have partnered for well over two decades to recognize the extraordinary efforts of educators, teachers, researchers, and extension specialists who are engaged every day in addressing the challenges we face.

The Excellence in College and University Teaching Awards recognize university faculty for engaging and preparing students for the future. The Excellence in Extension Awards recognize individuals committed to programs in lifelong learning and contributions to improving communities. The National Extension Diversity Award acknowledges outstanding efforts and accomplishments within the Cooperative Extension Service to enable and sustain diverse cultures and abilities. Finally, the Multistate Research Award recognizes the collaborative efforts of state Agricultural Experiment Stations working together to address critical, regional needs. These awards honor a group of outstanding recipients who are dedicated to their fields and have made outstanding scholarly contributions. Additionally, these awards recognize the educational, extension, and research system that has long been—and will continue to be—critical to the success of our great nation.

Our congratulations to every member of the family of land-grant and non-land grant agriculture and resource related universities and to the award winners being recognized today.
Distilled down to its essence, higher education is a network of people and ideas in exchange with society at large. Seen in this light, educators serve the nexus binding the higher education community together. These remarkable individuals deserve to be recognized for the tremendous contributions they make to their institutions every single day.

Less tangible but no less valuable are the contributions scholars make to society. They inspire curiosity in their students, spark creativity through their research and propel the world forward through service to their communities.

As the presidents of the two associations dedicated to public four-year higher education, we congratulate the 2015 recipients of the Food and Agriculture Excellence Awards. They have distinguished themselves in a field of hundreds of thousands of men and women who work tirelessly to improve the world through their research, instruction and community engagement. This year’s winners are the very embodiment of excellence. As we continue to usher in an era of rapid societal and technological change, the individuals at the core of our universities promise to help shape a future that is better than our present or past. This is made possible only through their uncompromising dedication to excellence and their unrelenting commitment to improving our shared destiny. We warmly congratulate this year's winners and extend our sincere gratitude for their unwavering commitment to excellence.
Education is the movement from darkness to light.

Allan Bloom
NATIONAL TEACHING AWARDS 2015
The centerpiece of Terry Centner’s teaching involves engaging students in their education through rigorous course work and a variety of assignments. In teaching his agricultural and environmental law classes, he employs the Socratic Method. Students learn how to formulate responses to questions, observe how others handle challenging inquiries, and prepare themselves for their future careers. A student wrote, “Rarely does a professor individually engage and challenge every student in the classroom by holding everyone to a higher and more intellectual level of participation and learning.”

A leader in curriculum development, Centner proposed and helped develop three majors, three minors, one certificate, and an accelerated bachelor’s and master’s program. He is a founding member of a planning subcommittee that developed an online agricultural and environmental law certificate program for AG*IDEA, a national consortium offering online programs. As a Fulbright Senior Scholar in Germany and a Fulbright-Scotland Professor, Centner taught master’s students from around the world. His teaching includes presenting lectures at 27 foreign universities.

Centner is a national expert in agricultural and environmental law. The trademark protection for Georgia’s Vidalia Onions resulted from his research efforts. He authored a textbook, two other books, and his 150 research papers have been published in more than 95 different journals. As an Alexander-von-Humboldt research fellow in Germany, he expanded his research interests and subsequently has presented his research in 44 foreign countries.

He earned a B.S. from Cornell University, J.D. from S.U.N.Y at Buffalo, and LLM from the University of Arkansas.
Known as an inspirational and innovative educator, Garey Fox teaches undergraduate and graduate courses on surface water, groundwater, and their interaction. Fox currently holds the position of professor and Buchanan Endowed Chair in Biosystems and Agricultural Engineering at Oklahoma State University (OSU); he also serves as the Oklahoma Water Resources Center's director and Berry Endowed Professor.

Student engagement is a cornerstone of his teaching philosophy. He gets excited about interacting with students, teaching them the theories and concepts of science and engineering, and challenging them to extrapolate their learning to new problems and issues.

Fox has an exemplary record in curriculum development and outcome assessment, student recruitment, retention, advising, and mentoring students. His teaching and research programs are intricately linked through conducting and publishing teaching-related research on curriculum and program assessment; organizing and hosting an annual, nationwide Student Water Conference; hosting a National Science Foundation Research Experience for Undergraduates; and advising undergraduate research scholars.

In only 12 years in academia, he has received numerous awards: Regent’s Distinguished Research Award, American Society of Agricultural and Biological Engineers (ASABE) Educational Aids Award for a video series on Oklahoma water, ASABE Leadership Citation Award, Mortar Board Golden Torch Award, Regent’s Distinguished Teaching Award, A.W. Farrall Young Educator Award, Sterling Burks Environmental Research Award, New Holland Young Researcher Award, Halliburton Young Faculty Award, and the James Whatley Award.

Fox received B.S. and M.S. degrees from Texas A&M University and a Ph.D. from Colorado State University.
The whole purpose of education is to turn mirrors into windows.

SYDNEY J. HARRIS
Marshall Frasier is often characterized by graduating seniors as the faculty member who had greatest positive impact in their college experience. His courses are consistently recognized by students and peers as among the most challenging and demanding in the program, but balanced against a genuine desire to help students meet those challenges. His mentorship and persistent advocacy for self-efficacy in the classroom and beyond sets him apart from his peers.

In his 21 years at Colorado State University, Frasier has taught a dozen different courses at both the undergraduate and graduate level and served as coordinator of undergraduate programs in his department for the past 15 years. He is a demonstrated innovator in and out of the classroom, constantly seeking ways to better motivate and engage students in achieving the greatest take-home outcomes possible. His expertise in curricular development is sought by peers across the department and college.

Frasier’s excellence in teaching and mentorship has been recognized through a number of institutional and disciplinary awards including the College of Agricultural Sciences NACTA/Charles N. Shepardson Meritorious Teaching Award, the College’s Outstanding Service Award, CSU’s Cermak Advising Award, and both the Western Agricultural Economics Association and the Agricultural and Applied Economics Association awards for Distinguished Teaching for both Less Than Ten Years’ and More Than Ten Years’ Experience.

Frasier earned B.S. and M.S. degrees from the University of Nebraska and a Ph.D. from Washington State University.

