2009 Texas A&M Distinguished Texan in Agriculture Award (Posthumous)

The Texas A&M Distinguished Texan in Agriculture Award honors agricultural leaders in Texas for outstanding leadership and significant contributions to Texas agriculture.

Norman E. Borlaug
March 25, 1914 – September 12, 2009

Norman E. Borlaug’s career was dedicated to using science to combat world hunger. Until shortly before his death in September 2009 at age 95, he traveled internationally working tirelessly for improvements in agricultural science and food policy. He received the 1970 Nobel Peace Prize for developing high-yielding, disease-resistant wheat varieties that helped prevent famine in developing countries throughout the world.

Early in his career, he became a scientist for the Cooperative Wheat Research and Production Program and introduced scientific methods for raising crops to prevent famine in Mexico. In 1964, he was appointed director of the program at what had become the International Maize and Wheat Improvement Center (CIMMYT) near Mexico City. Dr. Borlaug and the interns he taught took scientific farming methods around the globe, preventing mass famine throughout South and East Asia and saving the lives of millions. In 1984, Dr. Borlaug joined Texas A&M’s Department of Soil and Crop Sciences as Distinguished Professor of International Agriculture, dividing his time between College Station each fall to teach and at CIMMYT in Mexico each spring where he continued research and participation in global efforts to reduce world hunger. He created the World Food Prize in 1986 to give recognition to the work of scientists and humanitarians who have contributed to advancing international agriculture and fighting world hunger. His most recent international work involved cooperative efforts with CIMMYT in Mexico and the Sasakawa Africa Association program. In 2007, Dr. Borlaug received the Congressional Gold Medal, the highest civilian honor of the United States. This capped a string of major awards and honors throughout his scientific and humanitarian career. He is one of only five people to date to win the Nobel Peace Prize, the Presidential Medal of Freedom, and the Congressional Gold Medal. The other four are Nelson Mandela, Elie Wiesel, Mother Teresa, and Dr. Martin Luther King, Jr.
2009 Regents Professor Awards

The Board of Regents established the Regents Professor Award program in 1996 to recognize and honor faculty members who have made exemplary contributions to their university, agency, or health science center and to the people of Texas. Nominees must be full-time faculty members who have held the rank of professor or equivalent in the A&M System for at least five years and have produced a distinguished record of teaching, research, and other scholarly activities. Regents Professor Awards were conferred during the December meeting of the Board of Regents. The following two individuals were nominated for recognition by Texas A&M University and Texas A&M AgriLife.

Dr. John L. Crompton
Distinguished Professor
Department of Recreation, Park and Tourism Sciences
Texas A&M University

Dr. Crompton’s career at Texas A&M University began in 1974 as a research associate, technician, and lecturer in the Department of Recreation and Parks. Today, he is one of the most recognized academics in his field. Sixteen of the books he has written are used nationwide in university-level parks and recreation courses. Dr. Crompton, who became a Distinguished Professor in 2000, also is the most published scholar in the world in the fields of tourism and parks, and recreation/leisure studies. He was one of the first to use research teams in parks and recreation and in tourism studies. Many of his graduate students have used this team approach as a model in their own careers. Influential in many professional organizations, he has been the president or chair of six such organizations, including the Society of Park and Recreation Educators (1985-1986), the American Academy for Park and Recreation Administration (1994), and the Academy of Leisure Sciences (1999-2000). He is a two-time board member of the National Recreation and Park Association (1990-1993, 1996-2002), and in 2006 was elected to a lifetime term on the board of the National Recreation Foundation, which typically distributes about $2 million in grants. During his long and distinguished career, Dr. Crompton has received numerous awards including, in 1999, the Cornelius Amory Pugsley Medal, which recognizes outstanding contributions to the parks and conservation field. In 2004, the city of College Station named a 15-acre park after him.

Dr. Kerry K. Litzenberg
Eppright Professor of Undergraduate Teaching Excellence
Department of Agricultural Economics
Texas A&M University

Since joining the Department of Agricultural Economics faculty in 1978, Dr. Litzenberg has become internationally recognized in the agribusiness community. He is a founding member and fellow of the International Food and Agribusiness Management Association, a global agribusiness association, and has served as director of the Food and Agricultural Education Information System, a national database on agricultural educational programs that has traced educational trends in food and agriculture sciences for more than a decade. In the classroom, Dr. Litzenberg is an acclaimed instructor, having taught more than 114 sections of eight different courses to nearly 9,000 students since 1978. Dr. Litzenberg also has received numerous awards from professional, student, and education groups including the Texas Ag Industries Association Education Achievement Award in 2009, the Minnie Stevens Piper Professorship in 2003, the Eppright Professorship in 2002, the Distinguished Achievement Award for Teaching at the college level from The Association of Former Students in 1997, the Outstanding Teacher Award from the Agricultural Economics and Agribusiness Association in 1996, the Texas A&M Vice Chancellor’s Award in Excellence for Student Counseling and Relations in 1996, and an award of distinction by the Academic Programs Section of the National Association of State Universities and Land Grant Colleges in 1994. A globally recognized agribusiness scholar who has been published in scholarly journals, he has served as referee for many such publications including the American Journal of Agricultural Economics, Southern Journal of Agricultural Economics, Agribusiness, and the Journal of Agriculture and Applied Economics.
2009 Regents Fellow Service Awards

The Board of Regents established the Regents Fellow Service Award in 1997 to recognize exceptional service by professionals in A&M System agencies. Nominees must be full-time, senior-level research or service delivery professionals, with at least five years of service in the A&M System, who have demonstrated exceptional leadership in programs or projects with significant statewide impact. Regents Fellow Service Awards were conferred during the December meeting of the Board of Regents. The following two individuals were nominated for recognition by Texas AgriLife Extension Service.

Dr. Bruce J. Lesikar
Professor and Extension Agricultural Engineer
Associate Department Head and Extension Program Leader,
Department of Biological and Agricultural Engineering
Texas AgriLife Extension Service

In his 17 years with the Texas AgriLife Extension Service, Dr. Lesikar has established nationally recognized education programs in the efficient use and management of water resources. Today, curricula and training materials developed by Dr. Lesikar are in wide use and his applied research program helps generate and disseminate information critical to those who manage water resources. In the past five years, Dr. Lesikar has delivered 435 different educational programs to clientele across the country—including installers, site evaluators, designers, and inspectors of on-site wastewater treatment systems. He has authored and co-authored 26 Extension publications and five popular articles, and developed five educational videos and eight curriculum documents dealing with water and wastewater. He also has written seven short-course manuals describing different technologies for managing wastewater. Dr. Lesikar pioneered the establishment of training centers in El Paso, Weslaco, and Bryan to demonstrate the latest technologies in wastewater management. As a distinguished water management leader and educator, Dr. Lesikar has received numerous honors and awards, including being named Young Engineer of the Year in 1997 and receiving the Nolan Mitchell Young Extension Worker Award from the American Society of Agricultural and Biological Engineers in 2002. He was named 2003-2004 Man of the Year by the National Association of Wastewater Transporters and in 2005 received AgriLife Extension’s highest employee recognition, the Superior Service Award. In 2008, he received the Vice Chancellor’s Award in Excellence honoring his work as an Extension Specialist.