Alan Hansen cares deeply about students and consistently empowers them to be successful. His interactive approach to classroom teaching and a strong emphasis on hands-on laboratories to illustrate real-world applications are characteristics widely valued by his students, who have highlighted his role as an excellent advisor and mentor in providing guidance ranging from course selection to career goals, internships, and jobs.

After establishing a successful academic career in South Africa, Hansen joined the University of Illinois in 1999 and has been continually recognized for excellence spanning teaching, research, and public engagement in the best tradition of the land-grant university. He has been rated as an outstanding teacher by the campus for 39 courses taught since 2000 and received a number of awards, including the College of Agricultural, Consumer, and Environmental Sciences awards for Excellence in Teaching and Undergraduate Advising and the University of Illinois Award for Excellence in Undergraduate Teaching. He is acknowledged as an international scholar in the areas of agricultural machinery systems and biofuels, having published over 100 journal articles and three textbooks.

Hansen’s contributions extend beyond the classroom with his conception of a widely acclaimed program in which University of Illinois students are teamed up with peers at the University of KwaZulu–Natal in South Africa and travel to that country to collaborate on capstone design projects and solve locally identified problems.

He earned B.S., M.S., and Ph.D. degrees from the University of KwaZulu–Natal in South Africa.
FOY D. MILLS, JR.
Professor and Program Leader
Agribusiness
Sam Houston State University

Foy Mills, Jr. is noted among students as connecting the classroom with the real world. A testament to the seamless manner in which he moves between academia and industry consulting, he is constantly “connecting the dots” between theory and practice for students. Whether it is one of his graduates producing research influencing U.S. food policy or recent graduates excitedly telling him that they have repeatedly applied skills learned in his Ag Sales and Consulting course, it is evident he is preparing society-ready graduates.

Mills has devoted his career to serving undergraduates within the non-land grant and private university systems. Currently serving as professor and program leader in agribusiness at Sam Houston State University, he previously served 23 years as a faculty member at Abilene Christian University, 10 of which were as department chair.

Mills’ passion for teaching and faculty and student mentorship has been recognized by receipt of the Non-Land-Grant Agriculture and Renewable Resources Universities’ Distinguished Educator Award and the North American Colleges and Teachers of Agriculture’s (NACTA) Distinguished Educator Award. He received NACTA’s Teaching Award of Excellence, John Deere Award, and Southern Region Outstanding Teacher Award and was recognized as a NACTA Teacher Fellow. Noted for his teaching innovations, he has also received numerous teaching and advising awards at the university and college level.

Mills earned a B.S. with honors from Lubbock Christian University, and M.S. and Ph.D. degrees from Texas Tech University. He is a certified Strengths-Based Educator.

TIMOTHY D. PAINE
Professor and Entomologist
Department of Entomology
University of California–Riverside

During his 28-year career at the University of California–Riverside (UCR), Timothy Paine has taught lecture classes ranging in size from five students in specialized graduate courses to 527 students in core introductory classes. Additionally, he and colleagues developed a class to expose advanced graduate students to approaches for developing life science courses and allow them to practice active learning and scientific teaching approaches.

Paine served as Department of Entomology chair, College of Natural and Agricultural Sciences divisional dean, and program leader for agricultural policy and pest management in the UC Division of Agriculture and Natural Resources. He has mentored teaching faculty, and as a member of the UCR Academy of Distinguished Teachers, is an organizer and participant in the campus Excellence in Teaching seminar series and First Year Faculty Teaching Excellence seminar series. Additionally, he maintains an active and internationally recognized research program.

Paine was named a National Academies Education Mentor in 2014–15 and 2015–16. He received UCR’s 2004 Academic Senate Distinguished Teaching Award and 2010 Academy of Distinguished Teachers Innovative Teaching Award and was a 2013 UCR Distinguished Professor of Teaching. The Entomological Society of America (ESA) awarded him the Pacific Branch Distinguished Achievement in Teaching Award five times and the national society award in 2013. He is a Fellow of both ESA and the American Association for the Advancement of Science.

Paine earned B.S., B.A., and Ph.D. degrees from the University of California–Davis.
An associate professor and undergraduate program coordinator in Biological and Agricultural Engineering (BAEN) at Texas A&M University, Patricia K. Smith’s teaching philosophy relies heavily on the belief that most learning occurs outside of the classroom. To that end she structures her classes in a way that students are provided with the tools they need to actively engage in their own current and lifelong learning.

During the past 15 years, she has taught eight undergraduate and graduate classes and been consistently highly ranked in her student evaluations. She is active in numerous committees across campus related to curricula and teaching, and has been the major or co-advisor for 13 graduate students and a member of over 35 graduate committees. Her teaching accomplishments have been recognized at the departmental, college, and university levels, including most recently the Association of Former Students University Level Distinguished Achievement Award in Teaching and the Cintron University Professorship for Undergraduate Teaching Excellence.

Smith’s research focuses on hydrologic modeling of mixed use watersheds and uncertainty in hydrologic modeling. She is the author or co-author of several peer reviewed publications and in 2011 she and her co-authors were selected for a superior paper award by the American Society of Agricultural and Biological Engineers (ASABE). Smith also holds chair and vice-chair positions in ASABE’s Soil and Water division committees.

Smith received B.S. and M.S. degrees from Oklahoma State University and a Ph.D. from North Carolina State University.
New Teacher Awards 2015
Courtney Alyssa Meyers  
Associate Professor  
Agricultural Communications  
Texas Tech University

Courtney Meyers possesses energy within her pedagogical style that is dynamic, intelligent, passionate, and inclusive. She teaches undergraduate and graduate courses in Web design, public relations writing, and online media. She also serves as an academic adviser, co-advisor for the Agricultural Communicators of Tomorrow student organization, and teaches a section of Texas Tech’s first-year seminar course to help freshmen develop skills for college success. Integrating service learning, social media, research, and extended travel experiences into her courses has enhanced the critical and creative thinking abilities of her students. Pushing herself and her students toward excellence in every task creates an exceptional learning environment. Her passion, talents, skills, and even her sense of humor have helped students, her colleagues, and others grow as well as receive recognitions for their achievements. Her contributions as an educator are reflected in Texas Tech’s recent distinction of ranking as the top undergraduate agricultural communications program in the nation.

Meyers was recently inducted into Texas Tech’s Teaching Academy. She received the 2014 Texas Tech President’s Excellence in Teaching Award, 2014 College of Agricultural Sciences & Natural Resources Teaching Award, and the 2013 Non-land-grant Agricultural and Renewable Resources Universities Distinguished Young Educator Award.

Meyers earned a B.S. from Kansas State University, M.S. from the University of Arkansas, and Ph.D. from the University of Florida.

Jennifer Renea Strong  
Assistant Professor  
Agricultural Leadership, Education, and Communications  
Texas A&M University

Jennifer Strong, an assistant professor of leadership in Texas A&M University’s Department of Agricultural Leadership, Education, and Communications consistently shows her passion for teaching and for students. On a daily basis, “Dr. Jen” (as the students refer to her) works on continuous improvements to course curriculum and teaching methods, building relationships with students, researching teaching methods, and inspiring students to achieve more than they would have believed themselves capable. Combining her passion for leadership with her passion for teaching, Strong has embodied Boyer’s (1990) conclusion that scholarship and teaching go hand in hand. By researching the impact of public pedagogy, she has found students assimilate course content knowledge into their lives when a direct correlation is shown. Strong is known for her integration of pop culture and current events into her courses to help show students how leadership is prevalent in their lives.

Strong is active with advancing teaching experiences university-wide. Along with the Center for Teaching Excellence, she helped create the Service-Learning Fellow program, which teaches faculty how to incorporate service learning into the classroom. She is also working with the college’s Critical Thinking Academy. Strong is the faculty advisor for the Dr. Joe Townsend ’67 Leadership Fellows. This program selects leaders from the College of Agriculture and Life Sciences and gives them direct and advanced experience in leadership and community development.

Strong earned B.S. and M.S. degrees from Texas A&M University and a Ph.D. degree from Oklahoma State University.
Universities of Excellence

As recognized by the Excellence in College and University Teaching Awards

Texas A&M University (14)
University of Illinois (14)
Kansas State University (13)
University of Florida (12)
Cornell University (10)
Iowa State University (9)
University of Connecticut (8)
University of Georgia (8)
North Carolina State University (7)
Oklahoma State University (7)
Purdue University (7)
The Ohio State University (7)
Colorado State University (6)
University of Missouri–Columbia (6)
New Mexico State University (5)
University of Arkansas at Fayetteville (5)
University of Nebraska (5)
Rutgers, The State University of New Jersey (4)
The Pennsylvania State University (4)
University of Arizona (4)
University of Idaho (4)
University of Kentucky (4)
University of Rhode Island (4)
University of Wyoming (4)
Utah State University (4)
Virginia Polytechnic Institute and State University (4)
Louisiana State University (3)
Oregon State University (3)
Texas Tech University (3)
University of California, Davis (3)
University of Massachusetts (3)
University of Minnesota (3)
University of Wisconsin–Madison (3)
Washington State University (3)
California State University, Fresno (2)
Clemson University (2)
Delaware State University (2)
Langston University (2)
Sam Houston State University (2)
South Dakota State University (2)
University of Vermont (2)
Auburn University (1)
California State Polytechnic University, Pomona (1)
California State University, Chico (1)
Florida State University (1)
Illinois State University (1)
Michigan State University (1)
Montclair State University (1)
North Carolina Agricultural and Technical State University (1)
North Dakota State University (1)
Southern University and A&M College (1)
Southwest Missouri State University (1)
Tarleton State University (1)
University of California–Riverside (1)
University of Delaware (1)
University of Hawaii (1)
University of Maryland, College Park (1)
University of Michigan (1)
University of Nevada, Reno (1)
University of North Carolina, Greensboro (1)
University of Wisconsin–River Falls (1)
West Virginia University (1)

( ) denotes number of recipients

Teaching Awards Selection Panel

Allen Wysocki
College of Agricultural and Life Sciences
University of Florida

Karen Jones
College of Agricultural Sciences
Southern Illinois University, Carbondale

Moses T. Kairo
School of Agricultural and Natural Sciences
University of Maryland Eastern Shore

Mary Holz-Clause
College of Agriculture
California State Polytechnic University, Pomona
Roll of Recipients
Excellence in College and University Teaching Awards (2004–2015 only)

National
George Acquaah
Langston University, 2007
Teresa C. Balser
University of Wisconsin, 2009
Michael J. Boehm
The Ohio State University, 2010
Donna Marie Brown
University of Wyoming, 2004
Terence J. Centner
The University of Georgia, 2015
Daniel L. Civco
University of Connecticut, 2007
John L. Crompton
Texas A&M University, 2012
Garey Fox
Oklahoma State University, 2015
Tiffany Heng-Moss
University of Nebraska–Lincoln, 2013
Shida R. Henneberry
Oklahoma State University, 2014
Prasanta K. Kalita
University of Illinois, 2005
M. Douglas Kenealy
Iowa State University, 2009
Kerry K. Litzendeg
Texas A&M University, 2011
Joshua J. Millspaugh
University of Missouri, 2008
Robert A. Milvae
University of Connecticut, 2011
Gregory Möller
University of Idaho, 2014
Gail Romberger Nonnecke
Iowa State University, 2006
Michael A. Reiter
Delaware State University, 2005
Rick D. Rudd
University of Florida, 2006
Candice Ann Shoemaker
Kansas State University, 2012
Ricky W. Telg
University of Florida, 2010
R. Elaine Turner
University of Florida, 2004
Michael Eugene Wetzstein
University of Georgia, 2013
M. Susie Whittington
The Ohio State University, 2008

North Central Region
Anna L. Ball
University of Missouri, 2014
Michael Boland
Kansas State University, 2008
C. Lee Burras
Iowa State University, 2011
Ann D. Christy
The Ohio State University, 2005
Joseph F. Donnemeyer
The Ohio State University, 2010
Allen M. Featherstone
Kansas State University, 2011
Janice Jean Haggart
North Dakota State University, 2013
Alan C. Hansen
University of Illinois at Urbana–Champaign, 2015
Richard W. Hartel
University of Wisconsin–Madison, 2011
Tiffany Marie Heng-Moss
University of Nebraska–Lincoln, 2006
Walter L. Hurley
University of Illinois, 2014
James B. Kliebenstein
Iowa State University, 2006
Laurie F. Kramer
University of Illinois, 2004
Soo-Yeun Lee
University of Illinois, Urbana–Champaign, 2013
Donald Jiann-Tyng Liu
University of Minnesota, 2007
Christian Y. Oseto
Purdue University, 2008
Excellence in College and University Teaching Awards, continued