Dr. Tom A. “Andy” Vestal
Professor and Extension Specialist
Homeland Security and Emergency Management
Department of Agricultural Leadership, Education and Communications
Texas AgriLife Extension Service

Dr. Vestal came to College Station in 1994 after 17 years as a county Extension agent throughout Texas. He has since focused on developing improved methods for informing and educating consumers, other educators, and policymakers about biotechnology-related innovations and potential threats to the agriculture industry. Dr. Vestal has designed and published CD-ROMs and Web pages containing lessons on everything from DNA sequencing to U.S. regulatory food safety processes. In 2005, he was tapped to lead a new agency-wide initiative to build a homeland security and emergency management capacity within the Texas AgriLife Extension Service. His role is to guide and train AgriLife Extension officials in emergency management procedures. Dr. Vestal’s expertise and effectiveness in organizational communications has resulted in invitations to serve on numerous governing boards and advisory panels. He has served with the San Antonio Livestock Exposition, Greater San Antonio Chamber of Commerce, Governor’s Biotechnology Initiative Education Subcommittee, and the Department of Homeland Security Animal Biosecurity Advisory Panel, among others. He has achieved a substantial record of scholarly work and reached out to a mass audience with 186 television appearances and 231 articles. In addition, he has made 182 keynote educational presentations to international, national, state, and local audiences since 1990.
Institute of Medicine Honors Dr. Joanne Lupton

Dr. Joanne Lupton
Distinguished Professor of Nutrition and Food Science
Department of Nutrition and Food Science
Texas A&M University

Dr. Lupton has been named a member of the National Academy of Sciences’ Institute of Medicine, one of 65 new members and five foreign associates elected this year. Election to the Institute is one of the highest honors in fields of health and medicine and recognizes individuals who have demonstrated outstanding professional achievement and commitment to service. Founded in 1970, the Institute of Medicine is recognized as a national resource for independent, scientifically informed analysis and recommendations on health issues. Lupton’s widely published research focuses on the effect of diet on colon physiology and colon cancer with a particular emphasis on dietary fiber and n-3 fatty acids known as the “healthy fats.” She has been recognized with numerous academic honors at Texas A&M including University Fellow, Regents Professor, and the William W. Allen Endowed Chair in Nutrition.

2009 Texas Forest Service Director’s Awards

The following awards were presented by the Texas Forest Service during an Agency Personnel Meeting in Crockett, Texas on November 17, 2009.

2009 D. A. “Andy” Anderson I&E Award

The D. A. “Andy” Anderson I&E Award honors Texas Forest Service employees for outstanding work in helping Texans understand the importance of conserving Texas’ forest resources through wise use, protection, and reforestation practices.

Susie Shockley
Staff Assistant II
Lufkin, Texas

2009 Director’s Award for Field Technician

The Director’s Award for Field Technician recognizes a technician who demonstrates exceptional activities in support of district objectives as evidenced by outstanding subject matter knowledge and competency, creative or innovative approaches to improve the effectiveness and efficiency of their unit, as well as a positive impact on the activities of other units, Service personnel, and the general public.

Carleton Howeth
Resource Specialist III
Henderson, Texas

2009 Director’s Award for Technical Forestry

The Director’s Award for Technical Forestry identifies a Texas Forest Service forester who excels in delivering efficient service programs, displays outstanding subject-matter knowledge and competency, exhibits strong professional qualities, develops creative and innovative service programs, and is recognized by colleagues and the public as an outstanding forestry professional.

Pete Smith
Partnership Coordinator
College Station, Texas
2009 Texas Forest Service Director’s Awards

2009 Director’s Award for Support Staff

The Director’s Award for Support Staff acknowledges individuals in a support position who demonstrate exceptional accomplishments in support of agency objectives.

**Director’s Award for Support Staff (Office)**

**Sarah Brooks**  
Office Associate III  
La Grange, Texas

**Director’s Award for Support Staff (Field)**

**Malinda Fry**  
Staff Assistant I  
Lufkin, Texas

**Director’s Award for Support Staff (Professional)**

**Gary Lacox**  
Fire Administration Department Head  
Lufkin, Texas

2009 Director’s Team Effort Award

The Director’s Team Effort Award recognizes team efforts that result in improved working conditions or increased efficiency/effectiveness.

**Forest Expo Planning Committee**

Steven Cooke, District Forester I, Livingston, Texas  
Jake Donellan, Staff Forester I, Huntsville, Texas  
Rich Dottellis, District Forester II, Kountze, Texas  
Jared Goodman, District Forester I, Kirbyville, Texas  
Holly Huffman, Communications Specialist, College Station, Texas  
Justice Jones, Mitigation and Prevention Coordinator II, Conroe, Texas  
Dawn Vollmer, Staff Forester I, Conroe, Texas  
John Warner, District Forester, Conroe, Texas
2009 Vice Chancellor’s Awards in Excellence

Teaching

Undergraduate
Michael A. Arnold
Department of Horticultural Sciences

Graduate
Andy Herring
Department of Animal Science (McGregor Research Center)

Student Counseling and Relations
Rebecca L. Hapes
Department of Entomology

Graduate Student Teaching
Adrienne L. Brundage
Department of Entomology

Research

Individual, On-Campus
Bhimanagouda S. Patil
Department of Horticultural Sciences

Individual, Off-Campus
Gerald W. Evers
Texas AgriLife Research and Extension Center at Overton

Research Team
McGregor Bovine Genomics Team
Clare A. Gill (Animal Science)
Andy D. Herring (Animal Science)
Rhonda K. Miller (Animal Science)
Penny K. Riggs (Animal Science)
James O. Sanders (Animal Science)
Jason Sawyer (Animal Science)

Graduate Student Research
Nicole C. Burdick
Department of Animal Science

Extension Education and Service

(continued)

Specialist
Jenna D. Anding
Department of Nutrition and Food Science

Extension Team
Hurricane Ike Saltwater Intrusion Response Team
Larry A. Redmon (Soil and Crop Sciences)
Tony L. Provin (Soil and Crop Sciences)
Mark L. McFarland (Soil and Crop Sciences)
John L. Pitt (Soil and Crop Sciences)
Jeffery S. Waskom (Soil and Crop Sciences)
Tyler S. Fitzgerald (Soil and Crop Sciences)