Richard C. Schultz
Iowa State University, 2008
Michael F. Smith
University of Missouri, 2010
Janice C. Swanson
Kansas State University, 2004
Daniel U. Thomson
Kansas State University, 2012
Michel A. Watiaux
University of Wisconsin–Madison, 2009
Kimberly A. Williams
Kansas State University, 2009
Curtis R. Youngs
Iowa State University, 2014

Sarah Liberman Ash
North Carolina State University, 2007
J. Chance Brooks
Texas Tech University, 2014
David S. Buchanan
Oklahoma State University, 2006
Dale A. Coleman
Auburn University, 2011
W. Stephen Damron
Oklahoma State University, 2007
Kim E. Dooley
Texas A&M University, 2005
Jason Lee Emmert
University of Arkansas at Fayetteville, 2004
Molly Espey
Clemson University, 2012
William Lucas Flowers
North Carolina State University, 2005
Jeffory A. Hattey
Oklahoma State University, 2008
Donald Mack Johnson
University of Arkansas at Fayetteville, 2004
Michael E. Kane
University of Florida, 2009
Stanley F. Kelley
Sam Houston State University, 2012
Foy D. Mills, Jr.
Sam Houston State University, 2015
Douglas C. Needham
Oklahoma State University, 2006
Lawrence R. ‘Dick’ Oliver
University of Arkansas, 2009
Carol Elliot O’Neil
Louisiana State University, 2005
Tracy A. Rutherford
Texas A&M University, 2014
Jeffrey W. Savell
Texas A&M University, 2013
Robert L. Shewfelt
The University of Georgia, 2008
William J. Silvia
University of Kentucky, 2013
Patricia K. Smith
Texas A&M University, 2015

NORTHEAST REGION

Louis DeMont Albright
Cornell University, 2005
Kenneth P. Blemings
West Virginia University, 2012
John C. “Jack” Clausen
University of Connecticut, 2013
Ashim K. Datta
Cornell University, 2011
Paul Heinz Heinemann
The Pennsylvania State University, 2004
Thomas P. Husband
University of Rhode Island, 2007
James P. Lassoie
Cornell University, 2014
Roger Arthur LeBrun
University of Rhode Island, 2006
David A. Levitsky
Cornell University, 2009
Rama B. Radhakrishna
The Pennsylvania State University, 2010
Robert S. Tyzbir
University of Vermont, 2004

SOUTHERN REGION

Antoine J. Alston
North Carolina A&T State University, 2010
Excellence in College and University Teaching Awards, continued

George W. Wardlow
University of Arkansas at Fayetteville, 2008

Elizabeth B. Wilson
North Carolina State University, 2010

**Western Region**

Amin Ahmadzadeh
University of Idaho, 2007

Janet B. Anderson
Utah State University, 2006

Kenneth Arthur Barbarick
Colorado State University, 2004

Stephen Devadoss
University of Idaho, 2010

Thomas R. Famula
University of California, Davis, 2012

W. Marshall Frasier
Colorado State University, 2015

James A. Knight
The University of Arizona, 2007

Judith L. Li
Oregon State University, 2005

Timothy D. Paine
University of California–Riverside, 2015

Dennis T. Ray
The University of Arizona, 2009

Brian Kent Warnick
Utah State University, 2013

Karen C. Williams
University of Wyoming, 2012

Richard Stanley Zack
Washington State University, 2004

**New Teacher**

Leslie Dawn Edgar
University of Arkansas, 2013

Kellie Jo Enns
Colorado State University, 2014

Miriam Ferzli
North Carolina State University, 2011

Jason Hans
University of Kentucky, 2009

Jennifer L. Hardesty
University of Illinois, 2008

Julie Fawn Harlin
Texas A&M University, 2005

David W.W. Jones
North Carolina State University, 2013

Amy Leigh Kaleira
Iowa State University, 2007

Tracy Kitchel
University of Missouri, 2011

Neil A. Knobloch
University of Illinois at Urbana–Champaign, 2007

Roel R. Lopez
Texas A&M University, 2006

Kyle W. McGregor
Tarleton State University, 200

Courtney Alyssa Meyers
Texas Tech University, 2015

Brian E. Myers
University of Florida, 2008

Maria Navarro
The University of Georgia, 2012

Franklin Bailey Norwood
Oklahoma State University, 2005

Haley Franks Oliver
Purdue University, 2014

Michael S. Retallick
Iowa State University, 2012

T. Grady Roberts
University of Florida, 2010

Lori Unruh Snyder
Purdue University, 2009

Jennifer Renea Strong
Texas A&M University, 2015

Amanda D. Weaver
South Dakota State University, 2010
NATIONAL AWARD FOR EXCELLENCE IN EXTENSION 2015
Joe Outlaw, co-director of Texas A&M University Department of Agricultural Economic’s Agricultural and Food Policy Center (AFPC), became an extension economist in 1996, a role he still holds with the Texas A&M AgriLife Extension Service. Then, in 1997, he accepted leadership of the agency’s Financial and Risk Management (FARM) Assistance Program, which utilizes a decision-support simulation model to predict an operation’s financial performance over 10 years.

Outlaw remains involved in oversight of the FARM Assistance Program, but he took on policy education as a primary focus in 2002. His applied research and outreach programs and resources are highly regarded, particularly on the subjects of alternative technologies, renewable fuels, and various agricultural and environmental policies.

As he did with prior Farm Bills, Outlaw made critical contributions to mobilize policy educators, collaborate on curricula, develop a web-based decision aid, and conduct training to support producers nationwide in dealing with the 2014 Farm Bill. His support extends to staff of the U.S. congressional agriculture committees, for whom he often conducts analyses, prepares reports, and presents research results.

Judging by the 600-plus invited presentations he has been asked to present, Outlaw has been a highly effective educator. He has garnered more than $23.5 million in grants and contracts and has more than 350 research and extension publications.

Outlaw earned B.S., M.S., and Ph.D. degrees from Texas A&M University.
Regional Awards for Excellence in Extension
2015
A bilingual, Virginie Zoumenou, serves as program director for the 1890 Family & Consumer Sciences program (FCS) and the Expanded Food and Nutrition Education Program (EFNEP).

Zoumenou joined the University of Maryland Extension (UMES) in 2006 and has since developed, conducted, and evaluated the nutrition and health programs and research projects in three counties, reaching approximately 900 youth and 250 families annually. And, as a program director and principal investigator, she developed partnerships with 1862 and 1890 institutions and many other organizations, receiving approximately $1,500,000 in grants and authored several abstracts and peer-reviewed articles.

Starting in 2009, Zoumenou developed and implemented an ongoing successful childhood obesity prevention program for preschoolers. She initiated the Center for Obesity Prevention at UMES, serving preschoolers, their caregivers, and their siblings.

Zoumenou received the White House President’s Volunteer Service Award in 2010 and 2012 and the 2013 Robert F. Allen Symbol of H.O.P.E. Award for working with diverse populations. She serves as director-at-large for the Society of Nutrition Education and Behavior, as co-chair for the 1890 EFNEP coordinators, and is a member of several committees at the 1862 and 1890 institutions, the U.S. Department of Agriculture, and the National Institute of Food and Agriculture.

Zoumenou earned a doctorate at National University of Abidjan—Cote d’Ivoire and Ph.D. at Florida International University–Miami.

Julie Garden-Robinson develops educational programs and conducts research in the areas of nutrition, food safety, and health.

After completing a degree in dietetics with a minor in music and a master’s degree in food science, Garden-Robinson earned her doctorate in cereal chemistry and food technology, with a minor in biochemistry at North Dakota State University in Fargo. She has worked as a food and nutrition specialist since 1994, and she has used her multidisciplinary educational background in forming teams with health, nutrition and exercise sciences, education, plant sciences, horticulture, 4-H, animal science, pharmacy, sociology and 16 commodity groups, government, and professional groups.

With collaborative multistate groups, Garden-Robinson has helped secure more than $12 million in external funding and developed numerous prize-winning educational programs for people of all ages and for diverse population groups. She has written a weekly column, “Prairie Fare,” since 1997 and began writing a weekly blog in 2012.

She was recently named a Fellow of the Academy of Nutrition and Dietetics, and she is the past-national chairwoman of the Food and Nutrition Extension Education Division of the Society for Nutrition Education and Behavior. She served as president of the North Dakota Nutrition Council twice and currently serves on the Journal of Extension board and as a member of the national Chronic Disease Prevention and Management Action Team.

Garden-Robinson earned her B.S., M.S., and Ph.D. at North Dakota State University.
Changlu Wang’s work involves research, teaching, and extension in urban pest management, with a focus on developing new and improved urban pest management technologies through the study of biology, behavior, and ecology of urban pests. His goal is to identify cost-effective and environmentally friendly solutions that will immediately benefit the consumers.

In 2007, Wang began to study bed bug biology and control and became a nationally and internationally known authority on bed bugs. He is the coauthor of an award-winning invention, the Insect Interceptor Device. This device is currently one of the most effective and affordable bed bug monitors used in the United States.

Wang’s extension program delivers research-based urban pest management technologies to pest management professionals and the public through presentations, field demonstrations, and extension publications. His team has visited more than 4,000 low income homes through education, pest inspection, and free pest treatment, resulting in high level of pest reduction and pesticide use reduction. He has obtained 15 external grants from multiple sources within the last five years; published six books/book chapters, 53 peer-reviewed papers, and 21 non-peer reviewed articles; and coauthored four patents. Most of his publications are based on applied research that can be used immediately by the public.

Wang received a B.S. at Beijing Forestry University, M.S. from the Chinese Academy of Forestry, and a Ph.D. from West Virginia University.

Derrell Peel is the Charles Breedlove Professor of Agribusiness in Oklahoma State University’s (OSU) Department of Agricultural Economics. Additionally, he has served as the extension livestock marketing specialist at OSU since 1989, after previously serving as the superintendent of the Southeastern Colorado Range Research Station in Springfield, Colorado. His main extension program areas at Oklahoma State University include livestock market outlook and marketing and risk management education for livestock producers. He teaches undergraduate courses, advises graduate students, and collaborates on numerous research projects.

Peel also works in the area of international livestock and meat trade with particular focus on Mexico and Canada and the North American livestock and meat industry. He lived in Mexico on sabbatical in 2001 and has developed an extensive knowledge of the Mexican cattle and beef industry and the economics of cattle and beef trade between the United States and Mexico.

Peel is recognized nationally and internationally as an authority on livestock economics and trade. His continuous livestock market situation analysis is regularly used by the media, and he is in high demand as a conference and workshop speaker for presentations on cattle markets and trade.

Peel holds B.S. and M.S. degrees from Montana State University and a Ph.D. from the University of Illinois.
Dana Martin is recognized as a leader who exhibits resilience, vision, and ingenuity in everything she does. Her “we can do it” attitude sparks interest and maintains momentum in addressing Oregonians’ needs.

As an Oregon State University (OSU) regional administrator, Martin often works best in times of challenge as she strives to form new partnerships and expand funding opportunities to support program delivery. As a supervisor, she looks for the best in people, helping them to achieve important goals and outcomes.

Martin was appointed to her administrative position in 2011. Prior to this, she served as county staff chair with a program focus in agriculture where she developed the Small Farms program in Central Oregon. As part of the Oregon Small Farms team, she helped create the nationally acclaimed “Growing Farms: Successful Whole Farm Management” series, now an online program. Martin began her extension career in 1998 as a 4-H Youth Development faculty member.

As lead of the Government Relations and Advocacy special assignment, Martin was instrumental in providing guidance and generating enthusiasm for building strong relationships with extension’s state legislative partners. She organized and facilitated the first-ever OSU Statewide Day at the Capitol, bringing together stakeholders from across campus and the state. This effort contributed to the successful $14 million increase for the OSU Statewide Public Service Programs, the first programmatic increase adopted by the legislature since 1999.

Martin was recently honored as the 2015 recipient of the Alberta B. Johnston Award for Extension Leadership in Oregon.
To reverse unhealthy weight trends and prevent initial weight gain in children, Texas A&M AgriLife Extension educators recognized the need to develop an effective, replicable approach to broaden outreach among diverse youth and their families. In Texas, one in three children, including almost half of Hispanic children, is overweight or obese.