Support Personnel

Administrative, On-Campus
Dawn L. Miles
Department of Wildlife and Fisheries Sciences

Clerical, On-Campus
Vicki Lynn Heard
Department of Agricultural Economics

Clerical/Administrative, Off-Campus
Carrie L. Huntzinger
Texas AgriLife Extension Service – Bexar County (District 10)

Research, On-Campus
Darrell L. Fannin
Department of Recreation, Park and Tourism Sciences

Research, Off-Campus
Margaret J. Parsons
Texas AgriLife Research and Extension Center at Overton

Technical/Extension, On-Campus
Blair Fannin
AgriLife Communications

Technical/Extension, Off-Campus
Mark S. Nunez
Texas AgriLife Research and Extension Center at Beaumont
Professional Services

**Special Services**
William P. Hawke  
AgriLife Contracts and Grants

**Forester, Texas Forest Service**
Peter D. Smith  
Texas Forest Service – Forest Resource Development

System Academic Partnership
Manuel Piña, Jr.  
Department of Agricultural Leadership, Education and Communication

Industry/Agency

**Pecos Algae Team**
Louis R. Brown (Texas AgriLife Research – Pecos)  
Jola Brown (Texas AgriLife Research – Pecos)  
Mike A. Foster (Texas AgriLife Research – Pecos)  
Jimmy Martinez (Texas AgriLife Research – Pecos)

Diversity
Dirk B. Hays  
Department of Soil and Crop Sciences

International Involvement
Gary C. Peterson  
Texas AgriLife Research and Extension Center at Lubbock

Administration
John P. Nichols  
Department of Agricultural Economics
## 2010 Partnership Awards
### Texas AgriLife Extension Service

Established in 1999, the Extension Partnership Award recognizes vital alliances with agencies, organizations, and others beyond The Texas A&M University System. We honor those partners whose dedicated collaboration and support have significantly enhanced the outreach and impact of AgriLife Extension programs for the people of Texas.

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### Juan Francisco Livas Cantú

Economic expert. Skilled negotiator. Governmental leader. Consummate host. Each describes a trait of the multifaceted Juan Francisco Livas Cantú. The son of a former governor of the Mexican state of Nuevo Leon, Livas has followed in his father’s public service footsteps. He graduated from Texas A&M University in 1980, is an engineer by trade, and is the former director of Fidecitrus, a trust fund created to support the development of Nuevo Leon’s citrus valley. Today, Livas is the Under secretary of economic development for Nuevo Leon. A beef cattle rancher and vegetable producer, Livas was instrumental in involving AgriLife Extension in high-level talks centered on the controversial topics of border relations and the crossing of cattle from Mexico to the United States. His mission to bolster the agricultural economy of his state has resulted in several Extension-organized group trips to Nuevo Leon, where he has provided not only educational seminars, but extensive tours and cultural entertainment.

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### South Texas Cotton and Grain Association

When it comes to longtime partnership and unwavering support, the Texas AgriLife Extension Service has a true friend in the South Texas Cotton and Grain Association (STCGA). Founded in 1963 by South Texas farm growers and allied industry leaders, the STCGA has spent more than four decades keeping producers informed of issues that could potentially impact South Texas agriculture. In doing so, the group makes annual contributions to a multitude of Extension cotton conferences and tours, Integrated Pest Management projects, farm and ranch shows, and educational events in the Coastal Bend. Keeping true to its mission of representing producers and allied industry in all matters of importance, the STCGA has continually placed a high priority on Extension educational programs as a means of maintaining sustainability in the region’s agricultural sector.

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### Military Partnerships Project for 4-H and Operation Military Kids

In 2005, roughly 64,000 young people between the ages of 8 and 18 were members of military families in Texas. Four years later, that number had skyrocketed to 103,500. Through a joint effort with the national Military Partnerships Project for 4-H and Operation Military Kids (OMK), the Texas 4-H and Youth Development Program has seized the opportunity to touch these young lives. With contributions of some $1.5 million in grant funds since 2003, OMK has helped to expand the 4-H clover to underserved military youth and to develop local community networks to support military families during times of deployment. OMK fully funds a 4-H Extension faculty position to support military youth program efforts—an endeavor that is bolstered by eight other 4-H/OMK partnership staff members across the state. Since this partnership began, 4-H enrollment of military youth in Texas has grown from 313 in 2003 to more than 5,600 today.

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### Texas Master Gardener Association

Among the most highly acclaimed AgriLife Extension endeavors is the Texas Master Gardener Program. Currently boasting 6,000 volunteers, program participants annually contribute more than 450,000 hours of service to the state. But far from operating in a vacuum, the program owes a great deal of its success to the support of the Texas Master Gardener Association (TMGA). The TMGA is a charitable, educational organization that provides direct support to the Texas Master Gardener program. It likewise coordinates a centralized exchange network for County Master Gardener associations across the state by providing guidance and financial support for an annual training conference, creating a monthly newsletter, promoting statewide projects at the county level, and overseeing and funding the Texas Master Gardener Awards and Recognition Program. Thirty-six county associations are tax-exempt thanks to a group exemption umbrella obtained by the TMGA. Through its organizational, financial, and educational efforts, the TMGA is improving Texans’ quality of life through horticulture.
Extension in the City Award

The Honorable Judith Zaffirini, Texas Senate, District 21

Senator Judith Zaffirini is the second-highest ranking senator in the Texas legislature and the highest-ranking among the Senate’s female, Hispanic, and border-region members. Her distinguished leadership and service have earned the highest regard and gratitude from AgriLife Extension employees across the state of Texas and particularly Extension educators in urban Webb and Bexar counties.

Senator Zaffirini currently chairs the Senate’s Higher Education Committee and serves on the Finance, Health and Human Services, Economic Development, and Administration Committees. She is an unwavering champion for families, youth, and agricultural producers. She provides constant support and encouragement to students involved in 4-H and speaks at numerous Extension-organized events. Her strong leadership as a legislator helps to ensure the delivery of Extension programming statewide and spurs the success of our vital and growing urban outreach.