Collaboration and a successful grant proposal led to a pilot program and research study called Texas Grow! Eat! Go! (TGEG)—a culturally sensitive, school-based intervention that harnessed Extension assets in garden, nutrition and physical activity education, most notably from AgriLife Extension’s award-winning, bilingual Junior Master Gardener and Walk Across Texas programs. Conducted primarily in urban Title 1 elementary schools, TGEG youth enrollment was 46 percent Hispanic and 25 percent African American, with 44 percent indicating family food insecurity.

Evaluation showed significant change in children trying, consuming and preferring vegetables; increased moderate to vigorous physical activity; decreased screen time; and significant increases in water consumption and availability of fresh fruits and vegetables in the home. Obesity rates fell from 57 percent pre-intervention to 39 percent post-intervention.

This evidence-based program, which also engaged families and volunteers, provides an interdisciplinary model to reduce childhood obesity and expand outreach among targeted youth. Now the program is being introduced across Texas and nationwide through train-the-trainer workshops and an English/Spanish curriculum called “Learn! Grow! Eat! Go!” available through the international Junior Master Gardener network (http://jmgkids.us/LGEG).

Visit www.bitly/TGEGaward for more information and complete TGEG program credits.
Award for Excellence in Extension

National
Elizabeth L. Andress
The University of Georgia, 2012
G. A. ‘Art’ Barnaby, Jr.
Kansas State University, 2009
Barbara Chamberlin
New Mexico State University, 2011
Jeffrey T. Edwards
Oklahoma State University, 2013
Ronald J. Hustede
University of Kentucky, 2007
Robert L. Kallenbach
University of Missouri, 2014
Joe Outlaw
Texas A&M University, 2015
Edwin G. Smith
University of Nevada Cooperative Extension, 2006
Marilyn J. Smith
University of Nevada, 2008
Alison Van Eenennaam
University of California, Davis, 2010

1890 Region
Fitzroy ‘Roy’ D. Bullock
Tennessee State University, 2009
Kevin Crenshaw
Alabama A&M University, 2012
Henry English
University of Arkansas at Pine Bluff, 2014
David Heikes
University of Arkansas at Pine Bluff, 2010
Irene K. Lee
University of Arkansas at Pine Bluff, 2006
Thelma Sanders-Hunter
Tennessee State University, 2007
Marion F. Simon
Kentucky State University, 2013
Claudette L. Smith
North Carolina Agricultural and Technical State University, 2011
Nathan M. Stone
University of Arkansas at Pine Bluff, 2008

Virginie Zoumenou
University of Maryland, 2015

North Central Region
William J. Angell
University of Minnesota, 2009
Frederick P. Baxendale
University of Nebraska–Lincoln, 2007
John DeFrain
University of Nebraska–Lincoln, 2010
Rick Funston
University of Nebraska–Lincoln, 2014
Julie Garden-Robinson
North Dakota State University, 2015
Kimberly A. Greder
Iowa State University, 2013
Richard K. Koelsch
University of Nebraska–Lincoln, 2006
Kathleen A. Lodl
University of Nebraska–Lincoln, 2011
Richard J. Rasby
University of Nebraska–Lincoln, 2008
Fred Whitford
Purdue University, 2012

Northeast Region
Chester Arnold
University of Connecticut, 2009
Elaine Bowen
West Virginia University, 2013
Jerome L. Frecon
Rutgers, The State University of New Jersey, 2008
Elizabeth “Betsy” Greene
University of Vermont, 2011
Walter E. Kee, Jr.
University of Delaware, 2007
Barbara M. O’Neill
Rutgers, The State University of New Jersey, 2006
Chad Ripberger
Rutgers, The State University of New Jersey, 2010
I learned the value of hard work by working hard.

MARGARET MEAD
Learn as much by writing as by reading.

Lord Acton
Universities of Excellence

As recognized by the Award for Excellence in Extension

University of Nebraska–Lincoln (6)
Rutgers, The State University of New Jersey (5)
Texas A&M University (5)
University of Arkansas at Pine Bluff (4)
University of Nevada, Reno (4)
Washington State University (3)
Montana State University (2)
Oklahoma State University (2)
Oregon State University (2)
Tennessee State University (2)
University of Kentucky (2)
Alabama A&M University (1)
Clemson University (1)
Iowa State University (1)
Kansas State University (1)
Kentucky State University (1)
Louisiana State University (1)

New Mexico State University (1)
North Carolina A&T State University (1)
North Dakota State University (1)
Purdue University (1)
University of California, Davis (1)
University of Connecticut (1)
University of Delaware (1)
University of Florida (1)
University of Georgia (1)
University of Maryland (1)
University of Minnesota (1)
University of Missouri–Columbia (1)
University of Tennessee (1)
University of Vermont (1)
Utah State University (1)
West Virginia State University (1)

Universities of Excellence

As recognized by the Award for Diversity

Utah State University (3)
Michigan State University (2)
Mississippi State University (2)
Oregon State University (2)
Pennsylvania State University (2)
Texas A&M University (2)
University of California (2)
Cornell University (1)
Lincoln University (1)
Montana State University (1)

New Mexico State University (1)
Northwest Indian College (1)
University of Florida (1)
University of Illinois at Urbana–Champaign (1)
University of Maine (1)
University of Minnesota (1)
University of Missouri (1)
University of Nebraska (1)
University of Nevada (1)
University of Wisconsin (1)

() denotes number of recipients
If we knew what it was we were doing, it would not be called research, would it?

Albert Einstein
In North America, fruit tree producers continue to suffer losses due to cold temperatures, diseases, poor soil conditions, and graft incompatibility. With a highly competitive international market, consumer demand for high quality fruit, and strong pressure to reduce chemical use, fruit tree growers are seeking economically and environmentally sustainable production schemes. Many fruit tree growers are adopting high-density systems that use certain rootstocks to limit the final tree canopy size. Conflicting information about rootstocks, diverse orchard practices, and differing experimental procedures have resulted in costly planting and management errors. Rootstocks cannot be recommended unless there is coordinate, long-term research investigating their performance (e.g., productivity, fruit quality, pest resistance, and stress tolerance) and potential for profitability in a range of conditions.