2010 Undergraduate/Graduate Student Research Poster Competition

UNDERGRADUATE STUDENTS

Poster 1: Bryan J. Agado—Texas A&M University
Evolution of Exit Velocity in the Suckling Brahman Calf
Faculty Member: Ronald Randal
Department: Animal Science

Poster 2: Rock Demarais—Texas A&M University
Isolation of Anthocyanins from ‘Betasweet’ Carrots by Detection-Based Flash Chromatography
Faculty Member: Bhimanagouda Patil
Department: Horticultural Sciences

Poster 3: Lauren Lindley—Texas A&M University
Real-Time PCR Detection of Xylella fastidiosa, Bacterial Leaf Scorch of Oleander from the Bryan-College Station Area
Faculty Member: Kevin Ong
Department: Plant Pathology and Microbiology

Poster 4: Leanne M. Wiley—Texas A&M University – Kingsville
Soil Treatment Methods Did Not Improve Native Plant Performance
Faculty Member: Kimberly C. McCuistion
Department: Animal Science

GRADUATE STUDENTS

Poster 5: Mohamed Ali—Texas A&M University – College Station
Response of Wild Tetraploid Wheat (Triticum turgidum L.) to Heat Stress
Faculty Member: Amir Ibrahim
Department: Soil and Crop Sciences

GRADUATE STUDENTS

Poster 6: April Anderson—Texas A&M University – Corpus Christi
Ocean Acidification and Global Warming Affect Early Development of the Sea Urchin Lytechinus variegatus
Faculty Member: Addison Lawrence
Department: Biology

Poster 7: Gabriela Angel-Morales—Texas A&M University
Curcuminoids (Curcuma longa L.) Attenuate Inflammation Through Inhibition of TLR-4 Receptor and Interacts with Associated MicroRNAs in Human Umbilical Vein Endothelial Cells (HUVEC)
Faculty Member: Susanne Talcott
Department: Nutrition and Food Science

Poster 8: Maritza Anguiano—Texas A&M University
Bio-reduction of the Organic Mercury Concentration from Muscle of Cultured Tuna
Faculty Member: Delbert M. Gatlin III
Department: Wildlife and Fisheries Sciences

Poster 9: Haejin Bae—Texas A&M University
Content of Ascorbic Acid, Flavonoids, and Capsaicinoids Affected by Maturity Stage among Pepper Cultivars
Faculty Member: Bhimanagouda S. Patil
Department: Horticultural Sciences

Poster 10: Adrian Bandolon—Texas A&M University – Corpus Christi
The Effect of Starvation on Chemotaxis of the Sea Urchin Lytechinus variegatus (Lamark)
Faculty Member: Addison Lawrence
Department: Mariculture Laboratory

2010 Texas A&M AgriLife Conference
Poster Competition continued

**Poster 11:** Francis Beecher — Texas A&M University
Identification of Grain Quality Defined Heat Tolerance QTLs in Wheat (Triticum aestivum)
Faculty Member: Dirk B. Hays
Department: Soil and Crop Sciences

**Poster 12:** Thomas Becker — Texas A&M University
Firm-Level Economic Analysis of Commercial Algae Production as an Input for Biofuel Production in Pecos, TX
Faculty Member: Edward Rister
Department: Agricultural Economics

**Poster 13:** Meredith Bilek — Texas A&M University
Sodium and Chloride Fluxes from Sub-Watersheds of the Upper Trinity from 1980 to 2000
Faculty Member: Jacqueline Aitkenhead-Peterson
Department: Soil and Crop Science

**Poster 14:** Hanna Bobrovnyk — Texas A&M University
Inhibition and Drug Design of AroD, a Protein Involved in Tuberculosis Causing Pathway
Faculty Member: James Sacchettini
Department: Biochemistry

**Poster 15:** Sara Boswell — Texas A&M University
Effect of Mixing Times on Gluten-Free Bread Quality
Faculty Member: Lloyd Rooney
Department: Soil and Crop Sciences

**Poster 16:** Nicole Burdick — Texas A&M University
Acute Modulation of Cytokine Gene Expression in Bovine Peripheral Blood Mononuclear cells (PBMCs) by Endogenous Cortisol
Faculty Member: Thomas H. Welsh, Jr.
Department: Animal Science

**Poster 17:** Justin Butcher — Texas A&M University
Investigating Phytochemicals in a Unique F2 Pepper (Capsicum spp.) Family to Promote Human Health
Faculty Member: Kevin Crosby
Department: Horticultural Sciences

**Poster 18:** Elsa María Cárdenas-Canales — Texas A&M University — Kingsville
Nilgai Antelope as a Possible Carrier of Babesia spp. and Cattle Fever Ticks in Northern México
Faculty Member: Alfonso Ortega
Department: Animal and Wildlife Science

**Poster 19:** Priyanka Chaudhary — Texas A&M University
Grapefruit Degreening Influence on Health-Promoting Limonoids and Flavanoids
Faculty Member: Bhimanagouda Patil
Department: Horticultural Sciences

**Poster 20:** Kranthi Chebrolu — Texas A&M University
Optimized Analytical Method for Quantification of Ascorbic Acid and Dehydroascorbic Acid in Grapefruits
Faculty Member: Bhimanagouda Patil
Department: Horticultural Sciences

**Poster 21:** Chul Choi — Texas A&M University
An Analysis of the Impacts of Animal Diseases on the U.S. Meat Market
Faculty Member: David Bessler
Department: Agricultural Economics

**Poster 22:** Erin E. Cord — Texas A&M University – Kingsville
Effects of Invasive Grasses on Arthropod Abundance and Diversity
Faculty Member: Andrea R. Litt
Department: Caesar Kleberg Wildlife Research Institute

**Poster 23:** Armando Del Follo-Martinez — Texas A&M University
Red Wine Polyphenols Have Anti-Cancer Effect in Colon Cancer and Target Oncogenic MicroRNA-27a as a Potential Underlying Mechanism
Faculty Member: Susanne Talcott
Department: Nutrition and Food Science

**Poster 24:** Sadie Dunn — Texas A&M University
Influence of Probiotic Administration, Coccidiosis Vaccination, Eimeria Challenge, or Ionophore Administration on Gut Morphology in Broilers
Faculty Member: Morgan B. Farnell
Department: Poultry Science

**Poster 25:** Marissa Coral Dworaczyk — Texas A&M University
The Effect of Exercise-Induced Heat Stress on Ovarian Dynamics in the Mare
Faculty Member: Martha M. Vogelsang
Department: Animal Science

**Poster 26:** Mark Hamann — Texas A&M University
Prediction of Seed and Fiber Quality for Long-Term Storage of Seed Cotton
Faculty Member: Calvin Parnell, Jr.
Department: Biological and Agricultural Engineering

**Poster 27:** Lauren Hulsman — Texas A&M University
Identification of a Major Gene That Interacts with MC1R to Modify Black Coat Color in a Nellore-Angus F₂ Population
Faculty Member: Clare A. Gill
Department: Animal Science
Poster 28: Derek Husmoen—Texas A&M University
Comparative Water Stress Responses Between Bermudagrass Cultivars
Faculty Member: Don Vietor
Department: Soil and Crop Sciences