Multistate Research Project NC-140 forged a viable international partnership between universities and the tree fruit community. Together, they leveraged federal and state dollars to conduct innovative research on fruit tree rootstock genetics, production, management, and economics. Over the past five years, they evaluated rootstocks of temperate-zone fruit trees from around the world, regularly measuring tree growth, root anchorage, size control, soil and climatic adaptability, and pest and disease resistance. Based on their experimental plot results, the group used state-of-the-art genomic tools and breeding programs to develop improved rootstocks for temperate-zone fruit trees. The team also developed new protocols for screening rootstocks, improved propagation techniques, and facilitated acquisition of rootstocks to accelerate their adoption among growers. In addition, NC-140 offered detailed recommendations regarding use of these new rootstocks, distributing research-based information through Extension, web sites, written material, and educational programs.

NC-140’s uniform, multi-location trials have drastically reduced evaluation time for new rootstocks from more than 40 years to just 10 years. New rootstock is available to growers sooner, and more reliable information on rootstock performance is easier to access. Selecting more suitable rootstocks has led to higher yields for producers and improved fruit quality for consumers. Over the last 30 years, fruit growers in North America have steadily transitioned to higher density orchards that take up less land, increase production efficiency, accommodate automation technology, and rely on fewer chemicals.

Monumental shifts in orchards in every U.S. state where temperate fruit trees are grown (along with parts of Canada and Mexico) can be attributed to the collaborative efforts of NC-140.
researchers, extension educators, and industry partners. NC-140 recommendations have resulted in earlier returns, greater yields, and higher fruit quality, with a financial benefit to U.S. fruit tree producers of $250,000,000. With combined state and federal investment in NC-140 of about $10,000,000, cumulative measurable benefits to the U.S. temperate tree-fruit industries will be more than $400,000,000. Less easily measured benefits, such as averted losses and enhanced environmental quality, will increase the financial value of NC-140 to well beyond $500,000,000 over the next five years.

**PARTICIPATING INSTITUTIONS**

Auburn University  
University of Arkansas  
University of California, Davis  
California Cooperative Extension  
Clemson University  
Colorado State University  
Cornell University  
University of Georgia  
University of Guelph, Ontario, Canada  
University of Idaho  
University of Illinois  
Iowa State University  
University of Kentucky  
University of Maine  
University of Maryland  
University of Massachusetts  
Michigan State University  
University of Minnesota  
University of Missouri  
New Mexico State University  
North Carolina State University  
Ohio State University  
Oregon State University  
Pennsylvania State University  
Purdue University  
Rutgers, The State University of New Jersey  
Utah State University  
Virginia Polytechnic Institute and State University  
Washington State University  
University of Wisconsin  
Agriculture and Agri-Food Canada, British Columbia, Canada  
Agriculture and Agri-food Canada, New Brunswick, Canada  
Atlantic Food and Agric-Food, Kentville, Nova Scotia, Canada  
Center for Advanced Studies in Fruit Production  
Instituto Nacional de Investigaciones Forestales  
Agricolas y Pecuarias, Mexico  
USDA–ARS  
USDA–ARS Plant Genetic Resources Unit

**EXCELLENCE IN MULTISTATE RESEARCH AWARD**

Improving Sustainability in Fruit Tree Production through Changes in Rootstock Use (NC-140), 2015  
Microirrigation for Sustainable Water Use (W-2128), 2014  
Sweetpotato Collaborators Conference NCERA 5 (IEG-14), 2013  
Response to Emerging Threat: Soybean Rust (NCERA-208), 2012  
Improving the Sustainability of Livestock and Poultry Production in the United States (S-1032), 2011  
Biological Improvement of Chestnut through Technologies that Address Management of the Species, its Pathogens, and Pests (NE-1033), 2010  
Porcine Reproductive and Regulatory Disease: Methods for Integrated Control, Prevention, and Elimination of PRRS in United States Swine Herds (NC-229), 2009
2015 Excellence in Multistate Research Award Regional Winners

Northeast Region

NC1201: Mycobacterial Diseases of Animals
Vivek Kapur, Technical Committee Chair
Gary A. Thompson, Administrative Advisor

Participating Institutions:
Agri-Food and Biosciences Institute, Belfast
Alexandria University, Egypt
Billings Gastrointestinal Association
Canadian Food Inspection Agency & University of Montreal
Central Veterinary Institute, Netherlands
Colorado State University
Cornell University
Epix Analytics
Federal University of Rio Grande do Sul, Brazil
Global Alliance for Rabies Control
KEO Consulting, Illinois
Michigan State University
Oregon Wheat Commission
Pennsylvania Cooperative Extension
Pennsylvania State University
SVM, UC Davis
University of Georgia
University of Minnesota
University of Missouri
University of Nebraska–Lincoln
University of Pennsylvania
University of Prince Edward Island, Canada
University of Tennessee
University of Vermont
University of Wisconsin
U.S. Food and Drug Administration
USDA–APHIS
USDA–APHIS–VS–CEAH
USDA–APHIS–VS–Western Region
USDA–ARS/Iowa
USDA–National Animal Disease Center
Veterinary Research Institute, Sudan
VetICE

Donn Johnson, Technical Committee Chair
Clarence Watson, Administrative Advisor

List of Participating Institutions:
Auburn University
Kansas State University
Louisiana State University
New Mexico State University
Oklahoma State University
Texas A&M University
Texas A&M AgriLife (Research and Extension)
University of Arkansas
University of Florida
University of Georgia
University of Missouri
USDA, ARS, Southeastern Fruit and Tree Nut Research Lab (SEFTNRL), Byron, GA
The Samuel Roberts Noble Foundation

Western Region

W3122: Beneficial and Adverse Effects of Natural, Bioactive Dietary Chemicals on Human Health and Food Safety
Abby Benninghoff, Committee Chair
H M Harrington, Administrative Advisor

Participating Institutions
University of Arizona
University of California—Berkley
University of California—Davis
Colorado State University
University of Hawaii
University of Illinois
Michigan State University
Mississippi State University
University of Nevada
Rutgers, The State University of New Jersey
North Dakota State University
Oregon State University
Texas Agrilife Research Center
Utah State University
University of Vermont
Washington State University
University of Wisconsin
USDA–ARS-California
USDA–ARS-Georgia
USDA–NIFA

Southern Region

S1049: Integrated Management of Pecan Arthropod Pests in the Southern U.S.
The great aim of education is not knowledge but action.