Poster 29: Babitha Jampala—Texas A&M University
Designer Sorghum: Combining the High Digestible and Waxy Grain Traits for Improved Nutrition, Bioethanol, Beer, Food and Feed Products
Faculty Member: Dirk B. Hays
Department: Soil and Crop Sciences

Poster 30: Name: Tom Jondiko—Texas A&M University
Effects of Resistant Starch on the Physical, Sensory and Textural Properties of Wheat Flour Tortillas
Faculty Member: Joseph Awika
Department: Soil and Crop Sciences

Poster 31: Grihalakshmi Kakani—Texas A&M University
A Comparative Analysis of Susceptibility of Salmonella to Chlorine and Chlorine dioxide
Faculty Member: Suresh D. Pillai
Department: Poultry Science

Poster 32: Shahriar Kibriya—Texas A&M University
Effect of Food and Agricultural Aid on Intra-International Conflict and Poverty
Faculty Member: Edwin Price
Department: Agricultural Economics

Poster 33: Jinhee Kim—Texas A&M University
Obacunone Inhibits Proliferation of Human Breast Cancer Cells Mediated by Suppressing p38 MAP Kinase Activation
Faculty Member: Bhimanagouda S. Patil
Department: Horticultural Sciences

Poster 34: Brandon Klim—Texas A&M University – Corpus Christi
Effect of a Short Chain Fructooligosaccharide (scFOS®) Prebiotic on the Growth, Survival, and Immune Response of the Pacific White Shrimp, Litopenaeus vannamei
Faculty Member: Addison L. Lawrence
Department: Mariculture

Poster 35: Srirama R. Krishnareddy—Texas A&M University
Phytochrome Regulated Branching Inhibition is Mediated by Auxin
Faculty Member: Scott A. Finlayson
Department: Soil and Crop Sciences

Poster 36: Li Kui—Texas A&M University
Ecohydrological Controls on the Distribution and Performance of Giant Reed (Arundo donax) in the Rio Grande Valley
Faculty Member: Georgianne Moore
Department: Ecosystem Science and Management

Poster 37: Ya-Jung Lee—Texas A&M University
Delivery of Macromolecules into Live Cells by Simple Co-Incubation with Viral Peptides
Faculty Member: Jean-Philippe Pellois
Department: Biochemistry and Biophysics

Poster 38: Andrew J. Leidner—Texas A&M University
Overview of the Water Market for the Middle and Lower Portions of the Texas Rio Grande Basin
Faculty Member: M. Edward Rister
Department: Agricultural Economics

Poster 39: Jorge Lozano—Texas A&M University – Kingsville
Lethal Yellowing and Date Palm Lethal Decline in South Texas
Faculty Member: Greta Schuster
Department: Agronomy and Resource Sciences

Poster 40: Joe W. Mask—Texas A&M University
A Collaborated Effort between Agriculture, Family and Consumer Science, and 4-H to Educate Urban Citizens about the Importance of Agriculture
Faculty Member: Chris Boleman
Department: Agricultural Leadership, Education, and Communication

Poster 41: Katherine G. McElhany—Texas A&M University
Potential Bias Associated with DNA Extraction Kits Used in Microbial Metagenomic Analysis of Food.
Faculty Member: Suresh Pillai
Department: Poultry Science

Poster 42: Will A. McLaughlin—Texas A&M University
Critical Factors Affecting Logistics Costs Associated with Cellulosic Biomass Production
Faculty Member: M. Edward Rister
Department: Agricultural Economics

Poster 43: Suheb Mohammed—West Texas A&M University
A Comparative Study of Clump vs. Row Geometry on Dryland Maize Yield and Harvest Index
Faculty Member: Dirk Hays
Department: Plant Breeding
Poster Competition continued

**Poster 44: Anh Nguyen**—Texas A&M University
Institutions Serving International Agricultural Development and the Issue of Food Security in Developing Countries: Exploring an Integrated Approach
Faculty Member: Glen Shinn
Department: Agricultural Leadership, Education, and Communication

**Poster 45: Kyle K. Olsen**—Texas A&M University
Inquiry into Natural Gas Spot Markets of U.S. and Canada
Faculty Member: James W. Mjelde
Department: Agricultural Economics

**Poster 46: Camilo Pohlenz**—Texas A&M University
A Preliminary Study of Digestive Enzyme Ontogeny and Amino Acid Composition of Larval Yellowfin Tuna, Thunnus albacares
Faculty Members: Delbert Gatlin, III, and Alejandro Buentello
Department: Wildlife and Fisheries Sciences

**Poster 47: Xiaoyan Qin**—Texas A&M University
Fundamentals and U.S. Natural Gas Price Dynamics
Faculty Members: David Bessler and David Leatham
Department: Agricultural Economics

**Poster 48: Edinalvo Rabaioli Camargo**—Texas A&M University
Rice Response and Weed Control from Tank-Mix Applications of Saflufenacil and Imazethapyr
Faculty Member: Scott Senseman
Department: Soil and Crop Sciences

**Poster 49: Charlotte Rambo**—Texas A&M University
Application of High Energy Electron Beam and Chemical Oxidants to Destroy Estrogenic Activity in Wastewater Effluent and Biosolids
Faculty Member: Suresh Pillai
Department: Poultry Science

**Poster 50: Bharath K. Reddy**—West Texas A&M University
Impact of Planting Geometry on Transpiration Efficiency in Grain Sorghum
Faculty Member: B.A. Stewart
Department: Dryland Agriculture Institute

**Poster 51: Yan Ren**—Texas A&M University
Establishing an Agrobacterium-Mediated Transformation System for Western-Shipper Cantaloupe and Honey-Dew Melons (Cucumis melo L.)
Faculty Member: Kevin Crosby
Department: Horticultural Sciences

**Poster 52: Samuel G. Roberson**—Texas A&M University
Sibling Camp: The Role of Structures and Processes of Social Relationships in Relation to Good Health
Faculty Member: Alex McIntosh
Department: Recreation, Park and Tourism Sciences

**Poster 53: Madahy Romero**—Texas A&M University – Kingsville
Impact of Altering Harvesting Methods on the Adsorption of Atrazine to Sugarcane Residues
Faculty Member: Shad D. Nelson
Department: Agronomy and Resource Sciences

**Poster 54: Katie L. Rothlisberger**—Texas A&M University
Oilseed Meal Effects on the Germination and Survival of Crop and Weed Species
Faculty Members: Frank Hons and Terry Gentry
Department: Soil and Crop Sciences

**Poster 55: Daniel Salas**—Texas A&M University – Kingsville
Survey of Light Brown Apple Moth in South Texas
Faculty Member: Greta Schuster
Department: Agronomy

**Poster 56: Ronnie Schnell**—Texas A&M University
Interaction of Phosphorus and Dissolved Organic Carbon in Runoff and Drainage Water
Faculty Member: Donald Vietor
Department: Soil and Crop Sciences

**Poster 57: Sarah Skrivanek**—Texas A&M University
Screening Pecan Germplasm for Resistance to Blackmargined Aphid
Faculty Member: Marvin Harris
Department: Entomology

**Poster 58: Anil Somenahally**—Texas A&M University
Impact of Two Water Management Systems for Rice Production on Arsenic Speciation and Microbial Populations
Faculty Member: Terry Gentry
Department: Soil and Crop Sciences

**Poster 59: Meghyn Stalcup**—Texas A&M University
Epicuticular Wax as a Predictor of Drought Tolerance in Inbred Maize
Faculty Member: Seth Murray
Department: Soil and Crop Sciences
Poster 60: Kendre Stringfellow—Texas A&M University
Impact of a Commercially Available Probiotic on the Immune Response of Broilers Vaccinated and Challenged with Eimeria
Faculty Member: Morgan Farnell
Department: Poultry Science

Poster 61: Mary Thelen—Texas A&M University
Evaluation of EPA Approved FRM PM_{10} Samplers
Faculty Member: W. Brock Faulkner
Department: Biological and Agricultural Engineering

Poster 62: Erica Trojacek—Texas A&M University
Identification of Candidate Genes Responsible for the Assembly of Apolipoprotein-B Containing Lipoproteins in an Avian System using Estrogen Induction
Faculty Member: Rosemary Walzem
Department: Poultry Science

Poster 63: Rammohan Uckoo—Texas A&M University
Rapid Method for the Purification of Polymethoxyflavones from Clementine Mandarins using Automated Flash Chromatography
Faculty Member: Bhimmanagouda S. Patil
Department: Soil and Crop Sciences

Poster 64: Dustin R. Wing—Texas A&M University – Corpus Christi
Meeting Disease Challenges in Aquaculture with Alternatives to Antibiotics: Pristine Aqua{\textsuperscript{Tm}} (Ralco Nutrition, Inc.) and Hemicellulose Fiber used to Improve Immune Characteristics, Gut Morphology and Microbial Community in the Gastrointestinal System of Pacific White Shrimp, Litopenaeus vannamei
Faculty Member: Addison L. Lawrence
Department: Soil and Crop Sciences

Poster 65: Jatara Wise—Texas A&M University
Relationship of Feedstock Composition and Pyrolysis Temperature to Bio-Char Yield
Faculty Member: Don Vietor
Department: Soil and Crop Sciences

Poster 66: Xiuzhi Wu—Texas A&M University
Effects of Ground Beef Fatty Acid Composition on HDL Functionality in Healthy Men
Faculty Member: Rosemary Walzem
Department: Poultry Science

Poster 67: Jin Xu—Texas A&M University
Is U.S. Farmland Overpriced or Reasonably Compensated? Dynamic Land Price Models with Wealth Observed
Faculty Member: David Leatham
Department: Agricultural Economics

Poster 68: William F Zanolini—Texas A&M University
The Effects of the 4-H Livestock Ambassador Short Course on Senior 4-H Youth and the Perceived Impact on Long-Term Life Skills and Career Development
Faculty Member: Christopher T. Boleman
Department: Agricultural Leadership, Education, and Communication

Poster 69: Brijesh Angira—West Texas A&M University
Effects of Plant Geometries on Corn Biomass and Grain Yields, Harvest Index, and Transpiration Efficiency
Faculty Member: B. A. Stewart
Department: Agricultural Sciences
2009 Director's Excellence Awards
Texas Veterinary Medical Diagnostic Laboratory

As the Quality Assurance Manager for TVMDL, Jordan Brod understands that the foundation of a reputable laboratory begins with an established quality system that encompasses solid policies and procedures. He actively collaborates with TVMDL personnel to review and improve processes, publish protocols, verify procedures, and close corrective actions. Known for his expertise in using new programs and document management platforms, Jordan's initiative impacts every task he performs. He meets with every new hire to discuss quality policies and procedures and provide training specific to their areas of responsibility. His leadership skills are evident in his participation on the Quality Management Committee and Employee Advisory Council, which he co-chairs. Brod has over ten years experience at TVMDL and is an active member of the American Association of Veterinary Laboratory Diagnosticians (AAVLD) and its Quality Assurance Committee.

Dr. Alfonso Clavijo is a world-renowned diagnostic virologist and molecular biologist with over 18 years experience in working with foreign animal diseases, diagnostics, test development, and validation. As Assistant Agency Director for Diagnostic Programs at TVMDL, Dr. Clavijo has worked tirelessly to integrate and oversee testing procedures throughout the agency. He has successfully led an effort to review and align over 100 agency standard operating procedures, thus improving quality and safety programs in all agency laboratories. He has been instrumental in working with the USDA to implement new programs for zoonotic and foreign animal disease surveillance. In addition, his high-impact applied research has resulted in cutting-edge diagnostic tools for the farmed deer industry. Most recently, his efforts in test development during the H1N1 influenza outbreak propelled TVMDL into a leadership role in the protection of the nation's public health sector. Dr. Clavijo, with financial help from the Texas Legislature, has begun work with national and international partners to validate new technologies that will aid in rapid detection and control of tickborne diseases in various animals, including cattle and horses. He works tirelessly to develop interdisciplinary teams both internal and external to TVMDL to solve the issues facing the animal industries of Texas and the world.