HERBERT SPENCER

2015 EXPERIMENT STATION SECTION REGIONAL EXCELLENCE IN LEADERSHIP AWARD

1890 RESEARCH DIRECTORS
Dr. Alton Thompson
Provost and Executive Vice President of Academic Affairs
Delaware State University

NORTH CENTRAL
Dr. Fred Cholick
Former Dean and Director (retired)
Kansas State University

NORTHEAST
Dr. Michael P. Hoffmann
Director
Cornell University Agricultural Experiment Station–Ithaca

SOUTHERN
Dr. Eric Young
Executive Director
Southern Association of Agricultural Experiment Station Directors

WESTERN
Dr. Ron Pardini
Professor of Biochemistry
University of Nevada Renoa
Food Systems Leadership Institute

The Food Systems Leadership Institute (FSLI) is dedicated to developing individual and institutional leadership for a twenty-first century food system. The program curriculum focuses on a series of core leadership competencies and three complementary threads: individual leadership; leading change within organizations; and understanding and influencing complex diverse food systems. This curriculum lays the groundwork for leaders who will transition food systems research, education, and outreach to broader, more holistic approaches.

FSLI is a program of the Association of Public Land-grant Universities with initial support from the W. K. Kellogg Foundation. North Carolina State University is the primary host institution, responsible for program implementation and hosting FSLI Scholars during one of their three onsite residential sessions. The Ohio State University and Cal Poly, San Luis Obispo are also partners in the FSLI, providing their expertise in leadership and food systems to the FSLI curriculum and hosting onsite residential sessions for FSLI participants.

FSLI Fellows, Cohort #9, 2013–2015

Joseph M. Anderson  
Department Head  
Agronomy  
Purdue University

Donald Conner  
Department Head  
Poultry Science  
Auburn University

Titus Awokuse  
Chair of the Department of Agricultural, Food and Resource Economics  
Michigan State University

Christopher R. Daubert  
Department Head  
Food, Bioprocessing and Nutrition Sciences  
North Carolina State University

Kim Babbitt  
Associate Dean of Academic Affairs  
College of Life Sciences and Agriculture  
University of New Hampshire

Henry Fadamiro  
Assistant Dean and Director of Global Programs  
College of Agriculture  
Auburn University

Kristina Boone  
Department Head, Professor  
Communications and Agricultural Education  
Kansas State University

Brent Hales  
Senior Associate Dean  
University of Minnesota Extension

Donna Brown  
Associate Dean and Director, Professor Academic & Student Programs  
College of Agriculture and Natural Resources  
University of Wyoming

Wendy Fink  
Associate Director  
Food, Agriculture and Natural Resources Association of Public and Land-grant Universities (APLU)

Richard Cavaletto  
Associate Dean  
College of Agriculture, Food and Environmental Sciences  
California Polytechnic State University—San Luis Obispo

Johnny D. Jones  
President  
Little Priest Tribal College

John Killefer  
Department Head  
Animal and Rangeland Sciences  
Oregon State University
FSLI Fellows, Cohort #9, 2013–2015, continued

Thomas A. Melton
Associate and Deputy Director
Cooperative Extension Service
North Carolina State University

Michael Newman
Director
School of Human Sciences
College of Agriculture and Life Sciences
Mississippi State University

Michael Orth
Department Chair and Professor
Animal and Food Sciences
Texas Tech University

Kirk Pomper
Interim Land Grant Director
Kentucky State University

Murali Reddy
Section Manager
Abbott Nutrition

Curt Rom
Director, Bumpers College Honors Program
Co-Director for Agriculture and Rural Sustainability
University of Arkansas

Peter L. Ryan
Associate Provost and Professor
Mississippi State University

Martin Sancho-Madriz
Department Chair and FST Program Director
Human Nutrition and Food Science
California State Polytechnic University, Pomona

Tom Scott
Professor and Dean Emeritus
College of Agriculture, Forestry & Life Sciences
Clemson University

Jane Schuh
Interim Dean, College of Business
Associate Director, ND Agricultural Experiment Station
Associate Professor of Immunology
North Dakota State University

Scott A. Shearer
Chair
Food, Agriculture & Biological Engineering
The Ohio State University

Celvia E. Stovall
Associate Director
Alabama Cooperative Extension System
Alabama A&M University

Ben West
Western Region Director
University of Tennessee Extension
University of Tennessee Institute of Agriculture

Allen Wysocki
Associate Dean
College of Agricultural and Life Sciences
University of Florida
Dr. Gale Buchanan, dean and director emeritus of the University of Georgia’s College of Agricultural and Environmental Sciences in Tifton, Georgia, has had a remarkable career. From professor and researcher at Auburn University, to leadership positions with both the Alabama Agricultural Experiment Station and the Georgia Agricultural Experiment Stations, to dean and director at the University of Georgia, to professor at the National Environmental Sound Production Agriculture Laboratory, Buchanan has served in agricultural leadership roles in education and research for years.

Buchanan served on the Board of Directors of the Sunbelt Agricultural Exposition and the Georgia Agrirama Foundation Board. Additionally, he was nominated by President Bush to serve as Under Secretary for Research, Education, and Economics in the U.S. Department of Agriculture and confirmed for this position by the United States Senate on May 2006. With the passage of the 2008 Farm Bill, he assumed the responsibility of USDA Chief Scientist, along with that of Under Secretary for Research, Education and Economics.

After retiring from academia and after completing his appointment as Chief Scientist and Under Secretary in the USDA, he remained active in several academic areas. This included serving as senior author on a Council for Agricultural Science & Technology (CAST) Issue Paper No. 45 entitled, “Agricultural Productivity Strategies for the Future: Addressing U.S. and Global Challenges.” He also served for two years as chair of the CAST Board of Trustees and as co-chair for the Research Section of Solutions from the Land that was sponsored by the United Nations Foundation, Conservation International, the Nature Conservancy and the Farm Foundation. He has also given a number of lectures at various university, industry, commodity, and trade venues.

Buchanan served the national agricultural system in numerous capacities including chair of the Southern Section of Agricultural Experiment Station Directors, chair of NASULGC Administrative Heads Section, NASULGC chair of the board on Agriculture Budget Committee, and chair of the NASULGC Board on Agriculture Assembly. He co-authored a book, “Leadership in Agriculture: Case Studies for a New Generation,” published in 2013. Another book, “Feeding the World—Agricultural Research in the 21st Century” will be published later this year, and still another book, “Role of Branch Sites for Agricultural Research” is under review. Other writing projects are currently underway.

He received B.S. and M.S. degrees from the University of Florida and a Ph.D. from Iowa State University.