As a student worker in TVMDL's Pathology Department, Dalynda Machac supports veterinary pathologists as she prepares test samples, enters case information, and archives materials. Machac began work with TVMDL during her freshman year of her undergraduate career and is now in her second year at Texas A&M University's College of Veterinary Medicine. A highly valued employee, she is trusted to train new employees and recommend new procedures, using her vast knowledge of anatomy and pathology to fulfill the mission of her section. A dependable, bright, and innovative member of the TVMDL team, Machac serves as a role model for all employees and will undoubtedly be a future leader in her profession.
2009 Superior Service Awards
Texas AgriLife Extension Service

County Extension Agents
Brant Baugh, Extension Agent-Integrated Pest Management, Lubbock County
Starla Garlick, CEA-4-H and Youth Development, Jefferson County
Shirley Gerald, CEA-Family and Consumer Sciences, Hamilton County
Marion Ross, CEA-Family and Consumer Sciences, Tarrant County
David Winkler, CEA-Agriculture and Natural Resources, Bosque County
Sarah Womble, CEA-Family and Consumer Sciences, Victoria County

Extension Specialist
Juan Anciso, Associate Professor and Extension Specialist-Vegetables
Guy Fipps, Professor and Extension Specialist-Irrigation and Water Management

Extension Program Specialist
Paul Pope, Extension Program Specialist-Evaluation

Extension Associate/Assistant/Technician
Rebecca “Becky” Ham, Goliad County
Dan Hanselka, Agricultural Economics

Teams
Hurricane Ike Saltwater Intrusion Response Team
Tyler Fitzgerald, CEA-Agriculture and Natural Resources, Chambers County
Mark McFarland, Professor and Extension Soil Fertility Specialist, Soil and Crop Sciences
John Pitt, Extension Associate, Soil and Crop Sciences
Tony Provin, Associate Professor and Extension Soil Chemist, Soil and Crop Sciences
Larry Redmon, Professor and Extension Forage Specialist, Soil and Crop Sciences
Jeffery Waskom, Extension Assistant, Soil and Crop Sciences

Red River Child Care Conference Team
Kathryn Carnes, CEA-Family and Consumer Sciences, Archer County
Sherri Halsell, CEA-Family and Consumer Sciences, Clay County
Elsie Lacy, CEA-Family and Consumer Sciences, Montague County
Vanessa Selby, CEA-Family and Consumer Sciences, Wichita County
Penny Warren, CEA-Family and Consumer Sciences, Baylor County

Texas Crop and Weather Report Team
Maribel Alonzo, Senior Office Assistant, District 10
Mary Ellen Battle, Office Assistant, District 4
Martha Bloom, Senior Office Assistant, District 12
Robert Burns, Communications Specialist
Michelle Coffman, Assistant Office Manager, District 2
Ronda Fisher, Senior Office Assistant, District 1
Ruthie Gibbs, Office Manager, District 9
Faye Hill, Senior Office Assistant, District 4
Barbara Moretich, Office Manager, District 11
Noemi Navarrete, Senior Office Assistant, District 6
Mary Lynn Nelms, Senior Office Assistant, District 7
Vickie Norton, Office Manager, District 8
Debbie Poole, Office Manager, District 5
Shirley Watts, Office Manager, District 3 (retired)

Texas 4-H Kidz with Biz Ideaz Multi-District Team
Caroline Cruz, CEA-Urban Youth Development, Montgomery County
Orlando Flores, EA-Extension Program, El Paso County
Maggie Johnson, CEA-Family and Consumer Sciences, Williamson County
Michelle Mihalek, CEA-4-H and Youth Development, Montgomery County
Sheryl Nolen, CEA-Urban Youth Development, Harris County
Jimmy Rodgers, CEA-4-H and Youth Development, El Paso County
David Wright, CEA-4-H and Youth Development, Williamson County
2009 Superior Service Awards
Texas AgriLife Extension Service continued

Teams, continued

Wheatheart Wheat Conference Team
Kyle Barnett, CEA-Agriculture and Natural Resources, Hemphill County
Brent Bean, Professor and Extension Agronomist, Soil and Crop Sciences
Tom Benton, CEA-Agriculture and Natural Resources, Hutchinson County (retired)
J. R. Sprague, CEA-Agriculture and Natural Resources, Lipscomb County
Scott Strawn, CEA-Agriculture and Natural Resources, Ochiltree County
Burt Williams, CEA-Agriculture and Natural Resources, Hansford County

Barbara Storz, CEA-Horticulture, Hidalgo County

Office Support
Caroline Gleaton, Office Associate, Agricultural Economics
Tanya Gunnels, Business Coordinator; Agricultural Leadership, Education, and Communications
Becky James, Administrative Secretary, Collin County (retired)
Geneva Pender, Administrative Assistant, Coryell County

Administrator/Manager
Dale Fritz, District Extension Administrator, District 9

Distinguished Career
Gary Clayton, CEA-Agriculture and Natural Resources, Wise County
Stephen Amosson, Professor and Extension Economist, Agricultural Economics

Unit
Military Program

Volunteerism
Derek Scasta, CEA-Agriculture and Natural Resources, Navarro County

2009 Epsilon Sigma Phi Awards

Southern Region Awards
Mid-Career: Cheryl Newberry, Extension Program Specialist-4-H
Diversity-Individual: Dolores Sandmann, CEA-Nutrition and Health, Travis County
Diversity-Team: Elizabeth Trejo, JoLynn Jennings, and Abneshia Steele, CEAs-Family and Consumer Sciences, Harris County

Team Award: Sandy Fry, CEA-Family and Consumer Sciences, Fort Bend County; and Marilyn Simmons, CEA-Family and Consumer Sciences, Galveston County

Meritorious Support Service:
Peggy Coleman, Secretary, Jefferson County
Helen Mueller, Administrative Assistant, Galveston County
Mary Staff, Administrative Assistant, Fort Bend County

Early Career Award:
Alice Kirk, Extension Program Specialist
Joe Mask, CEA-Agricultural and Natural Resources, Fort Bend County
John Park, Associate Professor and Extension Economist-Marketing and Policy

Mid-Career Award:
Stan Bevers, Professor and Extension Economist-Management
Julie Smith, CEA-Family and Consumer Sciences, Borden County

Alpha Zeta Chapter Awards
Friend of Extension: Jack Wendt, rice grower and industry leader
Visionary Leadership: Ed Smith, Director
Continued Excellence: Marilyn Simmons, CEA-Family and Consumer Sciences, Galveston County

Diversity–Individual: Flora Williams, CEA-Family and Consumer Sciences, Grimes County

Team Award: Sandy Fry, CEA-Family and Consumer Sciences, Fort Bend County; and Marilyn Simmons, CEA-Family and Consumer Sciences, Galveston County

Meritorious Support Service:
Peggy Coleman, Secretary, Jefferson County
Helen Mueller, Administrative Assistant, Galveston County
Mary Staff, Administrative Assistant, Fort Bend County

Early Career Award:
Alice Kirk, Extension Program Specialist
Joe Mask, CEA-Agricultural and Natural Resources, Fort Bend County
John Park, Associate Professor and Extension Economist-Marketing and Policy

Mid-Career Award:
Stan Bevers, Professor and Extension Economist-Management
Julie Smith, CEA-Family and Consumer Sciences, Borden County
2009 Epsilon Sigma Phi Awards continued

Distinguished Service Award:
Mike Heimer, CEA-Montgomery County
William Johnson, CEA-Horticulture, Galveston County
Vincent Mannino, County Extension Director, Fort Bend County

25-Year Tenure Award:
Dwight Don Callis, CEA-4-H and Youth Development, Fort Bend County
Sandy Fry, CEA-Family and Consumer Sciences, Fort Bend County
Vincent Mannino, County Extension Director, Fort Bend County
2009 Faculty Fellows  
Texas AgriLife Research

Theodore H. Friend

Dr. Friend is the intellectual leader of a research program with national and international impacts on decisions regarding animal well-being issues. His research is often the scientific basis on which legislators and other decision makers rely to respond to public concerns regarding practices in animal agriculture. Results from his studies have impacted regulations concerning transportation, management, or housing to improve the well-being of horses, swine, cattle, and poultry, as well as circus elephants and tigers. Existing regulations for the transport of slaughter horses in the U.S. and Canada are based on research from Dr. Friend’s laboratory, and he was instrumental in initiating the Humane Sustainable Dairy Project that investigates animal well-being and health-related issues on large dairy farms. Some of his current investigations study improvements to the ventilation and design of cattle trucks to reduce the stress of long distance transport and the use of alfalfa-based molt diets in hens to improve well-being and reduce the shedding of pathogens. In the past five years, Dr. Friend has successfully directed the graduate studies of 13 graduate students. He is the co-founder and a major participant in a campus-wide seminar group on cognitive ethology, “Brains, Learning, and Behavior,” which receives annual funding from the Glasscock Center for Humanities Research for speakers. He has authored 20 publications in refereed journals, 16 in non-peer-reviewed publications, and authored two book chapters. Also in the past five years, he has served as the principal or co-principal investigator on 12 grants totaling or each more than $700,000 and as investigator on 11 other grants. Dr. Friend has served on the editorial board of the Journal of Applied Animal Behaviour Science and is a reviewer for five other scientific journals. He has testified before the U.S. Congress regarding animal well-being issues and has been interviewed by ABC, CNN, HBO, and National Geographic Explorer. Although he fields numerous consulting calls from agriculture industry groups, private citizens, and animal welfare groups, two of his advisory roles are unique to Texas A&M: he helps the Elephant Walk planning committee ensure that the elephants brought in for Elephant Walk are exhibited in a safe and appropriate manner, and he advises the Parsons Mounted Cavalry on the transport of their horses.

Gerard Kyle

Dr. Kyle has developed a highly regarded research program that examines relationships between people and natural resources. The National Science Foundation, the U.S. Forest Service, the National Park Service, Australia’s Great Barrier Reef Marine Park Authority and several Texas river authorities have funded his work. His research has helped public land management agencies address a variety of issues threatening the health and sustainability of their resources. Over the past five years, an emerging line of study has been Dr. Kyle’s research examining the social carrying capacity of lake systems within river authorities’ (i.e., Lower Colorado River Authority, Blanco-Guadalupe River Authority, Sabine River Authority, Brazos River Authority) water management and hydroelectric schemes. These river authorities are increasingly challenged to provide quality recreation experiences while maintaining water supply and providing electricity to residents—mandates that often conflict with one another. Dr. Kyle developed the Human Dimensions of Natural Resources Laboratory within the Department of Recreation, Park and Tourism Sciences (RPTS). Research in this lab addresses natural resource management issues through the lens of the social and behavioral sciences. As one of the top three most productive scholars in RPTS over the last five years, Dr. Kyle has published 31 peer-reviewed and 15 non-peer-reviewed publications and given 41 presentations at scientific conferences. He has an enviable record of $1,233,670 extramural research awards. He raised $352,900 in external research grants to support graduate student funding; acquired funding from the Great Barrier Reef Marine Park Authority to support Ph.D. students’ data
collection in northern Queensland, Australia; and consistently includes graduate students in his research program. He has served on numerous steering committees, organized several national level research meetings, and has served as an editor on four research journals.

Megha N. Parajulee

Dr. Parajulee’s research in the area of cotton entomology is important to the viability of cotton production in the Southern High Plains of Texas where more than 3.5 million acres are planted each year. His research accomplishments include establishing a boll safe threshold after flowering that can reduce late-season insecticide use for controlling Lygus. The molecular characterization of the region’s Lygus species which was developed by his research group provides markers for future genetic research studies. Other studies include how to lower production costs and increase producers’ bottom line by reducing insecticide usage and by increasing yields with certain cotton varieties. Dr. Parajulee has supervised nine students toward completion of their master’s degrees and currently has five master’s and two Ph.D. students under his direction. His mentoring provided over $23,000 in scholarship aid for students. In the last five years, he has authored more than 35 peer-reviewed journal articles, seven invited refereed publications, 70 non-peer-reviewed publications, and one book chapter. He edited the insect research section of the proceeding for the World Cotton Research Conference, submitted numerous papers and abstracts, and presented 41 invitational papers at national and international meetings. Dr. Parajulee has received 70 external and 27 internal competitive grants totaling over $5.3 million. His numerous service activities include serving as chair for international affairs for the Entomological Society of America, president of the Society of Southwestern Entomologists, and as a member of the International Organization for Biological Control.

Senior Faculty Fellow

Thomas W. Boutton

Dr. Boutton has developed an internationally recognized research program in the biogeochemistry of grassland and savanna ecosystems. During the past five years, his research program has focused primarily on the effects of land-cover/land-use change on ecosystem biogeochemistry. One of the first scientists to develop and apply stable isotope methodologies in ecology, biogeochemistry, soil science, and agronomy, Boutton established and currently directs the state-of-the-art Stable Isotope Biogeochemistry Laboratory at Texas A&M University. In the past five years he has served as principal or co-principal investigator for more than $3.2 million in competitive grants from the National Science Foundation, Department of Energy, NASA, and USDA. During this same time, his research was documented in 25 refereed journal articles in top-tier publications. In recognition of his research accomplishments, Dr. Boutton has been named a Fellow of the Soil Science Society of America, Fellow of the American Society of Agronomy, Faculty Fellow of Texas AgriLife Research, and has received the Outstanding Achievement Award from the Society for Range Management. He has worked with federal science agencies to determine research-funding priorities by serving as an advisory panel member for the National Science Foundation Directorate of Biological Sciences, the U.S. Climate Change Science Program, the National Ecological Observatory Network Program, and the Carbon Cycle Management Program of the U.S. National Science and Technology Council. His research program continues to be a magnet for high quality graduate students in ecosystem science and management. All of his students in the past five years have entered TAMU as Regents, Graduate Merit, or Graduate Diversity Fellows. In recognition of his accomplishments as a teacher and mentor, Dr. Boutton received the Outstanding Graduate Professor Award for 2005-2006 from the Department of Rangeland Ecology and Management.